JAMES E. BICKFORD
SECRETARY



PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601

April 3, 2000

Deborah D. Dewey, Vice President
Western Kentucky Energy Corporation
P.O. Box 1518
Henderson, Kentucky 42419-1518

Re: KPDES No.: KY0054836
Western KY Energy Corp-Wilson
Ohio County, Kentucky

Dear Ms. Dewey:

Our records indicate that your Kentucky Pollutant Discharge Elimination System (KPDES) permit is due to expire on October 31, 2000. According to KPDES Regulation 401 KAR 5:060, "any person with a currently effective permit shall submit a new application at least 180 days before the expiration of the existing permit...". **The due date for your permit renewal application is April 30, 2000.**

Please complete the enclosed application forms and return to the KPDES Branch, Division of Water, at the above address by the indicated due date. Applications received after the due date are in violation of 401 KAR 5:060, Section 1 and could result in enforcement action being taken.

If you have any questions regarding the completion of these forms, please contact me at (502) 564-2225, extension 465.

Sincerely,

Courtney Seitz

**Courtney Seitz, Supervisor**
Inventory and Data Management Section
KPDES Branch
Division of Water

CS:LCC:lcc
Enclosures
c: Bowling Green Regional Office
Division of Water Files

WESTERN KENTUCKY ENERGY

Western Kentucky Energy Corp.
145 N. Main Street
P. O. Box 1518
Henderson, KY 42419-1518
270-844-6000
270-844-6048 FAX

Courtney Seitz
Inventory and Data Management Section
KPDES Branch
Division of Water
Frankfort Office Park
14 Reilly Rd.
Frankfort KY 40601

April 25, 2000

Re: KPDES No: KY0054836

Dear Mr. Seitz

Please find enclosed a permit renewal application for Western Kentucky Energy's D.B. Wilson power plant. The application is complete except for section V. The samples are in the process of being collected and McCoy Laboratories will complete the analysis. I will complete part V upon receipt of the analysis from McCoy Laboratories and forward the form to your attention. Western Kentucky Energy is also contemplating changing a discharge location. Discharge 003 may be rerouted to discharge into the wastewater clarifier and out 001. This change is still under review and a decision is expected within 45 days. I will provide Larry Sowder with the final decision. The check for the application fee is attached to the application for Coleman Station ( KY0001937)

If you have any questions please feel free to call me at 270-844-6031 or e-mail to tom.shaw@lgeenergy.com.

Sincerely,

Thomas L. Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

THIS DOCUMENT IS PRINTED IN TWO COLORS. DO NOT ACCEPT UNLESS BLUE AND GREEN ARE PRESENT.

WESTERN KENTUCKY ENERGY

A SUBSIDIARY OF LG&E ENERGY

Western Kentucky Energy Corp
P.O. Box 1518
145 N. Main Street
Henderson, KY 42419-1518

60-162 / 433

PNC Bank, Kentucky
Louisville, KY

VOID AFTER 90 DAYS

NO. 109401

| DATE | NET AMOUNT |
|---|---|
| 20-APR-00 | $*****1,280.00 |

PAY One Thousand Two Hundred Eighty Dollars And 00 Cents**********

C. D. Markel
SIGNATURE

COUNTERSIGNED

TO THE ORDER OF
KENTUCKY STATE TREASURER
14 REILLY RD
DIVISION OF WATER
FRANKFORT, KY 40601

⑈0109401⑈ ⑆043301627⑆ 1008271299⑈

SUPPLEMENTAL INFORMATION
WESTERN KENTUCKY ENERGY CORPORATION
D. B. WILSON STATION

## INTRODUCTION .

Western Kentucky Energy Corporation's D. B. Wilson Station, located in Ohio County, Kentucky, south of Livermore and west of Centertown near the Green and Rough Rivers, has one 420 megawatt (MW) coal-fired steam electric generating unit. This unit went into commercial operation November, 1986.

The following is a description of the water treatment systems being utilized at this facility. Included in the description of the systems are the expected flows, in-plant water usage, and treatment processes. A schematic water flow diagram is included, and should be referred to when reviewing the information below.

## INTAKE WATER TREATMENT

Makeup water is withdrawn from the Green River from a concrete and steel water intake structure, located on the Green River near mile marker No. 74.1. This structure consists of bar and travel screens to handle the physical screening of the system. The intake makeup is fed Sodium Bromide and Chlorine to prevent biological fouling of the condenser. A pipeline transfers the intake water to a treatment system that clarifies the water before further processing occurs. The average annual intake water requirements are 6.08 MGD. Intermittent blowdown from this treatment system (clarifiers) goes to the on site wastewater pond.

The intake structure is located on the Green River, 11.2 miles upstream of the Calhoun Gauging Station and 24.7 miles downstream of the Paradise Gauging Station.

## COOLING TOWER SYSTEM

A turbine-generator requires a closed-cycle circulating water system to convey waste heat from the steam condenser to the cooling tower. Heat from the condenser will be released to the atmosphere by evaporative and convective processes in the cooling tower. Makeup water, which will replace losses by evaporation, drift, and blowdown, will be supplied from the river water intake clarifier. Maximum recirculating flow for the cooling tower is approximately 180,000 GPM. The circulating cooling tower water will be used as makeup to the FGD system and the plant service water system. The makeup for these two systems will exceed the required amount of cooling tower blowdown necessary to maintain the concentration of dissolved solids at acceptable limits. Therefore additional makeup will come from the river makeup clarifier and waste impoundments ponds.

Average annual cooling tower blowdown is approximately 0.19 MGD, cooling tower makeup is 5.57 MGD, and cooling tower evaporative losses are 4.53 MGD.

Various chemicals will be added if necessary in order to control scaling, corrosion, and to adjust the pH. In addition a non-oxidizing biocide is added to the cooling tower circulating water to control algae growth. The cooling tower blowdown discharge is then delayed approximately 24 hours to allow for additional decay of biocide residual.

**BOILER FEEDWATER TREATMENT SYSTEM**

From the river clarifier, water is transferred to the water treatment plant for the purpose of producing high quality boiler feedwater. This high quality water replaces boiler water lost due to blowdown, soot blowing and losses through steam vents. The boiler feedwater treatment system includes activated carbon units; cation, anion and mixed bed ion exchange demineralizer; acid and caustic regeneration with a neutralization tank. Regeneration waste is approximately 0.011 MGD.

Approximately 0.052 MGD of condensate water is produced through the demineralizer of which a small percentage (0.008 MGD) will leave the boiler as boiler blowdown, and discharge to the wastewater pond. .

**CONDENSATE (BOILER FEEDWATER) POLISHER SYSTEM**

Condensate water coming from the boiler hotwell is treated using deep bed condensate polishers. These polishers remove suspended and dissolved material from the hotwell condensate. This process permits rapid unit startup and also provides protection against impurities during normal operation.

Major components of the condensate polishing system include mixed bed ion exchange demineralizer, resin traps and a resin regeneration facility. The remainder of the demineralized makeup water is used for regeneration of the polishers.

**POTABLE WATER SYSTEM**

The source for the potable water system is the river clarifier of which passes through gravity filters inside the potable water plant. This water is then chlorinated before flowing throughout the plant site then drained back to a package sewage treatment plant. This plant is designed to handle approximately 0.015 MGD. Effluent from the sewage treatment plant goes to a ditch which flows to the site stormwater pond that discharges to Elk Creek. Elk Creek ultimately discharges to the Green River.

**SERVICE WATER SYSTEM**

The service water system provides miscellaneous uses of water throughout this facility, such as equipment seals, floor washings, air preheater rinses, and boiler acid cleaning. All plant service water comes from the service water basin located beside

the cooling tower. Source water for this basin comes from the river clarifier through a service water makeup line, and cooling tower blowdown. Refer to the water balance diagram for flow data.

## WASTEWATER TREATMENT POND

A wastewater pond was created to hold and treat wastewater, and stormwater runoff coming from the plant area. Major wastewater effluents coming from the plant site, and discharging into this pond are as follows:

Backwashes and regeneration waste
Metal cleaning waste
Bottom ash system
Boiler blowdown
Equipment seal effluents
Coal and material storage runoff
Turbine building floor drains
Stack drains
Plant site runoff

Effluent from this pond is through a wastewater clarifier system which is chemically treated using coagulants and flocculants in order to precipitate solids. If necessary the pH is adjusted with either an acid or caustic. If the effluent is not within permit limits the wastewater system is placed in a recirculation mode. See water balance diagram and Table I for flow and rainfall data.

## ROOF AND YARD DRAINAGE

Rainfall runoff from the plant yard area and structures will be collected by the yard drain system and directed to one of two runoff basins. Treatment for solids removal, if necessary will occur before being discharged to Elk Creek.

## COAL AND MATERIAL STORAGE RUNOFF

Rainfall runoff from the coal pile material storage area is directed to the coal pile runoff pond located across highway 85 from the plant site. Effluent from this pond will be directed to the wastewater pond. Normally this pond does not discharge. Refer to Table I for calculated rainfall data.

## BOTTOM ASH SYSTEM

A dry bottom ash conveyor type system is used to transport bottom ash with minimal amount of water. Blowdown from this system is directed to the wastewater pond.

## METAL CLEANING WASTES

Metal waste produced by boiler acid cleaning and air preheater rinses is directed to the metal waste impoundment pond for treatment. The waste is either hauled off site, discharged to the river through the wastewater clarifier, or disposed of by boiler EDTA evaporation. Normally the waste impoundment pond is used as makeup water to the FGD system. Refer to the water balance diagram and Table I for flow data.

## PLANT SITE STORMWATER RUNOFF

The main plant site rainfall runoff is directed to a series of settling basins for treatment of solids, then through sand and rock filters to a centrally located pump structure. From here the effluent is pumped through a dike and discharged to Elk Creek. The settling basins are designed to process runoff associated with a 10 year, 24 hour rainfall event. Refer to Table I and the water balance diagram for calculated rainfall data.

## LANDFILL SEDIMENTATION PONDS

There are two landfill sedimentation, ponds located on the north side of highway 85 from the plant site, in or near the landfill area. Stormwater is directed to each of these ponds from the active portion of the landfill., for the purpose of sedimentation and adjusting the pH if necessary before discharging to the Green River. Each pond is designed to hold a 10 yr/24 hr. rainfall event. Refer to outfall numbers 002 and 009 in Table I and the water balance diagram for calculated flow data.

## FGD (SCRUBBER) SYSTEM

Makeup water coming from the waste impoundment pond and the service water basin is sufficient to take care of all required water needs for the scrubber area. This would also include all stack evaporative losses, and water lost to scrubber sludge that is transported to the landfill. See water balance diagram for flow data.

## 316(a) & 316(b)

According to the 316(a) of the Clean Water Act, the state must provide control of thermal discharges to assure the protection and propagation of a balanced, indigenous population of shellfish, fish and wildlife in and on a body of water.

The Wilson plant discharges cooling tower blowdown to the Green River. The blowdown, which is taken from the cool side of the cooling water loop, consist of approximately thirty seven percent of the total main plant (001) discharge.

During a seven year low flow event of 586 cfs, the discharge will be less than one percent of the instream flow.

The 1979 environmental analysis for the Wilson plant addressed items concerned with the minimization of the intake's adverse environmental impacts on the receiving stream as required by 316(b) of the Clean Water Act. Concerns addressed by the environmental protection agency were incorporated in the design of the intake structure. The intake velocity was calculated using the installed design of 0.50 feet/second with two pumps in service. Normal operation is for only one pump to be in service with the second pump as a backup. Western Kentucky Energy has not modified the design or operation, (other than to substantially reduce the flow coming from the main plant discharge), in any way which would necessitate further 316(b) studies.

Therefore, Western Kentucky Energy feels the requirements of the 316 (a) and 316(b) are being met.

WESTERN KENTUCKY ENERGY CORPORATION
D.B. WILSON PLANT
KPDES PERMIT NO. KY0054836
RAINFALL RUNOFF
TABLE I

## RAINFALL RUNOFF CALCULATIONS

DATA
Area = # Acres
Coefficient for Rainfall Runoff = $C_R$
10-year, 24-hour Rainfall = 4.7 in/day
Annual Average Rainfall = 45 in/year

1-Day Flow
(# acres)(43560 $ft^2$/acre)($C_R$)(4.7 in/day)(1 ft/12 in)(7.48 gal/$ft^3$)
(1 MG/1,000,000 gal) = 0.1276 (# acres)($C_R$) MGD

30-Day Flow
(# acres)(43,560 $ft^2$ acre)($C_R$)(45 in/year)(1 ft/12 in)(7.48 gal/$ft^3$)
(1 year/365 days)(1 MG/1,000,000 gal) = 0.00334 (# acres)($C_R$)MGD

| Source | $C_R$ | # Acres | 1-Day (MGD) | 30-Day (MGD) |
|---|---|---|---|---|
| Waste impoundment pond (005) | 1.0 | 2.2 | 0.28 | 0.007 |
| Plant site runoff (004) | 0.95 | 11.42 | 1.384 | 0.036 |
| Wastewater pond surface (004) | 1.0 | 4.78 | 0.61 | 1.016 |
| Coal pile runoff (004) | 0.22 | 91.47 | 2.568 | 0.067 |
| Coal pile runoff pond surface (002) | 1.0 | 17.64 | 2.25 | 0.059 |
| Scrubber sludge landfill runoff (002) | 0.35 | 114.20 | 5.1 | 0.133 |
| Scrubber pond surface (002) | 1.0 | 3.52 | 0.45 | 0.012 |
| Site runoff (003) | 0.22 | 302.44 | 8.49 | 0.222 |
| Site runoff pond surface (003) | 1.0 | 10.00 | 1.276 | 0.033 |
| Scrubber sludge landfill runoff (009) | 0.6 | 14.00 | 1.07 | 0.028 |

The runoff, factors chosen for CR were obtained from the Standard Handbook for Civil Engineers, Third Edition, 1983.

WESTERN KENTUCKY ENERGY

Western Kentucky Energy Corp.
145 N. Main Street
P. O. Box 1518
Henderson, KY 42419-1518
270-844-6000
270-844-6048 FAX

June 20, 2000

Division of Water, KPDES Branch
ATTN: Ms. Nancy Green
14 Reilly Road, Frankfort Office Park
Frankfort, Kentucky 40601

Re: KPDES No.: KY0054836
Ohio County, Kentucky

Dear Ms. Green:

Please find enclosed data for the D.B. Wilson plant KPDES permit renewal. Two out-falls were inadvertently missed. The analysis will be completed as soon as possible and submitted under a separate letter.

If you have any additional questions concerning this data submission, please call me at (270) 844-6031.

Sincerely,

Thomas L. Shaw

Thomas L. Shaw
Senior Environmental Scientist

00062225

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: Western Kentucky Energy (Wilson Station) Phone: 842 6031 Collected by: Tom Shaw

Contract: Tom Shaw Date: 6/27/00

Client Job: Cooler No.:

Customer No.: Project No.: P.O. No.: USE OPEN P.O. from last set of ANALYSIS Tom Shaw

| Sample Type Liquid/Solid | Location Sample ID | Type: Grab | Type: Composite | Time Collected | Container | Preservative | Field data: pH | DO | Cl | Temp | Flow | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liq | 008 | ✓ | | 10 [illegible] | [illegible] | [illegible] | | | | | | Case Narrative |
| | | ✓ | | 10:15 | [illegible] | $H_2SO_4$ | | | | | | A on list |
| | | — | | 10:40 | plastic | HEN/NaOH | | | | | | E on list |
| | | — | | 10:35 | plastic | None | | | | | | F on list |
| | | — | | 10:30 | Glass | $H_2SO_4$ | | | | | | C on list |
| | | — | | 10:20 | Glass | $H_2SO_4$ | | | | | | H on list |
| | | — | | 10:10 | plastic | NaOH | | | | | | G on list |
| | | — | | 10:20 | plastic | $HNO_3$ | | | | | | D on list |
| | | — | | 10:05 | plastic | NONE | | | | | | B on list |
| | | — | | 10:17 | Glass | | | | | | | VOC |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw Date/Time: 6/27/00 2:40 |
| pH Meter #: DO Meter #: | Received by: Matt [illegible] Date/Time: 6/27/00 1440 |
| Performed by: | Relinquished by: Date/Time: |
| Date/Time Performed: | Received by: Date/Time: |

SPRINT PRINT FORM #6265

MC170

# Miscellaneous Central Lab Results

(Non-routine/not reported on main spreadsheet)

**Preliminary Report**

**Report To:** Tom Shaw **Date Reported:** 10/2/2001

**RE:** Special Samples **Copies To:** Mike Galbraith

| CL # | Sample Description | Plant ID | Time Sampled | Date Sampled | Test/Method | | |
|---|---|---|---|---|---|---|---|
| | | | | | Bromides | Chlorides | |
| | | | | | EPA 300.0 (IC) | EPA 300.0 (IC) | |
| 12218 | North Pond | | | 9/27/2001 | < mdl | 50.6 mg/l | |
| 12219 | South Pond | | | 9/27/2001 | < mdl | 21.6 mg/l | |
| 12220 | Landfill (Solid) | | | 9/27/2001 | 3 mg/kg | 333 mg/kg | |
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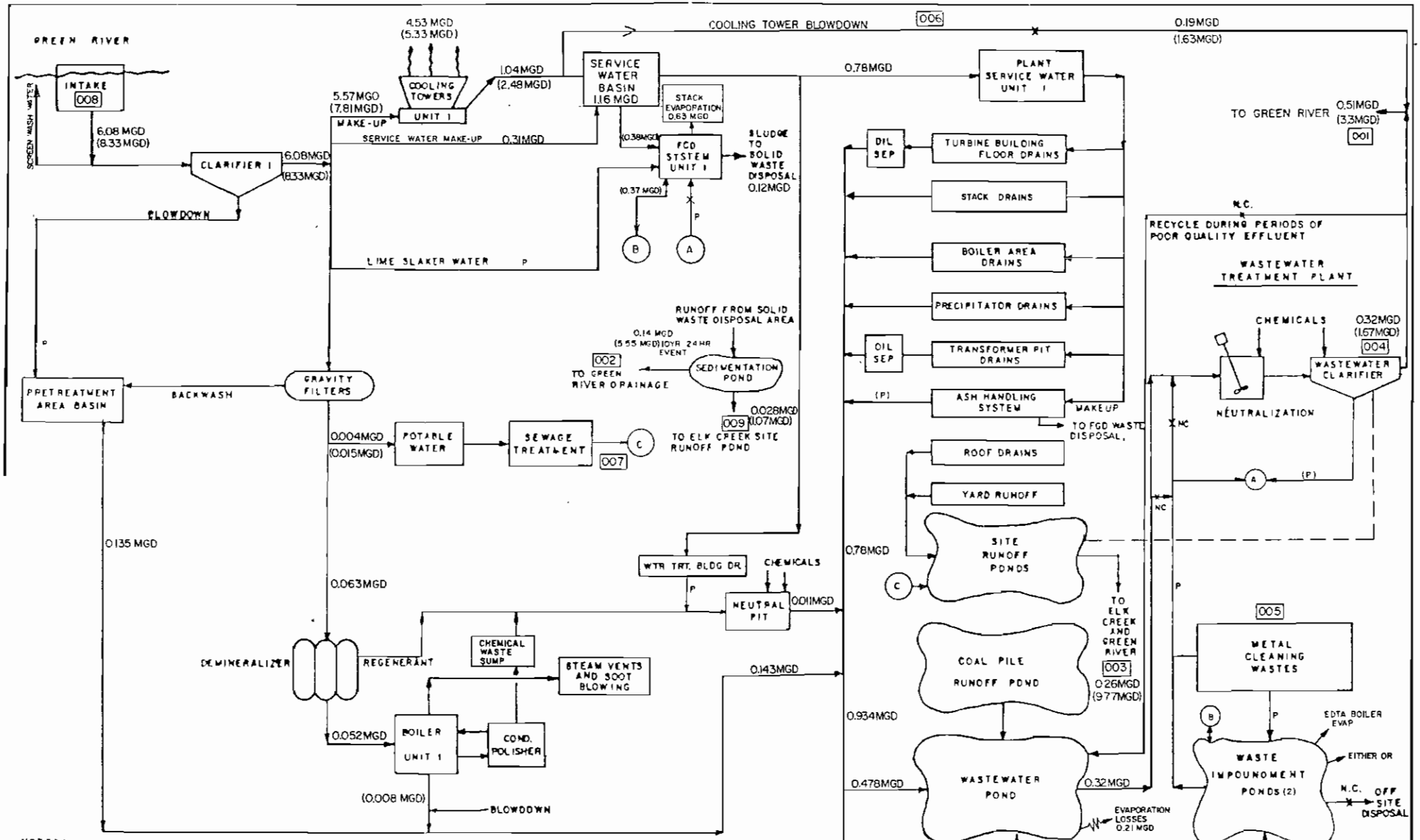
| | | | | Chemist: | DM | | |




NOTES:

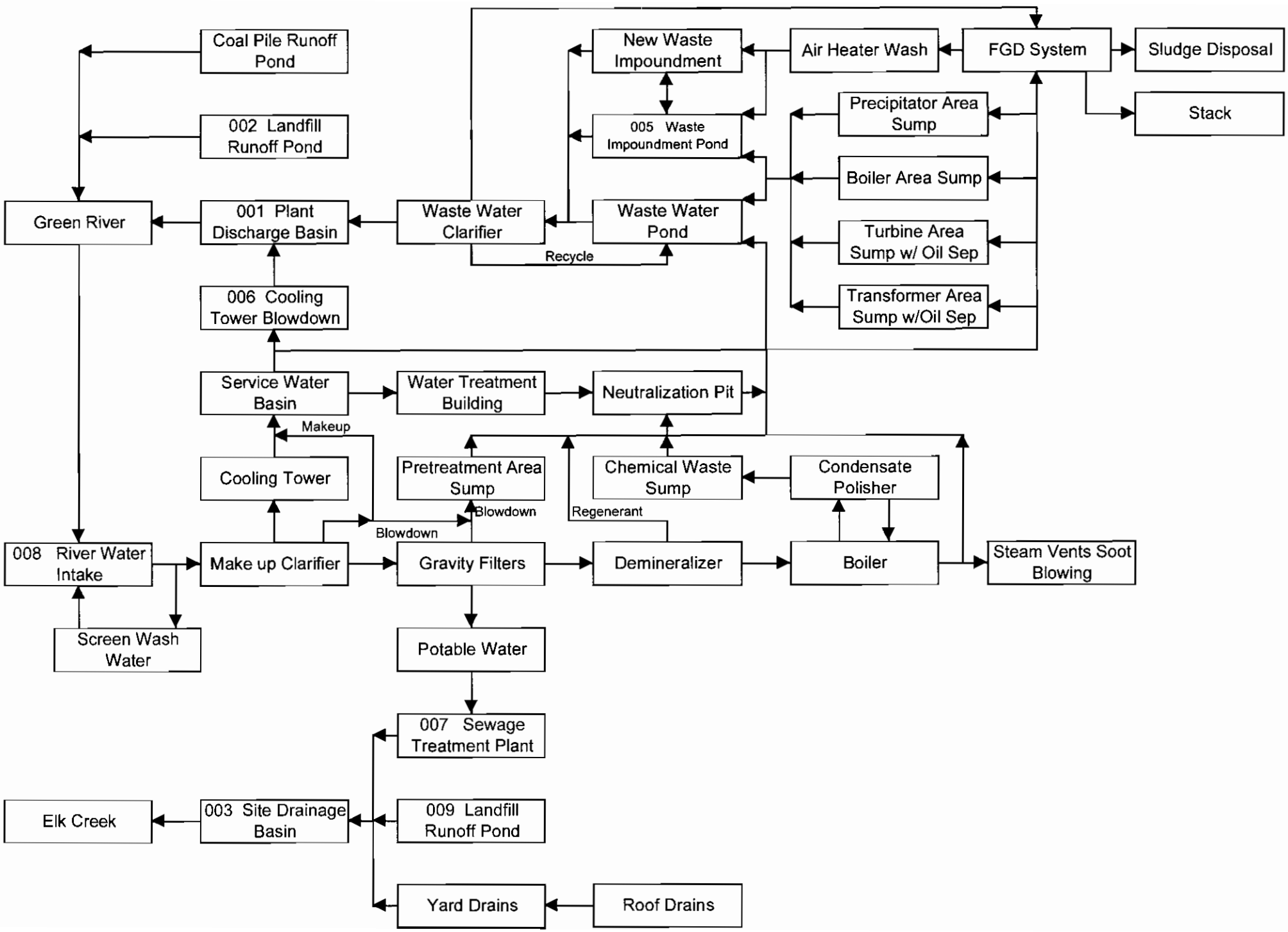
1. UNIT 1 AT 440 MW GROSS
2. ALL FLOWS IN MILLION GALLONS PER DAY (MGD)
3. FLOWS NOT IN PARENTHESIS ARE FOR NORMAL PLANT OPERATION
4. FLOWS IN PARENTHESIS ARE MAXIMUM DAILY FLOWS
5. P INDICATES AN INTERMITTENT FLOW OF SMALL VOLUME
6. [XXX] DENOTES ASSIGNED KPDES SERIAL NUMBERS
7. (A) AND (P) IS MAKEUP FROM THE IMPOUNDMENT POND AND WASTEWATER CLARIFIER TO FGD SYSTEM.

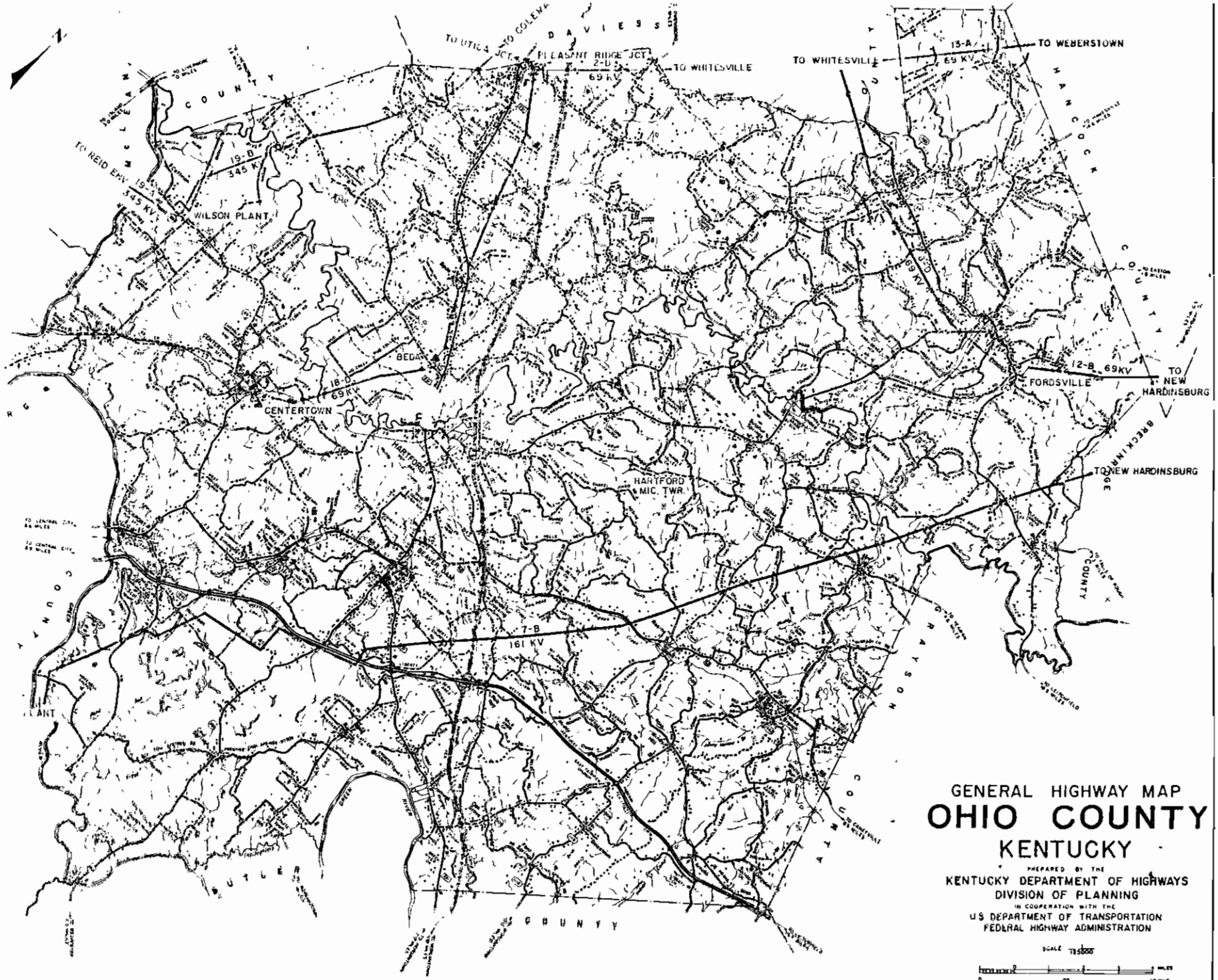
FIGURE 1

WATER BALANCE DIAGRAM
D. B. WILSON STATION
WESTERN KENTUCKY ENERGY

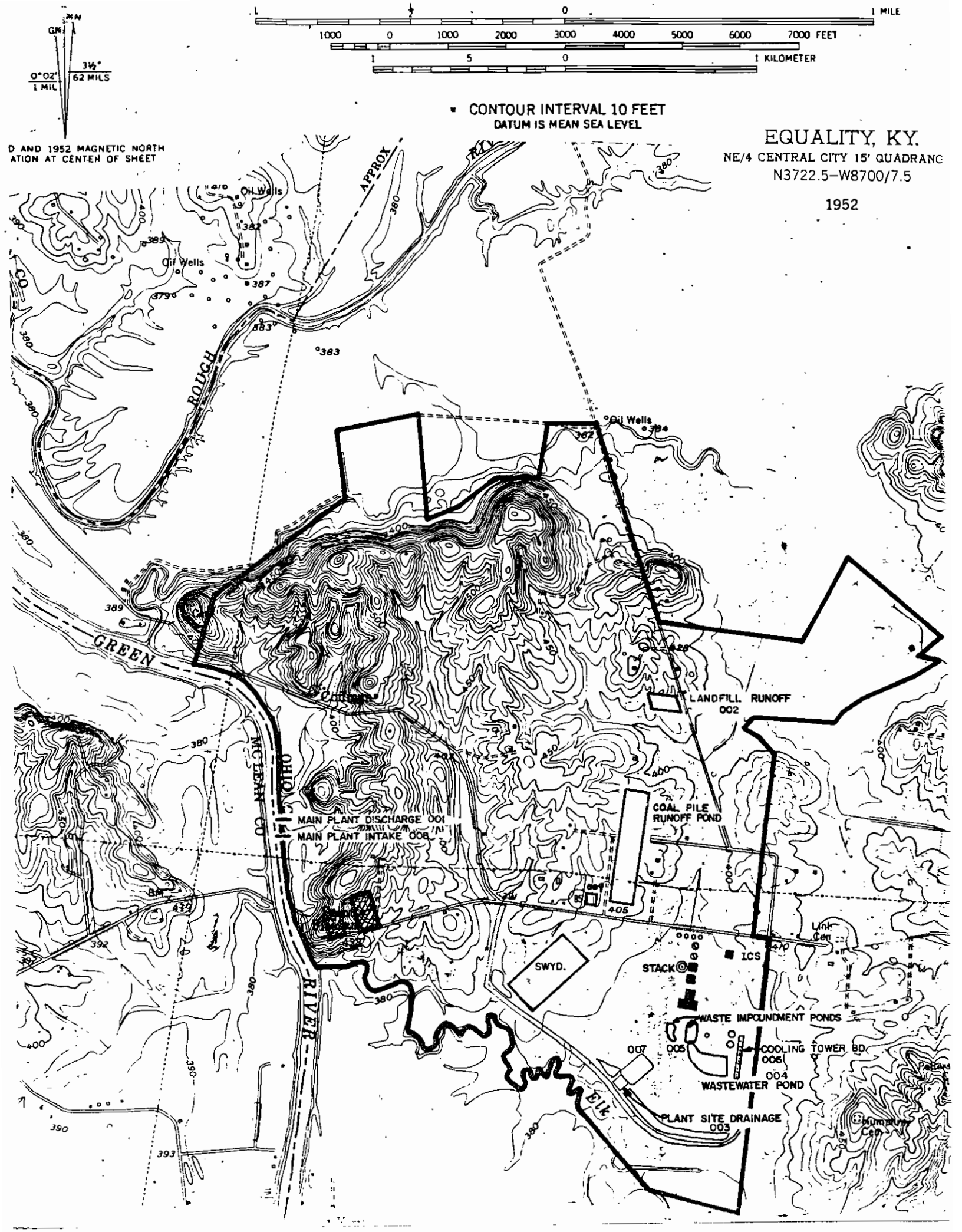
REVISED: FEBRUARY, 1995
FLOW STUDY

KPDES PERMIT NO KY0054836


Coal Pile Runoff Pond
New Waste Impoundment
Air Heater Wash
FGD System
Sludge Disposal
002 Landfill Runoff Pond
005 Waste Impoundment Pond
Precipitator Area Sump
Stack
Green River
001 Plant Discharge Basin
Waste Water Clarifier
Waste Water Pond
Boiler Area Sump
Recycle
Turbine Area Sump w/ Oil Sep
006 Cooling Tower Blowdown
Transformer Area Sump w/Oil Sep
Service Water Basin
Water Treatment Building
Neutralization Pit
Makeup
Cooling Tower
Pretreatment Area Sump
Chemical Waste Sump
Condensate Polisher
Blowdown
Regenerant
Blowdown
008 River Water Intake
Make up Clarifier
Gravity Filters
Demineralizer
Boiler
Steam Vents Soot Blowing
Screen Wash Water
Potable Water
007 Sewage Treatment Plant
Elk Creek
003 Site Drainage Basin
009 Landfill Runoff Pond
Yard Drains
Roof Drains


TO UTICA JCT.
TO COLEMAN
DAVIESS
PLEASANT RIDGE JCT.
2-D
69 KV
TO WHITESVILLE
TO WHITESVILLE
13-A
69 KV
TO WEBERSTOWN
TO REID EHV
19-B
345 KV
19-A
345 KV
WILSON PLANT
BEDA
18-D
69 KV
CENTERTOWN
HARTFORD
HARTFORD MIC. TWR.
69 KV
12-B 69KV
TO NEW HARDINSBURG
FORDSVILLE
TO NEW HARDINSBURG
7-B
161 KV
BUTLER
COUNTY
BREAKINRIDGE
COUNTY
OHIO
COUNTY
MCLEAN
COUNTY
GENERAL HIGHWAY MAP
OHIO COUNTY
KENTUCKY
PREPARED BY THE
KENTUCKY DEPARTMENT OF HIGHWAYS
DIVISION OF PLANNING
IN COOPERATION WITH THE
U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
SCALE 1:50000
SCALE FOR ENLARGEMENTS
POLYCONIC PROJECTION
17

REVISED 4-92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GN
0°02'
1 MIL
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62 MILS
D AND 1952 MAGNETIC NORTH
ATION AT CENTER OF SHEET
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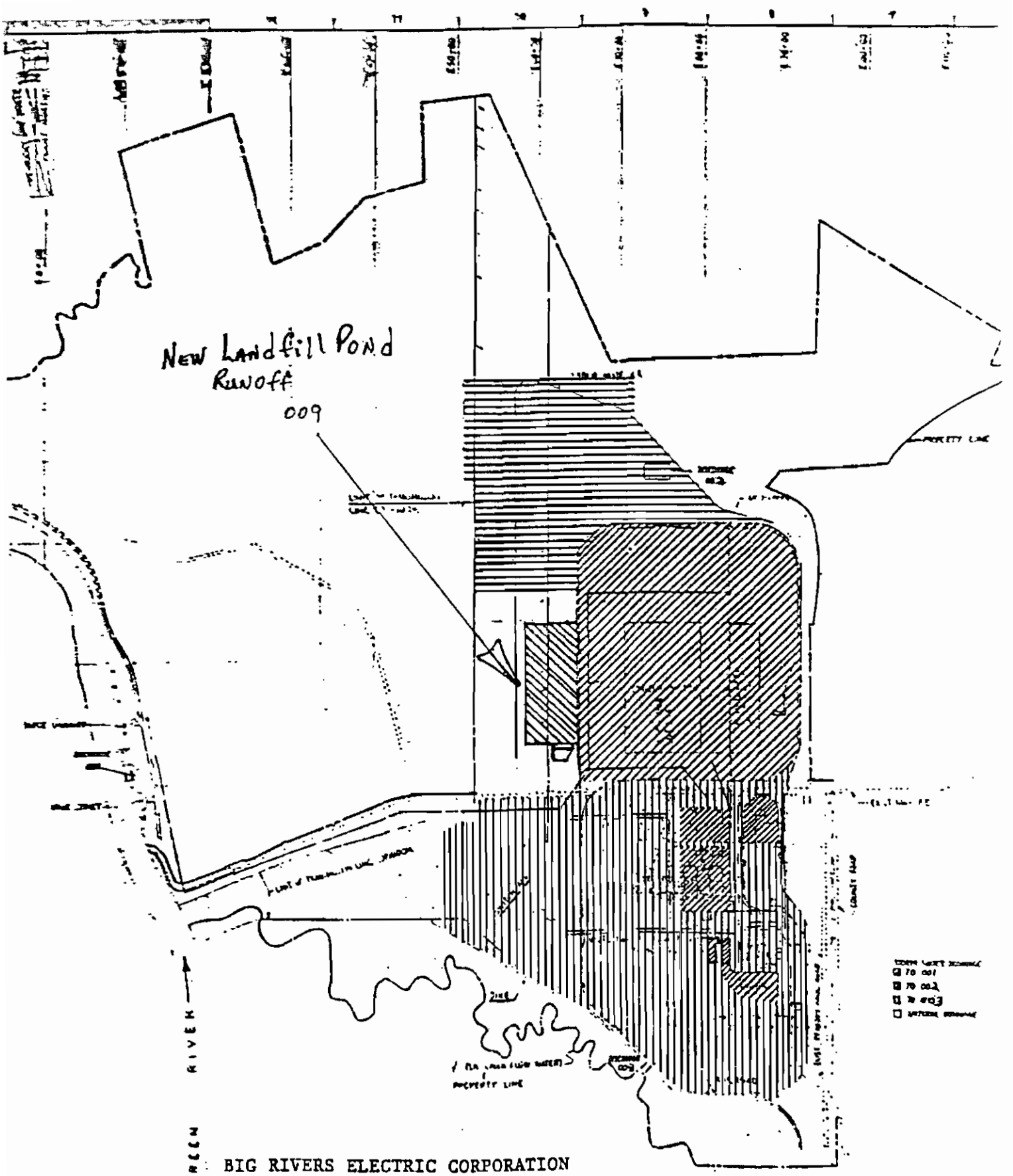
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
EQUALITY, KY.
NE/4 CENTRAL CITY 15' QUADRANG
N3722.5–W8700/7.5
1952
APPROX
Oil Wells
ROUGH
GREEN
OHIO
RIVER
MCLEAN CO
Elk
LANDFILL RUNOFF
002
COAL PILE
RUNOFF POND
MAIN PLANT DISCHARGE 001
MAIN PLANT INTAKE 008
SWYD.
STACK
ICS
WASTE IMPOUNDMENT PONDS
007
005
COOLING TOWER BD.
006
004
WASTEWATER POND
PLANT SITE DRAINAGE
003




BIG RIVERS ELECTRIC CORPORATION
D.B. WILSON POWER PLANT
NPDES PERMIT NO. KY0054836

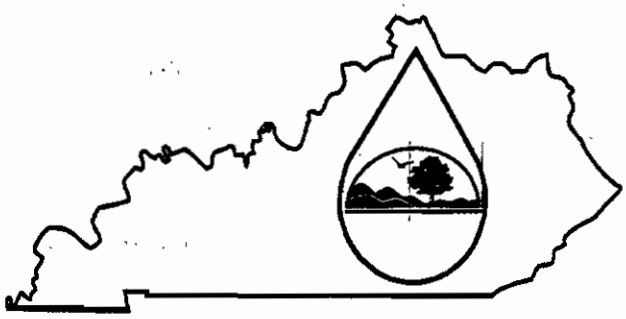
Attachment 1
Wastewater Operators
D.B. Wilson

John M. Burnett
858 Shrewsbury Road
Owensboro, KY 42301
(270)259-6684
Wastewater Class 1
License # 01210

Robert E. Davis
6667 Ditto Road
Leitchfield, KY 42754
(270)233-4624
Wastewater Class 1
License # 00871

John M. Fisher
2501 Seminole Place
Philpot, KY 42366
(270)683-9192
Wastewater Class 1
License # 01080

# KPDES FORM 1



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☑ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

**I. FACILITY LOCATION AND CONTACT INFORMATION** | AGENCY USE

A. Name of business, municipality, company, etc. requesting permit
Western Kentucky Energy P.O. Box 1518 Henderson, KY 42419-1518

| B. Facility Name and Location | C. Facility Owner/Mailing Address |
|---|---|
| Facility Location Name: D.B. Wilson Station | Owner Name: Big Rivers Electric Corp. |
| Facility Location Address (i.e. street, road, etc.): P.O. Box 190 Hwy 85 | Mailing Street: P.O. Box 24 |
| Facility Location City, State, Zip Code: Island, KY 42350 | Mailing City, State, Zip Code: Henderson, KY. 42420 |
| | Telephone Number: 270-827-2561 |

Please Send Correspondence to Western Kentucky Energy P.O. Box 1518 Henderson KY 42419-1518 Attn: Tom Shaw

**II. FACILITY DESCRIPTION**

A. Provide a brief description of activities, products, etc:
Coal-fired steam electric power generation

B. Standard Industrial Classification (SIC) Code and Description

| | | | |
|---|---|---|---|
| Principal SIC Code & Description: 4911 | Coal-fired steam electric | | |
| Other SIC Codes: | | | |

**III. FACILITY LOCATION**

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| B. County where facility is located: | City where facility is located (if applicable): |
|---|---|
| Ohio | Near Island |

C. Body of water receiving discharge: Green River

| D. Facility Site Latitude (degrees, minutes, seconds): | Facility Site Longitude (degrees, minutes, seconds): |
|---|---|
| N37° 27' 15" | W87° 06' 06" |

E. Method used to obtain latitude & longitude (see instructions): Topo

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 031 072 619

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:
☑ Publicly Owned ☐ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| SEE Attachment 1 | |
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Oct 1995 | Oct 2000 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: | Sludge Disposal Permit Number: |
| | 6-19-80 | |
| Kentucky DOW Operational Permit #: | Kentucky DSMRE Permit Number(s): | |

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | O-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Greg Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson, KY, 42420 |
| DMR Official Telephone Number: | 270-844-6022 |

## VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please r ine the base and filing fees listed in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the a... opriate amount.

A. _____ $_____
Facility Fee Category Filing Fee Enclosed

## VII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE(type or print) | PHONE NO (area code and number) |
|---|---|
| Deborah D. Dewey VP- Operations | 270-844-6041 |
| SIGNATURE | DATE |
| Deborah D. Dewey | 6-19-00 |

# KPDES FORM 1

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)
- ☐ Apply for a new permit.
- ☑ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

**I. FACILITY LOCATION AND CONTACT INFORMATION** | AGENCY USE

A. Name of business, municipality, company, etc. requesting permit
Western Kentucky Energy P.O. Box 1518 Henderson, KY 42419-1518

| B. Facility Name and Location | C. Facility Owner/Mailing Address |
|---|---|
| Facility Location Name: D.B. Wilson Station | Owner Name: Big Rivers Electric Corp. |
| Facility Location Address (i.e. street, road, etc.): P.O. Box 190 Hwy 85 | Mailing Street: P.O. Box 24 |
| Facility Location City, State, Zip Code: Island, KY 42350 | Mailing City, State, Zip Code: Henderson, KY. 42420 |
| | Telephone Number: 270-827-2561 |

Please Send Correspondence to Western Kentucky Energy P.O. Box 1518 Henderson KY 42419-1518 Attn: Tom Shaw

**II. FACILITY DESCRIPTION**

A. Provide a brief description of activities, products, etc:
Coal-fired steam electric power generation

**B. Standard Industrial Classification (SIC) Code and Description**

| | | | |
|---|---|---|---|
| Principal SIC Code & Description: 4911 | Coal-fired steam electric | | |
| Other SIC Codes: | | | |

**III. FACILITY LOCATION**

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| B. County where facility is located: | City where facility is located (if applicable): |
|---|---|
| Ohio | Near Island |

C. Body of water receiving discharge: Green River

| D. Facility Site Latitude (degrees, minutes, seconds): | Facility Site Longitude (degrees, minutes, seconds): |
|---|---|
| N37° 27' 15" | W87° 06' 06" |

E. Method used to obtain latitude & longitude (see instructions): Topo

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 031 072 619

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:
☑ Publicly Owned ☐ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| SEE ATTACHMENT 1. | |
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Oct 1995 | Oct 2000 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: | Sludge Disposal Permit Number: |
| | 6-19-80 | |
| Kentucky DOW Operational Permit #: | Kentucky DSMRE Permit Number(s): | |
| | | |

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | O-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Greg Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson, KY, 42420 |
| DMR Official Telephone Number: | 270-844-6022 |

# KPDES FORM C

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: D. B. Wilson Station | County: OHIO

AGENCY USE

### I. OUTFALL LOCATION

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 001 | 37 | 27 | 15 | 87 | 06 | 06 | Green River |
| 002 | 37 | 28 | 45 | 87 | 04 | 10 | Green River |
| 003 | 37 | 26 | 40 | 87 | 04 | 57 | Elk Creek |
| 005 | | | | | | | Internal to 001 |

### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 001 | Main Plant Discharge Contributing Flows: | 0.51 MGD | All contributing flows undergo sedimentation | 4-A 1-U 2-K 2-H |
| | Wastewater pond | 0.32 MGD | settling and neutralization | |
| | Coal Pile runoff | | | |
| | Plant drains | | | |
| | Cooling Tower Blowdown | 0.19 MGD | | |
| | Waste Impoundment Pond Runoff Plant Site runoff | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☑ Yes (List all such pollutants below) ☐ No (Go to Item VI-B)

Chlorine
Sodium Hydroxide
Propolyene Glycol
Sodium Hypochloeite
Betz CDP (Polyaluminum chloeide)
Sulfuric Acid
Di Basic Acid
Betz 3625 (Quantinary amine)
Betz 2460 (Anti Scaler)
Amonia
Betz 3200 (Corrosion inhibitor)
Betz Dearborn Powerline 3610 (Methylene Bis (Thocyanate)
Betz Dearborn Power line BRE-11
phosphonic Acid (1, hydroxyethylidine) Bis - (HEDP)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

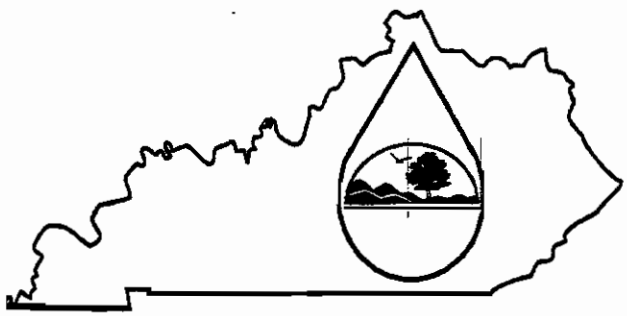
| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| McCoy Lab | 85 E. Noel Ave<br>Madisonville, KY<br>42431 | 270-821-7375 | A<br>B<br>Form G |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Deborah D. Dewey | 270-844-6041 |
| SIGNATURE: Deborah D. Dewey | DATE: 6/5/00 |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: D. B. Wilson Station

County: OHIO

AGENCY USE

### I. OUTFALL LOCATION

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 001 | 37 | 27 | 15 | 87 | 06 | 06 | Green River |
| 002 | 37 | 28 | 45 | 87 | 04 | 10 | Green River |
| 003 | 37 | 26 | 40 | 87 | 04 | 57 | Elk Creek |
| 005 | | | | | | | Internal to 001 |

### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 001 | Main Plant Discharge | 0.51 MGD | All contributing flows | 4-A 1-U |
| | Contributing flows: | | undergo sedimentation | 2-K 2-H |
| | Wastewater pond | 0.32 MGD | settling and neutralization | |
| | Coal Pile runoff | | | |
| | Plant drains | | | |
| | Cooling Tower Blowdown | 0.19 MGD | | |
| | Waste Impoundment Pond | | | |
| | Runoff Plant Site runoff | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☑ Yes (List all such pollutants below) ☐ No (Go to Item VI-B)

Chlorine
Sodium Hydroxide
Propolyene Glycol
Sodium Hypochloeite
Betz CDP (Polyaluminum chloride)
Sulfueic Acid
Di Basic Acid
Betz 3625 (Quantinary Amine)
Betz 2960 (Anti Scaler)
Amonia
Betz 3200 (Corrosion inhibitor)
Betz Dearborn Powerline 3610 (Methylene Bis (Thocyanate)
Betz Dearborn Power line BRE-11
phosphonic Acid (1, hydroxyethylidine) Bis - (HEDP)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

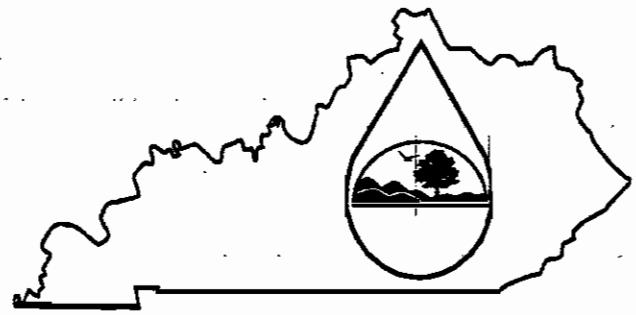
| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| McCoy Lab | 85 E. Noel Ave<br>Madisonville, KY<br>42431 | 270-821-7375 | A<br>B<br>Form G |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Deborah D. Dewey | 270-844-6041 |
| SIGNATURE<br>Deborah D. Dewey | DATE<br>6/5/00 |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D. B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 006 | | | | | | | Internal to 001 |
| 007 | | | | | | | Internal to 003 |
| 008 | | | | | | | Intake at Green River |
| 009 | 37 | 27 | 10 | 87 | 04 | 45 | Green River |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 002 | Scrubber Sludge landfill runoff | 0.14 MGD | Stormwater runoff collected in a pond for settling and neutralization if necessary | 2-K<br>1U |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KPDES FORM C

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D. B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 006 | | | | | | | Internal to 001 |
| 007 | | | | | | | Internal to 003 |
| 008 | | | | | | | Intake at Green River |
| 009 | 37 | 27 | 10 | 87 | 04 | 45 | Green River |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 002 | Scrubber Sludge landfill runoff | 0.14 MGD | Stormwater runoff collected in a pond for settling and neutralization if necessary | Z-K 1U |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

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| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
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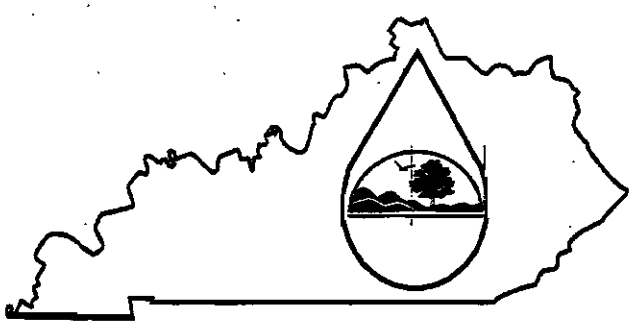
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

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For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D. B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 003 | Plant site storm water runoff and sanitary wastewater | 0.51 MGD | Site rainfall runoff and sanitary wastewater flow to a series of basins for sedimentation settling filtration | 1U 2-K 4A 1-V |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
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| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

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C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
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| | | | |

## IV. IMPROVEMENTS

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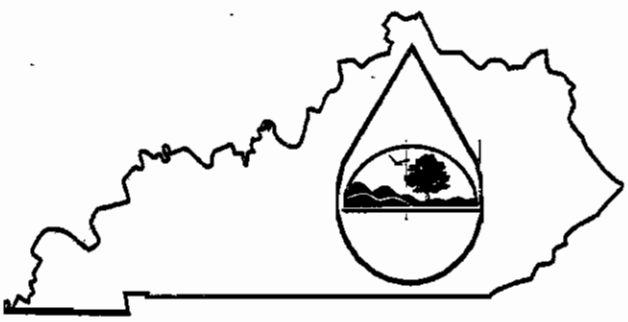
B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

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| Name of Facility: D.B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| | | | | | | | |
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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

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| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 005 | Metal Cleaning Waste | | Internal outfall Normal operation is Scrubber water make up Intermittant operation is to waste water clarifer | 2-C |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

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| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
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## III. MAXIMUM PRODUCTION

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# KPDES FORM C

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

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| Name of Facility: D.B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

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| OUTFALL NUMBER | OPERATIONS CONTRIBUTING FLOW | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week | Months Per Year | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| (list) | (list) | (specify average) | (specify average) | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
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| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

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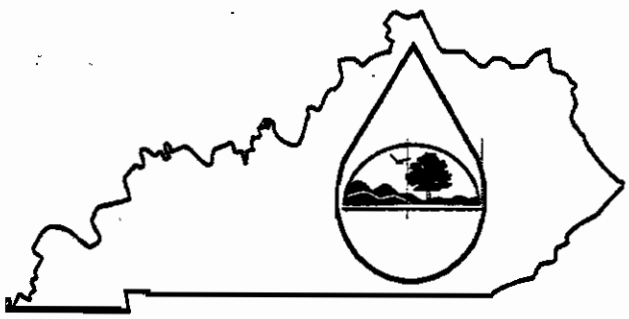

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

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| | | | | | | | |
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|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 006 | Internal discharge to 001 | 0.19 MGD | | |
| | Cooling tower blowdown | | | |
| | | | | |
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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

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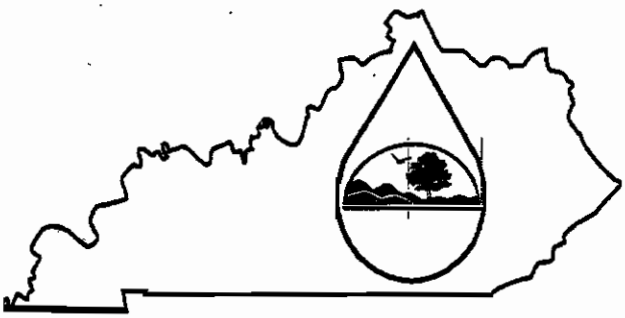

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| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| | Internal discharge to 001 | 0.19 MGD | | |
| 006 | Cooling tower blowdown | | | |
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## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

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☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KPDES FORM C

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D.B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 007 | Sanitary wastewater | 0.004 MGD | Internal discharge to 003 | 3A |
| 008 | Plant intake | 6.08 MGD | | 1-T<br>2-F |
| 009 | Special waste landfill runoff | 0.028 MGD | Storm water runoff collected for settling and neutralization if necessary | 2K<br>1U |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

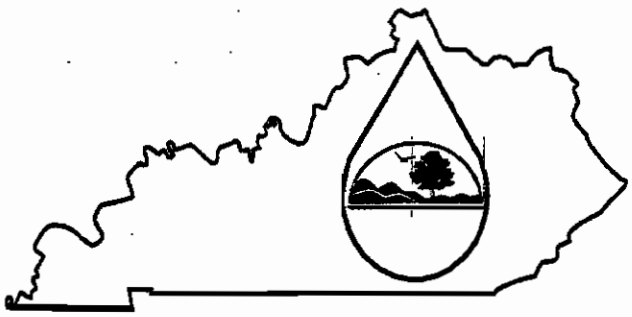
A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D.B. Wilson Station | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 007 | Sanitary wastewater | 0.004 MGD | Internal discharge to 003 | 3A |
| 008 | Plant intake | 6.08 MGD | | 1-T<br>2-F |
| 009 | Special waste landfill runoff | 0.028 MGD | Storm water runoff collected for settling and neutralization if necessary | 2K<br>1U |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 001

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 65 | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | 22 | 605 | | | | | 1 | mg/l | lbs/D | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1 U | 27.5 | | | | | 1 | mg/l | lbs/Day | | | |
| f. Flow (in units of MGD) | VALUE 3.3 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE 2.8 | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE 34 | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 6.4 | MAXIMUM 8.3 | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

DATA is being collected and will be furnished at a later date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.38 | 10.5 | | | | | 1 | mg/e | lbs/D | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 59 | 1623 | | | | | 1 | mg/e | lbs/D | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 5 | 137.6 | | | | | 1 | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 1.94 | 53.4 | | | | | 1 | mg/e | lbs/D | | | |
| h. Hardness (as $CaCO_3$) | | | 750 | 20,641 | | | | | 1 | mg/e | lbs/D | | | |
| i. Nitrate-Nitrite (as N) | | | 0.02 u | 0.6 | | | | | 1 | mg/e | lbs/D | | | |
| j. Nitrogen, Total Organic (as N) | | | 4.4 | 121 | | | | | 1 | mg/e | lbs/D | | | |
| k. Oil and Grease | | | 1 u | 27.5 | | | | | 1 | mg/e | lbs/D | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.14 | 3.9 | | | | | 1 | mg/e | lbs/D | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | | | 880 | 24.29 | | | | | 1 | mg/e | lbs/D | | | |
| o. Sulfide (as S) | | | 14 | 385 | | | | | 1 | mg/e | lbs/D | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | | | 14 | 385 | | | | | 1 | mg/e | lbs/D | | | |
| q. Surfactants | | X | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | | | 0.23 | 6.3 | | | | | 1 | mg/e | lbs/D | | | |
| s. Barium, Total (7440-39-3) | | | 0.069 | 1.9 | | | | | 1 | mg/e | lbs/D | | | |
| t. Boron, Total (7440-42-8) | | | 4.4 | 121 | | | | | 1 | mg/e | lbs/D | | | |
| u. Cobalt, Total (7440-48-4) | | | 0.002 u | 0.05 | | | | | 1 | mg/e | lbs/D | | | |
| v. Iron, Total (7439-89-6) | | | 0.36 | 9.9 | | | | | 1 | mg/e | lbs/D | | | |
| w. Magnesium Total (7439-96-4) | | | 110 | 3,027 | | | | | 1 | mg/e | lbs/D | | | |
| x. Molybdenum Total (7439-98-7) | | | 0.14 | 3.8 | | | | | 1 | mg/e | lbs/D | | | |
| y. Manganese, Total (7439-96-6) | | | 0.5 | 13.7 | | | | | 1 | mg/e | lbs/D | | | |
| z. Tin, Total (7440-31-5) | | | 0.002 u | 757 | | | | | 1 | mg/e | lbs/D | | | |
| aa. Titanium, Total (7440-32-6) | | | 0.002 u | 27.5 | | | | | 1 | mg/e | lbs/D | | | |

u = below detection limit

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | 0.002 u | 0.05 | | | | | 1 | mg/l | lb/D | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | 0.021 | 0.57 | | | | | 1 | mg/l | lbs/D | | | |
| 3M. Beryllium Total (7440-41-7) | | | | 0.002 u | 0.05 | | | | | 1 | mg/l | lbs/D | | | |
| 4M. Cadmium Total (7440-43-9) | | | | 0.002 u | 0.05 | | | | | 1 | mg/l | lbs/D | | | |
| 5M. Chromium Total (7440-43-9) | | | | 0.002 u | 0.05 | | | | | 1 | mg/l | lbs/D | | | |
| 6M. Copper Total (7550-50-8) | | | | 0.0026 | 0.07 | | | | | 1 | mg/l | lbs/D | | | |
| 7M. Lead Total (7439-92-1) | | | | 0.0032 | 0.09 | | | | | 1 | mg/l | lbs/D | | | |
| 8M. Mercury Total (7439-97-6) | | | | 0.0002 u | 0.05 | | | | | 1 | mg/l | lbs/D | | | |
| 9M. Nickel, Total (7440-02-0) | | | | 0.026 | 0.7 | | | | | 1 | mg/l | lbs/D | | | |
| 10M. Selenium, Total (7782-49-2) | | | | 0.072 | 1.98 | | | | | 1 | mg/l | lbs/D | | | |
| 11M. Silver, Total (7440-28-0) | | | | 0.002 | 0.05 | | | | | 1 | mg/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | 0.002 u | 0.05 | | | | | 1 | mg/l | lbs/D | | | |
| 13M. Zinc, Total (7440-66-6) | | | | 0.024 | 0.7 | | | | | 1 | mg/l | lbs/D | | | |
| 14M. Cyanide, Total (57-12-5) | | | | 0.02 u | 0.5 | | | | | 1 | mg/l | lbs/D | | | |
| 15M. Phenols, Total | | | | 10 u | 0.275 | | | | | 1 | ug/l | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 2V. Acrylonitrile (107-13-1) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 3V. Benzene (71-43-2) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 5V. Bromoform (75-25-2) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 7V. Chloro-benzene (108-90-7) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | 5 u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 25V. Toluene (108-88-3) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | 5u | 0.137 | | | | | 1 | ug/l | lbs/D | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 1u | 0.027 | | | | | 1 | ug/l | lbs/D | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 2A. 2,4-Dichlor-Orophenol (120-83-2) | | | | 10u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 10A. Phenol (108-05-2) | | | | 10u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 3B. Anthracene (120-12-7) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 4B. Benzidine (92-87-5) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromophenyl Phenyl ether (101-55-3) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 17B. Chrysene (218-01-9) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 5 u | 0.137 a | | | | | 1 | ug/l | lbs/D | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10 u | 0.275 a | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 31B. Fluorene (86-73-7) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 36B. Indeno-(1,2,3-cc)-Pyrene (193-39-5) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 37B. Isophorone (78-59-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 38B. Napthalene (91-20-3) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 44B. Pyrene (129-00-0) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10 u | 0.275 | | | | | 1 | ug/l | lbs/D | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | 3. UNITS (specify if blank) b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 4. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 4. INTAKE (optional) b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

Data is being collected and will be furnished at a later date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 6. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| o. Sulfide (as S) | | | | | | | | | | | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| q. Surfactants | | | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| s. Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| t. Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| u. Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| v. Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| w. Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| x. Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| y. Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| z. Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| aa. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at lesst one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Diehlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-buladiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 002

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 25 | 625 | | | | | 1 | mg/l | lbs/Day | | | |
| c. Total Organic Carbon (TOC) | 10 | 462.9 | | | | | 1 | mg/l | lbs/Day | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1U | 46.3 | | | | | 1 | mg/l | lbs/D | | | |
| f. Flow (in units of MGD) | VALUE 3.0 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE N/A | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE N/A | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM 6.7 | MAXIMUM 8.5 | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

~~Data is being collected AND will be furnished at a later date~~

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.02 u | 0.09 | | | | | 1 | mg/l | lbs/D | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 36 | 1666 | | | | | 1 | mg/l | lbs/D | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 13 | 601.7 | | | | | 1 | | | | | |
| f. Fecal Coliform | | X | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 0.61 | 28.2 | | | | | 1 | mg/l | lbs/D | | | |
| h. Hardness (as $CaCO_3$) | | | 640 | 29,623 | | | | | 1 | mg/l | lbs/D | | | |
| i. Nitrate – Nitrite (as N) | | | 0.1 u | 4.6 | | | | | 1 | mg/l | lbs/D | | | |
| j. Nitrogen, Total Organic (as N) | | | 1.9 | 87.9 | | | | | 1 | mg/l | lbs/D | | | |
| k. Oil and Grease | | | 1 u | 46.3 | | | | | 1 | mg/l | lbs/D | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.041 | 1.9 | | | | | 1 | mg/l | lbs/D | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate (as $SO_4$) (14808-79-8) | | | 600 | 27.772 | | | | | 1 | mg/l | lbs/D | | | |
| Sulfide (as S) | | | 2 | 92.6 | | | | | 1 | mg/l | lbs/D | | | |
| Sulfite (as $SO_4$) (14286-46-3) | | | 6 | 277.7 | | | | | 1 | mg/l | lbs/D | | | |
| Surfactants | | X | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | 0.3 | 13.9 | | | | | 1 | mg/l | lbs/D | | | |
| Barium, Total (7440-39-3) | | | 0.043 | 1.9 | | | | | 1 | mg/l | lbs/D | | | |
| Boron, Total (7440-42-8) | | | 1.1 | 50.9 | | | | | 1 | mg/l | lbs/D | | | |
| Cobalt, Total (7440-48-4) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | lbs/D | | | |
| Iron, Total (7439-89-6) | | | 0.5 | 23.1 | | | | | 1 | mg/l | lbs/D | | | |
| Magnesium Total (7439-96-4) | | | 20 | 925.7 | | | | | 1 | mg/l | lbs/D | | | |
| Molybdenum Total (7439-98-7) | | | 0.33 | 15.3 | | | | | 1 | mg/l | lbs/D | | | |
| Manganese, Total (7439-96-6) | | | 0.24 | 11.1 | | | | | 1 | mg/l | lbs/D | | | |
| Tin, Total (7440-31-5) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | lbs/D | | | |
| Titanium, Total (7440-32-6) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | lbs/D | | | |

U = below detection limit

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | 0.0024 | 0.11 | | | | | 1 | mg/l | lbs/D | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | 0.013 | 0.6 | | | | | 1 | mg/l | lbs/D | | | |
| 3M. Beryllium Total (7440-41-7) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 4M. Cadmium Total (7440-43-9) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 5M. Chromium Total (7440-43-9) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 6M. Copper Total (7550-50-8) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 7M. Lead Total (7439-92-1) | | | | 0.0031 | 0.14 | | | | | 1 | mg/l | lbs/D | | | |
| 8M. Mercury Total (7439-97-6) | | | | 0.0002 u | 0.009 | | | | | 1 | mg/l | lbs/D | | | |
| 9M. Nickel, Total (7440-02-0) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 10M. Selenium, Total (7782-49-2) | | | | 0.009 | 0.42 | | | | | 1 | mg/l | lbs/D | | | |
| 11M. Silver, Total (7440-28-0) | | | | 0.002 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | 0.002 u | 0.8 | | | | | 1 | mg/l | lbs/D | | | |
| 13M. Zinc, Total (7440-66-6) | | | | 0.0023 | 0.1 | | | | | 1 | mg/l | lbs/D | | | |
| 14M. Cyanide, Total (57-12-5) | | | | 0.02 u | 0.9 | | | | | 1 | mg/l | lbs/D | | | |
| 15M. Phenols, Total | | | | 0.04 u | 1.85 | | | | | 1 | mg/l | lbs/D | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 2V. Acrylonitrile (107-13-1) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 3V. Benzene (71-43-2) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 5V. Bromoform (75-25-2) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 7V. Chloro-benzene (108-90-7) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | 5 u | 0.231 | | | | | | | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |

u= below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 25V. Toluene (108-88-3) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | 5u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 1u | 0.046 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10 u | 0.462 | | | | | 1 | ug/l | | | | |
| 10A. Phenol (108-05-2) | | | | 0.04 u | 1.85 | | | | | 1 | ug/l | lbs/D | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 3B. Anthracene (120-12-7) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 4B. Benzidine (92-87-5) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 10B. Bis(2-chlor-ethoxy)-methane (111-91-1) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 11B. Bis 2-chlor-isopropyl)-ether | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 12B. Bis 2-ethyl-hoxyl)-phthalate (117-81-7) | | | | 11 | 509.1 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 17B. Chrysene (218-01-9) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 5 u | 0.231 | | | | | 1 | ug/l | lbs/D | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit.

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | 10 u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | ug/l | | | | |
| 30B. Fluoranthene (208-44-0) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 31B. Fluorene (86-73-7) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit.

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 37B. Isophorone (78-59-1) | | | | 10u | 0462 | | | | | 1 | ug/l | lbs/D | | | |
| 38B. Napthalene (91-20-3) | | | | 10u | 0462 | | | | | 1 | ug/l | lbs/D | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10u | 0.462 | | | | | 1 | ug/l | lbs/D | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10u | 0462 | | | | | 1 | ug/l | lbs/D | | | |
| 44B. Pyrene (129-00-0) | | | | 10u | 0462 | | | | | 1 | ug/l | lbs/D | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10u | 0462 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 002

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Data is being collected and will be furnished at a later date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (If available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 6. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate -- Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

'art B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| . Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| . Sulfide (as S) | | | | | | | | | | | | | | |
| . Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| . Surfactants | | | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| . Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| . Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| . Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| . Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| . Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| . Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chlor-isopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 003

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | 3. UNITS (specify if blank) b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 4. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 4. INTAKE (optional) b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 10 | 81.4 | | | | | 1 | mg/l | lbs/D | | | |
| c. Total Organic Carbon (TOC) | 14 | 81.4 | 8 | | | | 1 | mg/l | lbs/D | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 14 | 81.4 | | | | | 1 | mg/l | lbs/D | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM 7.2 | MAXIMUM 7.7 | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

~~Data is being collected and will be furnished at a latter date~~

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | ~~0.002~~ 0.02 U | 1.6 | | | | | 1 | mg/l | lbs/D | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 11 | 896 | | | | | 1 | mg/l | lbs/D | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 33 | 2688 | | | | | 1 | mg/l | lbs/D | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 0.43 | 35 | | | | | 1 | mg/l | lbs/D | | | |
| h. Hardness (as $CaCO_3$) | | | 220 | 17925 | | | | | 1 | mg/l | lbs/D | | | |
| i. Nitrate-Nitrite (as N) | | | 0.1 | 8.1 | | | | | 1 | mg/l | lbs/D | | | |
| j. Nitrogen, Total Organic (as N) | | | 1 U | 81 | | | | | 1 | mg/l | lbs/D | | | |
| k. Oil and Grease | | | 1 U | 81 | | | | | 1 | mg/l | lbs/D | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.05 | 4.07 | | | | | 1 | mg/l | lbs/D | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 3M. Beryllium Total (7440-41-7) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 4M. Cadmium Total (7440-43-9) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 5M. Chromium Total (7440-43-9) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 6M. Copper Total (7550-50-8) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 7M. Lead Total (7439-92-1) | | | | 0.0032 | 0.2 | | | | | 1 | mg/l | lbs/D | | | |
| 8M. Mercury Total (7439-97-6) | | | | 0.0002 u | 0.01 | | | | | 1 | mg/l | lbs/D | | | |
| 9M. Nickel, Total (7440-02-0) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 10M. Selenium, Total (7782-49-2) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 11M. Silver, Total (7440-28-0) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |

u = below detection limit

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | | | 110 | 8962 | | | | | 1 | mg/l | lbs/D | | | |
| o. Sulfide (as S) | | | 1.U | 81 | | | | | 1 | mg/l | lbs/D | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | | | 2 | 162.9 | | | | | 1 | mg/l | lbs/D | | | |
| q. Surfactants | | X | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | | | 0.47 | 38 | | | | | 1 | mg/l | lbs/D | | | |
| s. Barium, Total (7440-39-3) | | | 0.05 | 4 | | | | | 1 | mg/l | lbs/D | | | |
| t. Boron, Total (7440-42-8) | | | 0.44 | 35.8 | | | | | 1 | mg/l | lbs/D | | | |
| u. Cobalt, Total (7440-48-4) | | | 0.002 U | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| v. Iron, Total (7439-89-6) | | | 0.29 | 23.6 | | | | | 1 | mg/l | lbs/D | | | |
| w. Magnesium Total (7439-96-4) | | | 19 | 1548 | | | | | 1 | mg/l | lbs/D | | | |
| x. Molybdenum Total (7439-98-7) | | | 0.017 | 1.38 | | | | | 1 | mg/l | lbs/D | | | |
| y. Manganese, Total (7439-96-6) | | | 0.22 | 17.9 | | | | | 1 | mg/l | lbs/D | | | |
| z. Tin, Total (7440-31-5) | | | 0.002 U | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| aa. Titanium, Total (7440-32-6) | | | 0.0038 | 0.3 | | | | | 1 | mg/l | lbs/D | | | |

U = below detection limit.

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | 0.002 u | 0.16 | | | | | 1 | mg/l | lbs/D | | | |
| 13M. Zinc, Total (7440-66-6) | | | | 0.0094 | 0.76 | | | | | 1 | mg/l | lbs/D | | | |
| 14M. Cyanide, Total (57-12-5) | | | | 0.02 u | 1.6 | | | | | 1 | mg/l | lbs/D | | | |
| 15M. Phenols, Total | | | | 0.04 u | 3.2 | | | | | 1 | mg/l | lbs/D | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 2V. Acrylonitrile (107-13-1) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 3V. Benzene (71-43-2) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 5V. Bromoform (75-25-2) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 7V. Chloro-benzene (108-90-7) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 12V. Dichlorobromomethane (75-71-8) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 18V. 1,3-Dichloropropylene (452-75-6) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 19V. Ethylbenzene (100-41-4) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | 5 u | 0.4 | | | | | 1 | ug/l | | | | |
| 25V. Toluene (108-88-3) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 1u | 0.08 | | | | | 1 | ug/l | | | | |

u = below detection limit.

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 10A. Phenol (108-05-2) | | | | 0.04u | 0.03 | | | | | 1 | ug/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 3B. Anthracene (120-12-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 4B. Benzidine 92-87-5) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 5B. Benzo(a)-anthracene 56-55-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 6B. Benzo(a)-pyrene 50-32-8) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 7B. 3,4-Benzo-fluoranthene 205-99-2) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 8B. Benzo(ghi) perylene 191-24-2) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 9B. Benzo(k)-fluoranthene 207-08-9) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 10B. Bis(2-chlor-ethoxy)-methane 111-91-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 11B. Bis 2-chlor-isopropyl)-ether | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 12B. Bis 2-ethyl-hexyl)-phthalate 117-81-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | ... | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 17B. Chrysene (218-01-9) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 5u | 0.4 | | | | | 1 | ug/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | 10 u | 0.8 | | | | | 1 | ug/L | lbs/t | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | 10. u | 0.8 | | | | | 1 | ug/L | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 31B. Fluorene (86-73-7) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10 u | 0.8 | | | | | 1 | ug/L | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 37B. Isophorone (78-59-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 38B. Napthalene (91-20-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 44B. Pyrene (129-00-0) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10u | 0.8 | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO. 004**

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | [illegible] | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 56 | | | | | | 1 | mg/L | | | | |
| c. Total Organic Carbon (TOC) | 21 | | | | | | 1 | mg/L | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1U | | | | | | 1 | mg/L | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

~~Data is being collected and will be furnished at a latter date~~

Internal discharge flow not collected
pH
Temp

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 6. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 6. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.4 | | | | | | 1 | mg/L | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 59 | | | | | | 1 | mg/L | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 5 | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 2.02 | | | | | | 1 | mg/L | | | | |
| h. Hardness (as $CaCO_3$) | | | 760 | | | | | | 1 | mg/L | | | | |
| i. Nitrate – Nitrite (as N) | | | 0.1 U | | | | | | 1 | mg/L | | | | |
| j. Nitrogen, Total Organic (as N) | | | 4.4 | | | | | | 1 | mg/L | | | | |
| k. Oil and Grease | | | 1 U | | | | | | 1 | mg/L | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.092 | | | | | | 1 | mg/L | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

art C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column r all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required C/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark ther the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete ie table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METALS, CYANIDE AND TOTAL PHENOLS | | | | | | | | | | | | | | | |
| M. Antimony Total (7440-36-0) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | 0.022 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | | | | 0.0031 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | | | | 0.0002 U | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | 0.034 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | 0.073 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | | | | 0.002 U | | | | | | 1 | mg/l | | | | |

U = below detection limit

art B - Continued

| 1. POLLUTANT and CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate (as $SO_4$) (14808-79-8) | | | 900 | | | | | | 1 | mg/l | | | | |
| Sulfide (as S) | | | 10 | | | | | | 1 | ug/l | | | | |
| Sulfite (as $SO_4$) (14286-46-3) | | | 16 | | | | | | 1 | mg/l | | | | |
| Surfactants | | X | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | 0.23 | | | | | | 1 | mg/l | | | | |
| Barium, Total (7440-39-3) | | | 0.072 | | | | | | 1 | mg/l | | | | |
| Boron, Total (7440-42-8) | | | 4.9 | | | | | | 1 | mg/l | | | | |
| Cobalt, Total (7440-48-4) | | | 0.002U | | | | | | 1 | mg/l | | | | |
| Iron, Total (7439-89-6) | | | 0.38 | | | | | | 1 | mg/l | | | | |
| Magnesium Total (7439-96-4) | | | 120 | | | | | | 1 | mg/l | | | | |
| Molybdenum Total (7439-98-7) | | | 0.14 | | | | | | 1 | mg/l | | | | |
| Manganese, Total (7439-96-6) | | | 0.58 | | | | | | | | | | | |
| Tin, Total (7440-31-5) | | | 0.002U | | | | | | | | | | | |
| Titanium, Total (7440-32-6) | | | 0.002U | | | | | | | | | | | |

U = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | 0.002u | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | 0.031 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | 0.02u | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | | 0.04u | | | | | | 1 | mg/l | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | 5u | | | | | | 1 | ~~mg/l~~ ug/l | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | 5u | | | | | | 1 | ~~mg/l~~ ug/l | | | | |
| 3V. Benzene (71-43-2) | | | | 5u | | | | | | 1 | ~~mg/l~~ ug/l | | | | |
| 5V. Bromoform (75-25-2) | | | | 5u | | | | | | 1 | ~~mg/l~~ ug/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | 5u | | | | | | 1 | ~~mg/l~~ ug/l | | | | |
| 7V. Chlorobenzene (108-90-7) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | | 5u | | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5 u | | | | | | 1 | ug/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 25V. Toluene (108-88-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 1u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 10A. Phenol (108-05-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10 u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3B. Anthracene (120-12-7) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 4B. Benzidine (92-87-5) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 5B. Benzo(a)anthracene (56-55-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 6B. Benzo(a)pyrene (50-32-8) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 7B. 3,4-Benzofluoranthene (205-99-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 8B. Benzo(ghi)perylene (191-24-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 9B. Benzo(k)fluoranthene (207-08-9) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 10B. Bis(2-chloroethoxy)methane (111-91-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 11B. Bis (2-chloroisopropyl)ether | | | | 10u | | | | | | 1 | ug/l | | | | |
| 12B. Bis (2-ethylhexyl)phthalate (117-81-7) | | | | 10u | | | | | | 1 | ug/l | | | | |

u = below detection limit

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | ... | 10 u | | | | | | 1 | ug/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 17B. Chrysene (218-01-9) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 31B. Fluorene (86-73-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10 u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 37B. Isophorone (78-59-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 38B. Naphthalene (91-20-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 44B. Pyrene (129-00-0) | | | | 10 u | | | | | | 1 | ug/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10 u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO. 005**

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 190 | | | | | | 1 | mg/l | lbs/DAY | | | |
| c. Total Organic Carbon (TOC) | 54 | | | | | | 1 | mg/l | lbs/DAY | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1U | | | | | | 1 | mg/l | lbs/DAY | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

~~DATA IS BEING COLLECTED AND WILL BE FURNISHED AT A LATER DATE~~

Batch treatment

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.83 | | | | | | 1 | mg/l | lbs/D | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 96 | | | | | | 1 | mg/l | lbs/D | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 13 | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 5.1 | | | | | | 1 | mg/l | lbs/D | | | |
| h. Hardness (as $CaCO_3$) | | | 1000 | | | | | | 1 | mg/l | lbs/D | | | |
| i. Nitrate-Nitrite (as N) | | | 0.12 | | | | | | 1 | mg/l | lbs/D | | | |
| j. Nitrogen, Total Organic (as N) | | | 6 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | | | 11 | | | | | | 1 | mg/l | lbs/D | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.069 | | | | | | 1 | mg/l | lbs/D | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

art B - Continued

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate (as $SO_4$) (14808-79-8) | | | 720 | | | | | | 1 | mg/e | lbs/D | | | |
| Sulfide (as S) | | | 21 | | | | | | 1 | mg/e | lbs/D | | | |
| Sulfite (as $SO_4$) (14286-46-3) | | | 43 | | | | | | 1 | mg/e | lbs/D | | | |
| Surfactants | | X | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | 0.33 | | | | | | 1 | mg/e | lbs/D | | | |
| Barium, Total 7440-39-3) | | | 0.068 | | | | | | 1 | mg/e | lbs/D | | | |
| Boron, Total (7440-42-8) | | | 11 | | | | | | 1 | mg/e | lbs/D | | | |
| Cobalt, Total (7440-48-4) | | | 0.002 U | | | | | | 1 | mg/e | lbs/D | | | |
| Iron, Total (7439-89-6) | | | 0.78 | | | | | | 1 | mg/e | lbs/D | | | |
| Magnesium Total (7439-96-4) | | | 130 | | | | | | 1 | mg/e | lbs/D | | | |
| Molybdenum Total 7439-98-7) | | | 0.54 | | | | | | 1 | mg/e | lbs/D | | | |
| Manganese, Total (7439-96-6) | | | 0.095 | | | | | | 1 | mg/e | lbs/D | | | |
| Tin, Total (7440-31-5) | | | 0.002 U | | | | | | 1 | mg/e | lbs/D | | | |
| Titanium, Total (7440-32-6) | | | 0.002 U | | | | | | 1 | mg/e | lbs/D | | | |

art C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column or all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| M. Antimony Total (7440-36-0) | | | | 0.0076 | | | | | | 1 | mg/l | | | | |
| M. Arsenic, Total (7440-38-2) | | | | 0.13 | | | | | | 1 | mg/l | | | | |
| M. Beryllium Total (7440-41-7) | | | | 0.002U | | | | | | 1 | mg/l | | | | |
| M. Cadmium Total (7440-43-9) | | | | 0.002U | | | | | | 1 | mg/l | | | | |
| M. Chromium Total (7440-43-9) | | | | 0.0061 | | | | | | 1 | mg/l | | | | |
| M. Copper Total (7550-50-8) | | | | 0.002 | | | | | | 1 | mg/l | | | | |
| M. Lead Total (7439-92-1) | | | | 0.0051 | | | | | | 1 | mg/l | | | | |
| M. Mercury Total (7439-97-6) | | | | 0.0002U | | | | | | 1 | mg/l | | | | |
| M. Nickel, Total (7440-02-0) | | | | 0.025 | | | | | | 1 | mg/l | | | | |
| M. Selenium, Total (7782-49-2) | | | | 0.19 | | | | | | 1 | mg/l | | | | |
| M. Silver, Total (7440-28-0) | | | | 0.002U | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METALS, CYANIDE AND TOTAL PHENOLS (Continued) | | | | | | | | | | | | | | | |
| 2M. Thallium, Total (7440-28-0) | | | | 0.002u | | | | | | 1 | mg/l | | | | |
| 3M. Zinc, Total (7440-66-6) | | | | 0.9 | | | | | | 1 | mg/l | | | | |
| 4M. Cyanide, Total (57-12-5) | | | | 0.02u | | | | | | 1 | ug/l | | | | |
| 5M. Phenols, Total | | | | 10u | | | | | | 1 | ug/l | | | | |
| DIOXIN | | | | | | | | | | | | | | | |
| ,3,7,8 Tetra-hlorodibenzo, , Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| GC/MS FRACTION – VOLATILE COMPOUNDS | | | | | | | | | | | | | | | |
| V. Acrolein (107-02-8) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. crylonitrile 107-13-1) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. Benzene 71-43-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. Bromoform 75-25-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. Carbon etrachloride 56-23-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. Chloro-benzene 108-90-7) | | | | 5u | | | | | | 1 | ug/l | | | | |
| V. hlorodibro-omethane 124-48-1) | | | | 5u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | 5U | | | | | | 1 | ug/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | | | | | | 1 | ug/l | | | | |

art C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1V. Methyl Chloride (74-87-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 2V. Methylene Chloride (75-00-2) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 3V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 4V. Tetrachloro-ethylene (127-18-4) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 5V. Toluene (108-88-3) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 6V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | | | | | | 1 | ug | | | | |
| 7V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 8V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 9V. Trichloro-ethylene (79-01-6) | | | | 5u | | | | | | 1 | ug/l | | | | |
| 0V. Vinyl Chloride (75-01-4) | | | | 1u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 10A. Phenol (108-05-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10u | | | | | | 1 | ug/l | | | | |

art C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| B. Acenaphtylene (208-96-8) | | | | 10u | | | | | | 1 | ug/l | | | | |
| B. Anthracene (120-12-7) | | | | 10u | | | | | | 1 | ug/l | | | | |
| B. enzidine 2-87-5) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3. Benzo(a)-nthracene 6-55-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3. Benzo(a)-rene 0-32-8) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3. 3,4-Benzo-oranthene 05-99-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3. Benzo(ghi) erylene 91-24-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3. Benzo(k)-oranthene 07-08-9) | | | | 10u | | | | | | 1 | ug/l | | | | |
| B. Bis(2-lor-thoxy)-ethane 11-91-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| B. Bis -chlor-sopropyl)-her | | | | | | | | | | | | | | | |
| B. Bis -ethyl-xyl)-thalate 17-81-7) | | | | 10u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 17B. Chrysene (218-01-9) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 20B. 1,3-Dichloro-benzene (541-73-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 4B. Dimethyl Phthalate 131-11-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 5B. Di-N-utyl Phthalate 84-74-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 6B. 2,4-Dinitro-oluene 121-14-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 7B. 2,6-Dinitro-oluene 606-20-2) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 8B. Di-n-octyl hthalate 117-84-0) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 9B. 1,2-iphenyl-ydrazine (as zonbenzene) 122-66-7) | | | | | | | | | | | | | | | |
| 0B. luoranthene 208-44-0) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 1B. Fluorene 86-73-7) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 2B. lexachloro-enzene 118-71-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 3B. lexachloro-utadiene 87-68-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 4B. lexachloro-yclopenta-iene 77-47-4) | | | | 10u | | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 37B. Isophorone (78-59-1) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 38B. Napthalene (91-20-3) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 44B. Pyrene (129-00-0) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10u | | | | | | 1 | ug/l | | | | |

art C – Continued

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| '. Aldrin 09-00-2) | | | X | | | | | | | | | | | | |
| '. α-BHC 19-84-6) | | | X | | | | | | | | | | | | |
| . β-BHC 3-89-9) | | | X | | | | | | | | | | | | |
| mma-BHC 3-89-9) | | | X | | | | | | | | | | | | |
| . δ-BHC 19-86-8) | | | X | | | | | | | | | | | | |
| . Chlordane 7-74-9) | | | X | | | | | | | | | | | | |
| '. 4,4'-DDT 0-29-3) | | | X | | | | | | | | | | | | |
| . 4,4'-DDE 2-55-9) | | | X | | | | | | | | | | | | |
| '. 4,4'-DDD 2-54-8) | | | X | | | | | | | | | | | | |
| P. Dieldrin 0-57-1) | | | X | | | | | | | | | | | | |
| P. α- dosulfan 15-29-7) | | | X | | | | | | | | | | | | |
| P. β- dosulfan 15-29-7) | | | X | | | | | | | | | | | | |
| P. Endosulfan lfate 031-07-8) | | | X | | | | | | | | | | | | |
| P. Endrin 2-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 005

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Data is being collected and will be furnished at a latter date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 6. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| . Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| . Sulfide (as S) | | | | | | | | | | | | | | |
| . Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| . Surfactants | | | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| . Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| . Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| . Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| . Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| . Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| . Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| . Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| a. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloroethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chlor-isopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| IP. Aldrin 309-00-2) | | | | | | | | | | | | | | | |
| P. α-BHC 319-84-6) | | | | | | | | | | | | | | | |
| P. β-BHC 58-89-9) | | | | | | | | | | | | | | | |
| P. amma-BHC 58-89-9) | | | | | | | | | | | | | | | |
| P. δ-BHC 319-86-8) | | | | | | | | | | | | | | | |
| P. Chlordane 57-74-9) | | | | | | | | | | | | | | | |
| P. 4,4'-DDT 50-29-3) | | | | | | | | | | | | | | | |
| P. 4,4'-DDE 72-55-9) | | | | | | | | | | | | | | | |
| P. 4,4'-DDD 72-54-8) | | | | | | | | | | | | | | | |
| 0P. Dieldrin 60-57-1) | | | | | | | | | | | | | | | |
| 1P. α- ndosulfan 115-29-7) | | | | | | | | | | | | | | | |
| 2P. β- ndosulfan 115-29-7) | | | | | | | | | | | | | | | |
| 3P. Endosulfan ulfate 1031-07-8) | | | | | | | | | | | | | | | |
| 4P. Endrin 72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 006

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 23 | 312 | | | | | 1 | mg/l | lbs/D | | | |
| c. Total Organic Carbon (TOC) | 13 | 176 | | | | | 1 | mg/l | lbs/D | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1.4 | 13.6 | | | | | 1 | mg/l | lbs/D | | | |
| f. Flow (In units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

~~DATA is being collected and will be furnished at a later date~~

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 6. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 6. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.02 U | 0.27 | | | | | 1 | mg/l | lbs/D | | | |
| b. Bromine Total Residual | | | | | | | | | | | 1 | | | |
| c. Chloride | | | 48 | 652 | | | | | 1 | mg/l | lbs/D | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 1 U | 13.6 | | | | | 1 | mg/l | lbs/D | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 0.59 | 8 | | | | | 1 | mg/l | lbs/D | | | |
| h. Hardness (as $CaCO_3$) | | | 700 | 9,515 | | | | | 1 | mg/l | lbs/D | | | |
| i. Nitrate – Nitrite (as N) | | | 0.1 U | 1.3 | | | | | 1 | mg/l | lbs/D | | | |
| j. Nitrogen, Total Organic (as N) | | | 1.6 | 21.7 | | | | | 1 | mg/l | lbs/D | | | |
| k. Oil and Grease | | | 1 U | 13.6 | | | | | 1 | mg/l | lbs/D | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 1.1 | 14.9 | | | | | 1 | mg/l | lbs/D | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| h. Sulfate (as $SO_4$) (14808-79-8) | | | 570 | 7748 | | | | | 1 | mg/l | | | | |
| i. Sulfide (as S) | | | 4 | 54.4 | | | | | 1 | mg/l | | | | |
| j. Sulfite (as $SO_4$) (14286-46-3) | | | 6 | 81.6 | | | | | 1 | mg/l | | | | |
| k. Surfactants | | X | | | | | | | | | | | | |
| l. Aluminum, Total (7429-90) | | | 0.8 | 10.9 | | | | | 1 | mg/l | | | | |
| m. Barium, Total (7440-39-3) | | | 0.16 | 2.1 | | | | | 1 | mg/l | | | | |
| n. Boron, Total (7440-42-8) | | | 0.6 | 8.1 | | | | | 1 | mg/l | | | | |
| o. Cobalt, Total (7440-48-4) | | | 0.002 U | 0.02 | | | | | 1 | mg/l | | | | |
| p. Iron, Total (7439-89-6) | | | 1.5 | 20.4 | | | | | 1 | mg/l | | | | |
| q. Magnesium Total (7439-96-4) | | | 52 | 706.9 | | | | | 1 | mg/l | | | | |
| r. Molybdenum Total (7439-98-7) | | | 0.016 | 0.2 | | | | | 1 | mg/l | | | | |
| s. Manganese, Total (7439-96-6) | | | 0.14 | 1.9 | | | | | 1 | mg/l | | | | |
| t. Tin, Total (7440-31-5) | | | 0.002 U | 0.02 | | | | | 1 | mg/l | | | | |
| u. Titanium, Total (7440-32-6) | | | 0.0038 | 0.05 | | | | | 1 | mg/l | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 5M. Chromium Total (7440-43-9) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 6M. Copper Total (7550-50-8) | | | | 0.048 | 0.6 ~~0.02~~ | | | | | 1 | mg/L | | | | |
| 7M. Lead Total (7439-92-1) | | | | 0.0037 | 0.05 | | | | | 1 | mg/L | | | | |
| 8M. Mercury Total (7439-97-6) | | | | 0.0002 U | 0.02 | | | | | 1 | mg/L | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | 0.012 | 0.16 | | | | | 1 | mg/L | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | 0.0079 | 0.10 | | | | | 1 | mg/L | | | | |
| 11M. Silver, Total (7440-28-0) | | | | 0.002 U | 0.02 | | | | | 1 | mg/L | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | 0.003B | 0.05 | | | | | 1 | mg/L | lbs/D | | | |
| 13M. Zinc, Total (7440-66-6) | | | | 0.022 | 0.3 | | | | | 1 | mg/L | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | 0.02U | 0.27 | | | | | 1 | mg/L | | | | |
| 15M. Phenols, Total | | | | 10U | 135.9 | | | | | 1 | mg/L | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetrachlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | 5U | 0.06 | | | | | 1 | ug/L | lbs/DAY | | | |
| 2V. Acrylonitrile (107-13-1) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |
| 3V. Benzene (71-43-2) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |
| 5V. Bromoform (75-25-2) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |
| 7V. Chlorobenzene (108-90-7) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |
| 8V. Chlorodibromomethane (124-48-1) | | | | 5U | 0.06 | | | | | 1 | ug/L | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | 0.06 | | | | | 1 | ug/l | lbs/D | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 11V. Chloroform (67-66-3) | | | | 9 | 122 | | | | | 1 | ug/l | | | | |
| 12V. Dichlorobromomethane (75-71-8) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5 u | 0.06 | | | | | 1 | ug/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 18V. 1,3-Dichloropropylene (452-75-6) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 19V. Ethylbenzene (100-41-4) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 23V. 1,1,2,2-Tetrachloroethane (79-34-5) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 24V. Tetrachloroethylene (127-18-4) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 25V. Toluene (108-88-3) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 26V. 1,2-Trans-Dichloroethylene (156-60-5) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 27V. 1,1,1-Trichloroethane (71-55-6) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 28V. 1,1,2-Trichloroethane (79-00-5) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 29V. Trichloroethylene (79-01-6) | | | | 5u | 0.06 | | | | | 1 | ug/L | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 1u | 0.01 | | | | | 1 | ug/L | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10u | 0.14 | | | | | 1 | ug/l | lbs/D | | | |
| 10A. Phenol (108-05-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | 10u | 0.14 | | | | | 1 | ug/l | 1005/D | | | |
| 3B. Anthracene (120-12-7) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 4B. Benzidine 92-87-5) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 5B. Benzo(a)-anthracene 56-55-3) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 6B. Benzo(a)-pyrene 50-32-8) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 7B. 3,4-Benzo-fluoranthene 205-99-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 8B. Benzo(ghi) perylene 191-24-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 9B. Benzo(k)-fluoranthene 207-08-9) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 10B. Bis(2-chlor-ethoxy)-methane 111-91-1) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 11B. Bis 2-chlor-isopropyl)-ether | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |
| 12B. Bis 2-ethyl-exyl)-phthalate 117-81-7) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromophenyl Phenyl ether (101-55-3) | | | ... | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 15B. 2-Chloronaphthalene (7005-72-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 16B. 4-Chlorophenyl phenyl ether (7005-72-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 17B. Chrysene (218-01-9) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 19B. 1,2-Dichlorobenzene (95-50-1) | | | | 5u | 0.06 | | | | | 1 | ug/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 21B. 1,4-Dichlorobenzene (106-46-7) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 22B. 3,3-Dichlorobenzidene (91-94-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10u | 0.14 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | lbs/D | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 30B. Fluoranthene (208-44-0) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 31B. Fluorene (86-73-7) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | lbs/Day | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 37B. Isophorone (78-59-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 38B. Napthalene (91-20-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 44B. Pyrene (129-00-0) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10 u | 0.14 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 006

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | 3. UNITS (specify if blank) b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 4. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 4. INTAKE (optional) b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (In units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Data is being collected and will be furnished at a latter date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 6. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | b. Maximum 30-Day Value (If available) (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | c. Long-Term Avg. Value (If available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| i. Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| ). Sulfide (as S) | | | | | | | | | | | | | | |
| ). Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| ). Surfactants | | | | | | | | | | | | | | |
| . Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| . Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| . Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| ). Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| '. Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| v. Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| t. Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| '. Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| . Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| a. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | b. Maximum 30-Day Value (If available) (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | c. Long-Term Avg. Value (If available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine 92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)anthracene 56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)pyrene 50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzofluoranthene 205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi)perylene 191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)fluoranthene 207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chloroethoxy)methane 111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chloroisopropyl)ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)phthalate 117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. Gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 007

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

DATA is being collected AND will be furnished at a latter date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| . Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| . Sulfide (as S) | | | | | | | | | | | | | | |
| . Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| . Surfactants | | | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| . Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| . Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| . Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| . Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| . Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| . Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| . Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| a. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chlor-isopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthrncene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| P. Aldrin 309-00-2) | | | | | | | | | | | | | | | |
| P. α-BHC 319-84-6) | | | | | | | | | | | | | | | |
| P. β-BHC 58-89-9) | | | | | | | | | | | | | | | |
| P. amma-BHC 58-89-9) | | | | | | | | | | | | | | | |
| P. δ-BHC 319-86-8) | | | | | | | | | | | | | | | |
| P. Chlordane 57-74-9) | | | | | | | | | | | | | | | |
| P. 4,4'-DDT 50-29-3) | | | | | | | | | | | | | | | |
| P. 4,4'-DDE 72-55-9) | | | | | | | | | | | | | | | |
| P. 4,4'-DDD 72-54-8) | | | | | | | | | | | | | | | |
| 0P. Dieldrin 60-57-1) | | | | | | | | | | | | | | | |
| 1P. α- ndosulfan 115-29-7) | | | | | | | | | | | | | | | |
| 2P. β- ndosulfan 115-29-7) | | | | | | | | | | | | | | | |
| 3P. Endosulfan ulfate 1031-07-8) | | | | | | | | | | | | | | | |
| 4P. Endrin 72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS** (Continued from page 3 of Form C) — **OUTFALL NO.** 008

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °C | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

DATA is being collected and will be furnished at a latter date.

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ). Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| ). Sulfide (as S) | | | | | | | | | | | | | | |
| ). Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| ). Surfactants | | | | | | | | | | | | | | |
| . Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| . Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| . Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| ). Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| '. Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| v. Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| :. Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| '. Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| :. Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| a. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chlor-oisopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromophenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butylbenzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloronaphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chlorophenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichlorobenzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Diehloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichlorobenzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichlorobenzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 009

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Data is being collected and will be ~~either~~ furnished at a later date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | | 4. UNITS | | 6. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate–Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | b. Maximum 30-Day Value (If available) (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | c. Long-Term Avg. Value (If available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| l. Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| ). Sulfide (as S) | | | | | | | | | | | | | | |
| ). Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| . Surfactants | | | | | | | | | | | | | | |
| . Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| . Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| . Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| . Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| ). Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| . Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| . Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| . Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| a. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichloroethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chlor-isopropyl)-ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

**RINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing ages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 009

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | a. (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | a. (2) Mass | b. No of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | | | | | | | 1 | mg/l | lbs/D | | | |
| b. Chemical Oxygen Demand (COD) | 23 | 1064 | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 13 | 601 | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | 1 u | 46.3 | | | | | 1 | ~~mg/l~~ mg/l | lbs/D | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

~~Data~~ is ~~being~~ collected ~~and will be collect~~ furnished at a latter date

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | | 0.37 | 17.1 | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | 45 | 2082 | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | 1U | 46.3 | | | | | 1 | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | 0.98 | 45.4 | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | | | 1500 | 69430 | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | | | 0.1U | 4.6 | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | | | 4.4 | 203.7 | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | | | 1U | 46.3 | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | 0.024 | 1.1 | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

art B - Continued

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate (as $SO_4$) (14808-79-8) | | | 1200 | 55,544 | | | | | 1 | mg/l | | | | |
| Sulfide (as S) | | | 2. | 92.6 | | | | | 1 | mg/l | | | | |
| Sulfite (as $SO_4$) (14286-46-3) | | | ~~1200~~ 2 | 92.6 | | | | | 1 | mg/l | | | | |
| Surfactants | | X | | | | | | | | | | | | |
| Aluminum, Total (7429-90) | | | 0.48 | 22.2 | | | | | 1 | mg/l | | | | |
| Barium, Total 7440-39-3) | | | 0.1 | 4.6 | | | | | 1 | mg/l | | | | |
| Boron, Total (7440-42-8) | | | 2.4 | 111 | | | | | 1 | mg/l | | | | |
| Cobalt, Total (7440-48-4) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| Iron, Total (7439-89-6) | | | 1.1 | 509 | | | | | 1 | mg/l | | | | |
| Magnesium Total (7439-96-4) | | | 23 | 1064 | | | | | 1 | mg/l | | | | |
| Molybdenum Total 7439-98-7) | | | 1.2 | 55 | | | | | 1 | mg/l | | | | |
| Manganese, Total (7439-96-6) | | | 0.016 | 75 | | | | | 1 | mg/l | | | | |
| Tin, Total (7440-31-5) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| Titanium, Total (7440-32-6) | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |

art C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column r all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required C/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark ther the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete e table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| M. Antimony Total (7440-36-0) | | | | 0.0098 | 0.45 | | | | | 1 | mg/l | | | | |
| M. Arsenic, Total (7440-38-2) | | | | 0.12 | 5.6 | | | | | 1 | mg/l | | | | |
| M. Beryllium Total (7440-41-7) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| M. Cadmium Total (7440-43-9) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| M. Chromium Total (7440-43-9) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| M. Copper Total (7550-50-8) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| M. Lead Total (7439-92-1) | | | | 0.0029 | 0.09 | | | | | 1 | mg/l | | | | |
| M. Mercury Total (7439-97-6) | | | | 0.0002 U | 0.009 | | | | | 1 | mg/l | | | | |
| M. Nickel, Total (7440-02-0) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |
| M. Selenium, Total (7782-49-2) | | | | 0.019 | 0.88 | | | | | 1 | mg/l | | | | |
| M. Silver, Total (7440-28-0) | | | | 0.002 U | 0.09 | | | | | 1 | mg/l | | | | |

'art C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| METALS, CYANIDE AND TOTAL PHENOLS (Continued) | | | | | | | | | | | | | | | |
| 2M. Thallium, Total (7440-28-0) | | | | 0.002u | 009 | | | | | 1 | ug/l | lbs/DAY | | | |
| 3M. Zinc, Total (7440-66-6) | | | | 0.03 | 1.4 | | | | | 1 | ug/l | | | | |
| 4M. Cyanide, Total (57-12-5) | | | | 0.02u | 0.9 | | | | | 1 | ug/l | | | | |
| 5M. Phenols, Total | | | | 10u | 462.9 | | | | | 1 | ug/l | | | | |
| DIOXIN | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| GC/MS FRACTION – VOLATILE COMPOUNDS | | | | | | | | | | | | | | | |
| V. Acrolein (107-02-8) | | | | 5u | 0.2 | | | | | 1 | ug/l | lbs/DAY | | | |
| V. Acrylonitrile (107-13-1) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| V. Benzene (71-43-2) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| V. Bromoform (75-25-2) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| V. Carbon Tetrachloride (56-23-5) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| V. Chloro-benzene (108-90-7) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| V. Chlorodibro-momethane (124-48-1) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | 5u | 0.2 | | | | | 1 | ug/l | 165 lbs/day | | | |
| 10V. 2-Chloroethylvinyl Ether (110-75-8) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 11V. Chloroform (67-66-3) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 12V. Dichlorobromomethane (75-71-8) | | | | 5 u | 0.2 | | | | | 1 | ug/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 17V. 1,2-Dichloropropane (78-87-5) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 18V. 1,3-Dichloropropylene (452-75-6) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 19V. Ethylbenzene (100-41-4) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | 5u | 0.2 | | | | | 1 | ug/l | 1bs/day | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 25V. Toluene (108-88-3) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | 5u | 0.2 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | 10 u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 10A. Phenol (108-05-2) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |

art C – Continued

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 33. Acenaphtylene (208-96-8) | | | | 10u | 0.4 | | | | | 1 | ug/l | lbs/d | | | |
| 34. Anthracene (120-12-7) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 35. Benzidine (92-87-5) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 36. Benzo(a)-anthracene (56-55-3) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 37. Benzo(a)-pyrene (50-32-8) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 38. 3,4-Benzo-fluoranthene (205-99-2) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 39. Benzo(ghi) perylene (191-24-2) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 40. Benzo(k)-fluoranthene (207-08-9) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 41. Bis(2-chloroethoxy)-methane (111-91-1) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 42. Bis (2-chloroisopropyl)-ether | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 43. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | ... | 10 u | 0.4 | | | | | 1 | ug/l | lbs/D | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 17B. Chrysene (218-01-9) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 34B. Dimethyl Phthalate (131-11-3) | | | | 10u | 0.4 | | | | | 1 | ug/l | 155/Day | | | |
| 35B. Di-N-butyl Phthalate (84-74-2) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 36B. 2,4-Dinitro-toluene (121-14-2) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 37B. 2,6-Dinitro-toluene (606-20-2) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 38B. Di-n-octyl Phthalate (117-84-0) | | | | 10u | | | | | | 1 | ug/l | | | | |
| 39B. 1,2-Diphenyl-hydrazine (as Azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 40B. Fluoranthene (206-44-0) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 41B. Fluorene (86-73-7) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 42B. Hexachloro-benzene (118-71-1) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 43B. Hexachloro-butadiene (87-68-3) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |
| 44B. Hexachloro-cyclopenta-diene (77-47-4) | | | | 10u | 0.4 | | | | | 1 | ug/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | lbs/day | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 37B. Isophorone (78-59-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 38B. Napthalene (91-20-3) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 43B. Phenanthrene (85-01-8) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 44B. Pyrene (129-00-0) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | 10 u | 0.4 | | | | | 1 | ug/l | | | | |

'art C – Continued

| 1. POLLUTANT and CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| P. Aldrin 309-00-2) | | | X | | | | | | | | | | | | |
| P. α-BHC 19-84-6) | | | X | | | | | | | | | | | | |
| P. β-BHC 8-89-9) | | | X | | | | | | | | | | | | |
| P. mma-BHC 8-89-9) | | | X | | | | | | | | | | | | |
| P. δ-BHC 19-86-8) | | | X | | | | | | | | | | | | |
| P. Chlordane 7-74-9) | | | X | | | | | | | | | | | | |
| P. 4,4'-DDT 0-29-3) | | | X | | | | | | | | | | | | |
| P. 4,4'-DDE 2-55-9) | | | X | | | | | | | | | | | | |
| P. 4,4'-DDD 2-54-8) | | | X | | | | | | | | | | | | |
| DP. Dieldrin 0-57-1) | | | X | | | | | | | | | | | | |
| IP. α- ndosulfan 15-29-7) | | | X | | | | | | | | | | | | |
| 2P. β- ndosulfan 15-29-7) | | | X | | | | | | | | | | | | |
| 3P. Endosulfan ulfate 031-07-8) | | | X | | | | | | | | | | | | |
| 4P. Endrin 72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29231** 001 Collected: 05/11/00 | | | | | | | |
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 10 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 5 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 750 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.23 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.021 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.069 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 4.4 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.0026 | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.36 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0032 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 110 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.5 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.026 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.072 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0033 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.024 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.38 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 59 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 880 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 1.94 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 14 | mg/l | 1 | |

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Received: 05/11/00
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Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29231** 001 Collected: 05/11/00 | | | | | | | |
| Sulfite | 05/15/00 | DP | EPA 377.1 | 14 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 65 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Received: 05/11/00
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Client: WE0394


**AA29231** 001 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Attn: Ken Daniel
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Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29231** 001 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 22 | mg/l | 0.5 | |

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**AA29231** 001 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 10 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 5 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 750 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.23 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.021 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.069 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 4.4 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.0026 | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.36 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0032 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 110 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.5 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.026 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.072 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0033 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.024 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.38 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 59 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 880 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 1.94 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 14 | mg/l | 1 | |

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Client: WE0394


**AA29231** 001 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 14 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 65 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29231** 001 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29231** 001 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 22 | mg/l | 0.5 | |

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**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 10 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 13 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 640 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.3 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.0024 | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.013 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.043 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.5 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0031 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 20 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.24 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.33 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.041 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.009 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.064 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.0023 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 36 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 600 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.61 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1.9 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 2 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 6 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 25 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Client: WE0394


**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 11 | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29232** 002 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 10 | mg/l | 0.5 | |

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Western Kenucky Energy
Attn: Ken Daniel
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**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 10 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 13 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 640 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.3 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.0024 | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.013 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.043 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.5 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0031 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 20 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.24 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.33 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.041 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.009 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.064 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.0023 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 36 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 600 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.61 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1.9 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 2 | mg/l | 1 | |

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Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 6 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 25 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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**AA29232** 002 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 11 | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29232** 002 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 10 | mg/l | 0.5 | |

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**AA29233** 003 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 23 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 33 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 220 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.47 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.05 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 0.44 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.29 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0032 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 19 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.22 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.017 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.05 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.0038 | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.0094 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 11 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.67 | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.1 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 110 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.43 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1 U | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 1 U | mg/l | 1 | |

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|---|---|---|---|---|---|---|---|
| **AA29233** 003 Collected: 05/11/00 | | | | | | | |
| Sulfite | 05/15/00 | DP | EPA 377.1 | 2 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 10 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29233** 003 Collected: 05/11/00 | | | | | | | |
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Received: 05/11/00
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Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29233** 003 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 1 U | mg/l | 0.5 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29233** 003 Collected: 05/11/00 | | | | | | | |
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 23 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 33 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 220 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.47 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.05 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 0.44 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.29 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0032 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 19 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.22 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.017 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.05 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.0038 | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.0094 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 11 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.67 | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.1 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 110 | mg/l | 1 | |
| Cyanide Total | 05/17/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.43 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1 U | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 1 U | mg/l | 1 | |

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Received: 05/11/00
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Client: WE0394


**AA29233** 003 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 2 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 10 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Received: 05/11/00
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**AA29233** 003 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29233** 003 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 1 U | mg/l | 0.5 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29234** 004 Collected: 05/11/00 | | | | | | | |
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 1 U | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 5 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 760 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.23 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.022 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.072 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 4.9 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.38 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0031 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 120 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.58 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.034 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.092 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.073 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0052 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.031 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.4 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 59 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 900 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 2.02 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 10 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29234** 004 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 16 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 56 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29234** 004 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Island KY 42350

Received: 05/11/00
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Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29234** 004 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 21 | mg/l | 0.5 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29234** 004 Collected: 05/11/00 | | | | | | | |
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 1 U | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 5 | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 760 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.23 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.022 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.072 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 4.9 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 0.38 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0031 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 120 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.58 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.034 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.092 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.073 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0052 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.031 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.4 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 59 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 900 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 2.02 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 10 | mg/l | 1 | |

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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29234** 004 Collected: 05/11/00 | | | | | | | |
| Sulfite | 05/15/00 | DP | EPA 377.1 | 16 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 56 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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**AA29234** 004 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29234** 004 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 21 | mg/l | 0.5 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32699** 005 Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 06/02/00 | DP | EPA 110.0 | 14 | ADMI | 1 | |
| Color,ADMI | 06/02/00 | DP | EPA 110.1 | 13 | ADMI | 1 | |
| Hardness as CaCO3 | 05/02/00 | LN | EPA 130.2 | 1000 | mg/l | 1 | |
| Oil & Grease, Total | 06/06/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 06/05/00 | CME | EPA 200.8 | 0.33 | mg/l | 0.001 | |
| Antimony | 06/05/00 | CME | EPA 200.8 | 0.0076 | mg/l | 0.001 | |
| Arsenic | 06/05/00 | CME | EPA 200.8 | 0.13 | mg/l | 0.001 | |
| Barium | 06/05/00 | CME | EPA 200.8 | 0.068 | mg/l | 0.001 | |
| Beryllium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 06/05/00 | CME | EPA 200.8 | 11 | mg/l | 0.01 | |
| Cadmium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 06/05/00 | CME | EPA 200.8 | 0.0061 | mg/l | 0.001 | |
| Cobalt | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 06/05/00 | CME | EPA 200.8 | 0.78 | mg/l | 0.01 | |
| Lead | 06/05/00 | CME | EPA 200.8 | 0.0051 | mg/l | 0.001 | |
| Magnesium | 06/05/00 | CME | EPA 200.8 | 130 | mg/l | 0.05 | |
| Manganese | 06/05/00 | CME | EPA 200.8 | 0.095 | mg/l | 0.001 | |
| Mercury | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.0001 | |
| Molybdenum | 06/05/00 | CME | EPA 200.8 | 0.54 | mg/l | 0.01 | |
| Nickel | 06/05/00 | CME | EPA 200.8 | 0.025 | mg/l | 0.001 | |
| Phosphorus | 06/05/00 | CME | EPA 200.8 | 0.069 | mg/l | 0.001 | |
| Selenium | 06/05/00 | CME | EPA 200.8 | 0.19 | mg/l | 0.001 | |
| Silver | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 06/05/00 | CME | EPA 200.8 | 0.12 | mg/l | 0.001 | |
| Zinc | 06/05/00 | CME | EPA 200.8 | 0.9 | mg/l | 0.001 | |
| Bromide | 06/01/00 | LN | EPA 300.0 | 0.83 | mg/l | 0.2 | |
| Chloride | 06/01/00 | LN | EPA 300.0 | 96 | mg/l | 1 | |
| Nitrate as N | 06/01/00 | LN | EPA 300.0 | 0.12 | mg/l | 0.1 | |
| Nitrite as N | 06/01/00 | LN | EPA 300.0 | 0.71 | mg/l | 0.02 | |
| Sulfate | 06/01/00 | LN | EPA 300.0 | 720 | mg/l | 1 | |
| Cyanide Total | 06/06/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 06/07/00 | GC | EPA 340.2 | 5.1 | mg/l | 0.2 | |
| Ammonia as N | 06/06/00 | BO | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 06/02/00 | GC | EPA 351.2 | 6 | mg/l | 1 | |
| Total Sulfide | 06/09/00 | GC | EPA 376.1 | 21 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA32699** 005 Collected: 05/31/00 | | | | | | | |
| Sulfite | 06/02/00 | LN | EPA 377.1 | 43 | mg/l | 1 | |
| Chemical Oxygen Demand | 06/05/00 | DP | EPA 410.4 | 190 | mg/l | 1 | |
| Phenols, Total | 06/02/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 06/02/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 06/01/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32699** 005 Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA32699** 005 Collected: 05/31/00 | | | | | | | |
| Nitrobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 06/15/00 | DP | SM 5310C | 54 | mg/l | 0.5 | |

**Submitted By:** Doug Wolfe

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Received: 05/31/00
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Client: WE0394


**AA32699** 005 Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 06/02/00 | DP | EPA 110.0 | 14 | ADMI | 1 | |
| Color,ADMI | 06/02/00 | DP | EPA 110.1 | 13 | ADMI | 1 | |
| Hardness as CaCO3 | 05/02/00 | LN | EPA 130.2 | 1000 | mg/l | 1 | |
| Oil & Grease, Total | 06/06/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 06/05/00 | CME | EPA 200.8 | 0.33 | mg/l | 0.001 | |
| Antimony | 06/05/00 | CME | EPA 200.8 | 0.0076 | mg/l | 0.001 | |
| Arsenic | 06/05/00 | CME | EPA 200.8 | 0.13 | mg/l | 0.001 | |
| Barium | 06/05/00 | CME | EPA 200.8 | 0.068 | mg/l | 0.001 | |
| Beryllium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 06/05/00 | CME | EPA 200.8 | 11 | mg/l | 0.01 | |
| Cadmium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 06/05/00 | CME | EPA 200.8 | 0.0061 | mg/l | 0.001 | |
| Cobalt | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 06/05/00 | CME | EPA 200.8 | 0.78 | mg/l | 0.01 | |
| Lead | 06/05/00 | CME | EPA 200.8 | 0.0051 | mg/l | 0.001 | |
| Magnesium | 06/05/00 | CME | EPA 200.8 | 130 | mg/l | 0.05 | |
| Manganese | 06/05/00 | CME | EPA 200.8 | 0.095 | mg/l | 0.001 | |
| Mercury | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.0001 | |
| Molybdenum | 06/05/00 | CME | EPA 200.8 | 0.54 | mg/l | 0.01 | |
| Nickel | 06/05/00 | CME | EPA 200.8 | 0.025 | mg/l | 0.001 | |
| Phosphorus | 06/05/00 | CME | EPA 200.8 | 0.069 | mg/l | 0.001 | |
| Selenium | 06/05/00 | CME | EPA 200.8 | 0.19 | mg/l | 0.001 | |
| Silver | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 06/05/00 | CME | EPA 200.8 | 0.12 | mg/l | 0.001 | |
| Zinc | 06/05/00 | CME | EPA 200.8 | 0.9 | mg/l | 0.001 | |
| Bromide | 06/01/00 | LN | EPA 300.0 | 0.83 | mg/l | 0.2 | |
| Chloride | 06/01/00 | LN | EPA 300.0 | 96 | mg/l | 1 | |
| Nitrate as N | 06/01/00 | LN | EPA 300.0 | 0.12 | mg/l | 0.1 | |
| Nitrite as N | 06/01/00 | LN | EPA 300.0 | 0.71 | mg/l | 0.02 | |
| Sulfate | 06/01/00 | LN | EPA 300.0 | 720 | mg/l | 1 | |
| Cyanide Total | 06/06/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 06/07/00 | GC | EPA 340.2 | 5.1 | mg/l | 0.2 | |
| Ammonia as N | 06/06/00 | BO | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 06/02/00 | GC | EPA 351.2 | 6 | mg/l | 1 | |
| Total Sulfide | 06/09/00 | GC | EPA 376.1 | 21 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA32699** 005 Collected: 05/31/00 | | | | | | | |
| Sulfite | 06/02/00 | LN | EPA 377.1 | 43 | mg/l | 1 | |
| Chemical Oxygen Demand | 06/05/00 | DP | EPA 410.4 | 190 | mg/l | 1 | |
| Phenols, Total | 06/02/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 06/02/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 06/01/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32699** 005 Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Received: 05/31/00
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| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA32699** 005 Collected: 05/31/00 | | | | | | | |
| Hexachloroethane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 06/15/00 | DP | SM 5310C | 54 | mg/l | 0.5 | |

**Submitted By:**
Doug Wolfe

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Western Kenucky Energy
Attn: Ken Daniel
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P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 9 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 1 U | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 700 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.8 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.16 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 0.6 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.048 | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 1.5 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0037 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 52 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.016 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.012 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.0079 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.0038 | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0033 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.022 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 48 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 6.8 | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 570 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.59 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1.6 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 4 | mg/l | 1 | |

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Received: 05/11/00
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Client: WE0394


**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 6 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 23 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 9 | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Received: 05/11/00
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**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29235** 006 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 13 | mg/l | 0.5 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 9 | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 1 U | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 700 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.8 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.16 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 0.6 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.048 | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 1.5 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0037 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 52 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.14 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 0.016 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.012 | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.0079 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.0038 | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.0033 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.022 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.02 U | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 48 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 6.8 | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 570 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.59 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 1.6 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 4 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 6 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 23 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 9 | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29235** 006 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29235** 006 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 13 | mg/l | 0.5 | |

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Western Kenucky Energy
Attn Ed Chisolm
Reid #1-HMP&L-Green Stations
Jct 2096 & 2097
Sebree Ky 42455

Received: 06/27/00
Reported: 07/24/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA38398** 008 Wilson Station Collected: 06/27/00 | | | | | | | |
| 625 analysis - Matrix interference with 2-fluorophenol and phenol d5 surrogate recoveries. MTC | | | | | | | |
| Color ADMI, pH 7.6 | 06/30/00 | DP | EPA 110.0 | 1 U | ADMI | 1 | |
| Color,ADMI | 06/30/00 | DP | EPA 110.1 | 1 U | ADMI | 1 | |
| Hardness as CaCO3 | 07/07/00 | LN | EPA 130.2 | 180 | mg/l | 1 | |
| Oil & Grease, Total | 07/03/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 07/05/00 | CME | EPA 200.8 | 1.3 | mg/l | 0.001 | |
| Antimony | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Barium | 07/05/00 | CME | EPA 200.8 | 0.042 | mg/l | 0.001 | |
| Beryllium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 07/05/00 | CME | EPA 200.8 | 0.07 | mg/l | 0.01 | |
| Cadmium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 07/05/00 | CME | EPA 200.8 | 0.69 | mg/l | 0.01 | |
| Lead | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Magnesium | 07/05/00 | CME | EPA 200.8 | 8.9 | mg/l | 0.05 | |
| Manganese | 07/05/00 | CME | EPA 200.8 | 0.13 | mg/l | 0.001 | |
| Mercury | 07/05/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 07/05/00 | CME | EPA 200.8 | 0.02 U | mg/l | 0.01 | |
| Nickel | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 07/05/00 | CME | EPA 200.8 | 0.034 | mg/l | 0.001 | |
| Selenium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Silver | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 07/05/00 | CME | EPA 200.8 | 0.024 | mg/l | 0.001 | |
| Vanadium | 07/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Zinc | 07/05/00 | CME | EPA 200.8 | 0.0055 | mg/l | 0.001 | |
| Bromide | 07/06/00 | DP | EPA 300.0 | 1 U | mg/l | 0.2 | |
| Chloride | 07/06/00 | DP | EPA 300.0 | 12 | mg/l | 1 | |
| Nitrate as N | 07/06/00 | DP | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 07/06/00 | DP | EPA 300.0 | 0.02 U | mg/l | 0.10 | |
| Sulfate | 07/06/00 | DP | EPA 300.0 | 140 | mg/l | 1 | |
| Cyanide Total | 06/29/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 06/29/00 | GC | EPA 340.2 | 0.2 U | mg/l | 0.2 | |
| Ammonia as N | 07/05/00 | MD | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 07/05/00 | GC | EPA 351.2 | 1 U | mg/l | 1 | |

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Western Kenucky Energy
Attn Ed Chisolm
Reid #1-HMP&L-Green Stations
Jct 2096 & 2097
Sebree Ky 42455

Received: 06/27/00
Reported: 07/24/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA38398** 008 Wilson Station Collected: 06/27/00 | | | | | | | |
| 625 analysis - Matrix interference with 2-fluorophenol and phenol d5 surrogate recoveries. MTC | | | | | | | |
| Total Sulfide | 06/29/00 | GC | EPA 376.1 | 1 U | mg/l | 1 | |
| Sulfite | 07/13/00 | LN | EPA 377.1 | 1 U | mg/l | 1 | |
| Chemical Oxygen Demand | 07/03/00 | DP | EPA 410.4 | 19 | mg/l | 1 | |
| Phenols, Total | 06/30/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 07/05/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,3-Dichlorobenzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,4-Dichlorobenzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Butanone | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Hexanone | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 4-Methyl-2-Pentanone | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acetone | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 06/28/00 | JEB | EPA 624 | 16 | ug/l | 5 | |
| Bromoform | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Disulfide | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 06/28/00 | JEB | EPA 624 | 85 | ug/l | 5 | |
| Chloromethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| m,p-Xylene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |

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Western Kenucky Energy
Attn Ed Chisolm
Reid #1-HMP&L-Green Stations
Jct 2096 & 2097
Sebree Ky 42455

Received: 06/27/00
Reported: 07/24/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA38398** 008 Wilson Station Collected: 06/27/00 | | | | | | | |
| 625 analysis - Matrix interference with 2-fluorophenol and phenol d5 surrogate recoveries. MTC | | | | | | | |
| o-Xylene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Styrene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichlorofluoromethane | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Acetate | 06/28/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 06/28/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,2'-oxybis(1-Chloropropane) | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4,5-trichlorophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4,6-Trichlorophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn Ed Chisolm
Reid #1-HMP&L-Green Stations
Jct 2096 & 2097
Sebree Ky 42455

Received: 06/27/00
Reported: 07/24/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA38398** 008 Wilson Station Collected: 06/27/00 | | | | | | | |
| 625 analysis - Matrix interference with 2-fluorophenol and phenol d5 surrogate recoveries. MTC | | | | | | | |
| Benzo(k)fluoranthene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 07/06/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 07/19/00 | LN | SM 5310C | 3.1 | mg/l | 0.5 | |

**Submitted By:**

Doug Wolfe

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29236** 009 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 1 U | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 1 U | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 1500 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.48 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.0098 | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.12 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.1 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 2.4 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0029 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 23 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.016 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 1.2 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.024 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.019 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.56 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.03 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.37 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 45 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 1200 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.98 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 2 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29236** 009 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 05/15/00 | DP | EPA 377.1 | 2 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 23 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29236** 009 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29236** 009 Collected: 05/11/00 | | | | | | | |
| Hexachloroethane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 13 | mg/l | 0.5 | |

**Submitted By:**

Doug Wolfe

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29236** 009 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 05/16/00 | LN | EPA 110.0 | 1 U | ADMI | 1 | |
| Color,ADMI | 05/16/00 | LN | EPA 110.1 | 1 U | ADMI | 1 | |
| Hardness as CaCO3 | 05/18/00 | LN | EPA 130.2 | 1500 | mg/l | 1 | |
| Oil & Grease, Total | 05/18/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 05/22/00 | CME | EPA 200.8 | 0.48 | mg/l | 0.001 | |
| Antimony | 05/22/00 | CME | EPA 200.8 | 0.0098 | mg/l | 0.001 | |
| Arsenic | 05/22/00 | CME | EPA 200.8 | 0.12 | mg/l | 0.001 | |
| Barium | 05/22/00 | CME | EPA 200.8 | 0.1 | mg/l | 0.001 | |
| Beryllium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 05/22/00 | CME | EPA 200.8 | 2.4 | mg/l | 0.01 | |
| Cadmium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Iron | 05/22/00 | CME | EPA 200.8 | 1.1 | mg/l | 0.01 | |
| Lead | 05/22/00 | CME | EPA 200.8 | 0.0029 | mg/l | 0.001 | |
| Magnesium | 05/22/00 | CME | EPA 200.8 | 23 | mg/l | 0.05 | |
| Manganese | 05/22/00 | CME | EPA 200.8 | 0.016 | mg/l | 0.001 | |
| Mercury | 05/22/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 05/22/00 | CME | EPA 200.8 | 1.2 | mg/l | 0.01 | |
| Nickel | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Phosphorus | 05/22/00 | CME | EPA 200.8 | 0.024 | mg/l | 0.001 | |
| Selenium | 05/22/00 | CME | EPA 200.8 | 0.019 | mg/l | 0.001 | |
| Silver | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Tin | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 05/22/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 05/22/00 | CME | EPA 200.8 | 0.56 | mg/l | 0.001 | |
| Zinc | 05/22/00 | CME | EPA 200.8 | 0.03 | mg/l | 0.001 | |
| Bromide | 05/17/00 | LN | EPA 300.0 | 0.37 | mg/l | 0.2 | |
| Chloride | 05/17/00 | LN | EPA 300.0 | 45 | mg/l | 1 | |
| Nitrate as N | 05/17/00 | LN | EPA 300.0 | 0.1 U | mg/l | 0.1 | |
| Nitrite as N | 05/17/00 | LN | EPA 300.0 | 0.08 | mg/l | 0.02 | |
| Sulfate | 05/17/00 | LN | EPA 300.0 | 1200 | mg/l | 1 | |
| Cyanide Total | 05/22/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 05/15/00 | GC | EPA 340.2 | 0.98 | mg/l | 0.2 | |
| Ammonia as N | 05/16/00 | DK | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 05/17/00 | GC | EPA 351.2 | 4.4 | mg/l | 1 | |
| Total Sulfide | 05/15/00 | DP | EPA 376.1 | 2 | mg/l | 1 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29236** 009 Collected: 05/11/00 | | | | | | | |
| Sulfite | 05/15/00 | DP | EPA 377.1 | 2 | mg/l | 1 | |
| Chemical Oxygen Demand | 05/18/00 | LN | EPA 410.4 | 23 | mg/l | 1 | |
| Phenols, Total | 05/16/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 05/17/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 05/18/00 | JEB | EPA 624 | 5 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


**AA29236** 009 Collected: 05/11/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4,6-Dinitro-2-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chloro-3-methylphenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Nitrophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis-2-Chloroethyl ether | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Butylbenzylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

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Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/11/00
Reported: 06/14/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA29236** 009 Collected: 05/11/00 | | | | | | | |
| Nitrobenzene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/14/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 05/31/00 | DP | SM 5310C | 13 | mg/l | 0.5 | |

**Submitted By:**

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Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32686** Wastewater Pond Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Color ADMI, pH 7.6 | 06/02/00 | DP | EPA 110.0 | 13 | ADMI | 1 | |
| Color,ADMI | 06/02/00 | DP | EPA 110.1 | 13 | ADMI | 1 | |
| Hardness as CaCO3 | 05/02/00 | LN | EPA 130.2 | 760 | mg/l | 1 | |
| Oil & Grease, Total | 06/06/00 | JP | EPA 1664A | 1 U | mg/l | 1 | |
| Aluminum | 06/05/00 | CME | EPA 200.8 | 0.15 | mg/l | 0.001 | |
| Antimony | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Arsenic | 06/05/00 | CME | EPA 200.8 | 0.025 | mg/l | 0.001 | |
| Barium | 06/05/00 | CME | EPA 200.8 | 0.084 | mg/l | 0.001 | |
| Beryllium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Boron | 06/05/00 | CME | EPA 200.8 | 3.1 | mg/l | 0.01 | |
| Cadmium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Chromium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Cobalt | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Copper | 06/05/00 | CME | EPA 200.8 | 0.0048 | mg/l | 0.001 | |
| Iron | 06/05/00 | CME | EPA 200.8 | 0.48 | mg/l | 0.01 | |
| Lead | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Magnesium | 06/05/00 | CME | EPA 200.8 | 81 | mg/l | 0.05 | |
| Manganese | 06/05/00 | CME | EPA 200.8 | 0.52 | mg/l | 0.001 | |
| Mercury | 06/05/00 | CME | EPA 200.8 | 0.0002 U | mg/l | 0.0001 | |
| Molybdenum | 06/05/00 | CME | EPA 200.8 | 0.19 | mg/l | 0.01 | |
| Nickel | 06/05/00 | CME | EPA 200.8 | 0.018 | mg/l | 0.001 | |
| Phosphorus | 06/05/00 | CME | EPA 200.8 | 0.08 | mg/l | 0.001 | |
| Selenium | 06/05/00 | CME | EPA 200.8 | 0.039 | mg/l | 0.001 | |
| Silver | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Thallium | 06/05/00 | CME | EPA 200.8 | 0.01 | mg/l | 0.001 | |
| Tin | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Titanium | 06/05/00 | CME | EPA 200.8 | 0.002 U | mg/l | 0.001 | |
| Vanadium | 06/05/00 | CME | EPA 200.8 | 0.035 | mg/l | 0.001 | |
| Zinc | 06/05/00 | CME | EPA 200.8 | 0.015 | mg/l | 0.001 | |
| Bromide | 06/01/00 | LN | EPA 300.0 | 0.32 | mg/l | 0.2 | |
| Chloride | 06/01/00 | LN | EPA 300.0 | 57 | mg/l | 1 | |
| Nitrate as N | 06/01/00 | LN | EPA 300.0 | 0.7 | mg/l | 0.1 | |
| Nitrite as N | 06/01/00 | LN | EPA 300.0 | 0.12 | mg/l | 0.02 | |
| Sulfate | 06/01/00 | LN | EPA 300.0 | 910 | mg/l | 1 | |
| Cyanide Total | 06/06/00 | SA | EPA 335.2 | 0.02 U | mg/l | 0.02 | |
| Fluoride | 06/07/00 | GC | EPA 340.2 | 1.6 | mg/l | 0.2 | |
| Ammonia as N | 06/06/00 | BO | EPA 350.1 | 1 U | mg/l | 1 | |
| Total Kjeldahl Nitrogen | 06/02/00 | GC | EPA 351.2 | 6 | mg/l | 1 | |
| Total Sulfide | 06/09/00 | GC | EPA 376.1 | 1 U | mg/l | 1 | |

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Attn: Ken Daniel
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P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32686** Wastewater Pond Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| Sulfite | 06/02/00 | LN | EPA 377.1 | 4 | mg/l | 1 | |
| Chemical Oxygen Demand | 06/05/00 | DP | EPA 410.4 | 26 | mg/l | 1 | |
| Phenols, Total | 06/02/00 | ET | EPA 420.1 | 0.04 U | mg/l | 0.04 | |
| MBAS as LAS | 06/02/00 | JP | EPA 425.1 | 0.1 U | mg/l | 0.1 | |
| 1,1,1-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2,2-Tetrachloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1,2-Trichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,1-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 1,2-Dichloropropane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| 2-Chloroethylvinylether | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrolein | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Acrylonitrile | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Benzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromodichloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromoform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Bromomethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Carbon Tetrachloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chlorobenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloroform | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Chloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| cis-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Dibromochloromethane | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Ethylbenzene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Methylene Chloride | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Tetrachloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Toluene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,2-Dichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| trans-1,3-Dichloropropene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Trichloroethene | 06/01/00 | JEB | EPA 624 | 5 U | ug/l | 5 | |
| Vinyl Chloride | 06/01/00 | JEB | EPA 624 | 1 U | ug/l | 1 | |
| 1,2,4-Trichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,2-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,3-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 1,4-Dichlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

**McCoy & McCoy Laboratories, Inc.**
a subsidary of McCoy & McCoy, Inc.
P. O. Box 907
Madisonville, KY 42431
www.mccoylabs.com

Lexington KY 606.299.7775
Madisonville KY 270.821.7375
Paducah KY 270.444.6547
Pikeville KY 606.432.3104

E-mail: mccoy@vci.net

Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


**AA32686** Wastewater Pond Collected: 05/31/00

| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dichlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dimethylphenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,4-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2,6-Dinitrotoluene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 2-Chloronaphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 3,3'-Dichlorobenzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Bromophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| 4-Chlorophenyl-phenylether | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Acenaphthylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzidine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(a)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(b)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(g,h,i)perylene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Benzo(k)fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Chloroethoxy)methane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| bis(2-Ethylhexyl)phthalate | 06/15/00 | MTC | EPA 625 | 16 | ug/l | 10 | |
| Butylbenzylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Chrysene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-butylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Di-n-octylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dibenz(a,h)anthracene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Diethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Dimethylphthalate | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluoranthene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Fluorene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorobutadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachlorocyclopentadiene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Hexachloroethane | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Indeno(1,2,3-cd)pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Isophorone | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitroso-di-n-propylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodimethylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| N-Nitrosodiphenylamine | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Naphthalene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |

*McCoy & McCoy Laboratories, Inc.*
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Madisonville KY 270.821.7375
Paducah KY 270.444.6547
Pikeville KY 606.432.3104

E-mail: mccoy@vci.net

Western Kenucky Energy
Attn: Ken Daniel
D B Wilson Station
P.O. Box 190
Island KY 42350

Received: 05/31/00
Reported: 06/16/00
Client: WE0394


| Test Description | Analyzed | By | Method | Result | Units | Detect Limit | Note |
|---|---|---|---|---|---|---|---|
| **AA32686** Wastewater Pond Collected: 05/31/00 | | | | | | | |
| Nitrobenzene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pentachlorophenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenanthrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Phenol | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Pyrene | 06/15/00 | MTC | EPA 625 | 10 U | ug/l | 10 | |
| Total Organic Carbon | 06/15/00 | DP | SM 5310C | 7.3 | mg/l | 0.5 | |

**Submitted By:**

Doug Wolfe

00051087

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270 844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | | ✓ | | 11:31 | | | | | | | | A on List |
| Liq | | ✓ | | 11:37 | | | | | | | | B on List |
| Liq | | ✓ | | 11:30 | | | | | | | | C on List |
| Liq | | ✓ | | 11:36 | | | | | | | | D on List |
| Liq | | ✓ | | 11:34 | | | | | | | | E on List |
| Liq | | ✓ | | 11:35 | | | | | | | | F on List |
| Liq | | ✓ | | 11:33 | | | | | | | | G. on List |
| Liq | | ✓ | | 11:37 | | | | | | | | H on List |
| | | | | | | | | | | | | |
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| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Stevens | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270-844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 1 set | ✓ | | | Glass | 11:58 | 7.31 | | | | | Base Neutrals |
| Liq | | | | | | | | | | | | |
| Liq | 1 set | ✓ | | | Glass | 12:09 | | | | | | Base Neutrals |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| Ice Chest | | | | | | | | | | | | |
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| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:27 |
| pH Meter #: DO Meter #: | Received by: Matt Stanley | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O Box 190
Island KY

Phone: 270 844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: TS
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 002 | ✓ | | 8:59 | plastic | NaOH ZnAlO3 | 8.13 | | | | | E on List |
| Liq | 002 | ✓ | | 8:56 | Glass | $H_2SO_4$ | 8:13 | | | | | H on List |
| Liq | 002 | ✓ | | 8:58 | plastic | $HNO_3$ | 8.13 | | | | | D on List |
| Liq | 002 | ✓ | | 8:53 | plastic | 4°C | 8.13 | | | | | F on List |
| Liq | 002 | ✓ | | 8:55 | glass | $H_2SO_4$ | 8.13 | | | | | C on List |
| Liq | 002 | ✓ | | 8:52 | plastic | 4°C | 8.13 | | | | | B on List |
| Liq | 002 | ✓ | | 9:00 | plastic | NaOH | 8.13 | | | | | G on List |
| Liq | 002 | ✓ | | 9:02 | plastic | $H_2SO_4$ | 8.13 | | | | | A on List |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:21 |
| pH Meter #: DO Meter #: | Received by: Matt Shaw | Date/Time: 5/11/00 1521 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

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MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O Box 190
Island KY

Phone: 270 844 6031

Contract: Tom Shaw

Client Job: KPDES Permit Application

Collected by: Tom Shaw

Date: 4-11-2000

Cooler No.:

Customer No.:

Project No.:

P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type: Grab | Type: Composite | Time Collected | Container | Preservative | Field data: pH | DO | Cl | Temp | Flow | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liq | 002 | ✓ | | 8:44 | Glass | | | | | | | ~~Base~~ Base/Neutral |
| Liq | 002 | ✓ | | 8:46 | Glass | | | | | | | ~~Base~~ Base/Neutral |
| Liq | 002 | ONE SET | | 8:50 | | | | | | | | Base/Neutral |
| Liq | 002 | | | | | | | | | | | |
| Liq | 002 | | | | | | | | | | | |
| Liq | 002 | | | | | | | | | | | |
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Field Data (QA/QC) Information pH 8.12

pH Meter #: DO Meter #:

Performed by:

Date/Time Performed:

Relinquished by: Tom Shaw Date/Time: 5/11/2000 3:21

Received by: Matt Mann Date/Time: 5/11/00 1521

Relinquished by: Date/Time:

Received by: Date/Time:

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MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: Wike Wilson Station
P.O. Box 190
Island KY

Phone: 270-844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B-108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 003 | ✓ | | 10:21 | | | | | | | | A on list |
| Liq | 003 | ✓ | | 10:20 | | | | | | | | B on list |
| Liq | 003 | ✓ | | 10:18 | | | | | | | | C on list |
| Liq | 003 | ✓ | | 10:24 | | | | | | | | D on list |
| Liq | 003 | ✓ | | 10:25 | | | | | | | | E on list |
| Liq | 003 | ✓ | | 10:23 | | | | | | | | F on list |
| Liq | 003 | ✓ | | 10:26 | | | | | | | | G on list |
| Liq | 003 | ✓ | | 10:17 | | | | | | | | H on list |
| | | | | | | | | | | | | |
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| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Stan | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

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MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270 844-6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: TS
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | Surface 003 | — | | 10:08 | Glass | | 8.34 | | | | | Base Neutral |
| Liq | @ | | | | | | | | | | | |
| Liq | 003 | — | | 10:12 | | | | | | | | Base Neutral |
| Liq | Surface | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
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|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Atkins | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

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**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: Wilson Station
P.O. Box 190
Island KY

Phone: 270 844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 004 | — | | 12:03 | | | 7.31 | | | | | A on List |
| Liq | 004 | — | | 12:02 | | | | | | | | B on List |
| Liq | 004 | — | | 12:06 | | | | | | | | C on List |
| Liq | 004 | — | | 12:07 | | | | | | | | D on List |
| Liq | 004 | — | | 12:04 | | | | | | | | E on List |
| Liq | 004 | — | | 12:08 | | | | | | | | F on List |
| Liq | 004 | — | | 11:56 | | | | | | | | G on List |
| Liq | 004 | — | | 12:05 | | | | | | | | Hc on List |
| | | | | | | | | | | | | |
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| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Mann | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270 844 6031

Contract: Tom Shaw

Client Job: KPDES Permit Application

Customer No.:

Project No.:

Collected by: Tom Shaw

Date: 4-11-2000

Cooler No.:

P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 1 set | ✓ | | 11:26 | | | 7.56 | | | | | Base Neutrals |
| Liq | | | | | | | | | | | | |
| Liq | 1 set | ✓ | | 11:20 | | | | | | | | Base Neutrals |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
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| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw — Date/Time: 5/11/2000 3:27 |
| pH Meter #: DO Meter #: | Received by: Matt Stan — Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: — Date/Time: |
| Date/Time Performed: | Received by: — Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270-844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 006 | / | | 11:00 | | | 8.3 | | | | | A on List |
| Liq | 006 | / | | 11:05 | | | | | | | | B on List |
| Liq | 006 | / | | 11:09 | | | | | | | | C on List |
| Liq | 006 | / | | 11:08 | | | | | | | | D on List |
| Liq | 006 | / | | 11:02 | | | | | | | | E on List |
| Liq | 006 | / | | 10:59 | | | | | | | | F on List |
| Liq | 006 | / | | 11:03 | | | | | | | | G on List |
| Liq | 006 | / | | 11:07 | | | | | | | | H on List |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | | |
|---|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Stanl | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270-844 6031

Contract: Tom Shaw

Client Job:

Project No.:

Collected by: Tom Shaw

Date: 4-11-2000

Cooler No.:

P.O. No.: B108720-20

Customer No.:

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 1 set 006 | — | | 10:50 | | | | | | | | Base Neutral |
| Liq | | | | | | | | | | | | |
| Liq | 006 | — | | 10:55 | | | | | | | | Base Neutral. |
| Liq | 1 set | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
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| Field Data (QA/QC) Information | Relinquished by: Tom Shaw | Date/Time: 5/11/2000 3:27 |
|---|---|---|
| pH Meter #: DO Meter #: | Received by: Matt Stanley | Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: | Date/Time: |
| Date/Time Performed: | Received by: | Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270 844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 009 | ✓ | | 9:30 | plastic | $H_2SO_4$ | 8.45 | | | | | A on list |
| Liq | 009 | ✓ | | 9:36 | plastic | 4°C | | | | | | B on list |
| Liq | 009 | ✓ | | 9:37 | Glass | $H_2SO_4$ | | | | | | C on list |
| Liq | 009 | ✓ | | 9:33 | plastic | $HNO_3$ | | | | | | D on list |
| Liq | 009 | ✓ | | 9:35 | plastic | NaOH ZN $AlO_3$ | | | | | | E on list |
| Liq | 009 | ✓ | | 9:38 | plastic | 4°C | | | | | | F on list |
| Liq | 009 | ✓ | | 9:38 | plastic | NaOH | | | | | | G on list |
| Liq | 009 | ✓ | | 9:34 | glass | $H_2SO_4$ | | | | | | H on list |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw — Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt — Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: — Date/Time: |
| Date/Time Performed: | Received by: — Date/Time: |

SPRINT PRINT FORM #6265

MC170

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: WKE Wilson Station
P.O. Box 190
Island KY

Phone: 270 844 6031
Contract: Tom Shaw
Client Job: KPDES Permit Application

Collected by: Tom Shaw
Date: 4-11-2000
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 1st 009 | ✓ | | 9:26 | | | 8.45 | | | | | BASE Neutral |
| Liq | 009 | | | | | | | | | | | |
| Liq | 009 | — | | 9:27 | | | | | | | | BASE Neutral |
| Liq | 1st 009 | — | | | | | | | | | | |
| Liq | 009 | — | | | | | | | | | | |
| Liq | 009 | — | | | | | | | | | | |
| Liq | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw — Date/Time: 5/11/2000 3:22 |
| pH Meter #: DO Meter #: | Received by: Matt Stevens — Date/Time: 5/11/00 1522 |
| Performed by: | Relinquished by: — Date/Time: |
| Date/Time Performed: | Received by: — Date/Time: |

SPRINT PRINT FORM #6265

MC170

05 31/612
AA 30676.

# McCoy & McCoy Laboratories, Inc.

## Chain of Custody Record

Client: WKE Coleman
Phone: 270 444-6031
Collected by: TS
Contract: Tom Shaw
Date: 5/31/00
Client Job: KPDES Permit Renewal
Cooler No.:
Customer No.:
Project No.:
P.O. No.:

| Sample Type Liquid/Solid | Location Sample ID | Type: Grab | Type: Composite | Time Collected | Container | Preservative | Field data: pH | DO | Cl | Temp | Flow | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liq | Pond C Background | ✓ | | 11:05/11:06 | Glass | None 4° | | | | | | Base/Neutral |
| Liq | Pond C | ✓ | | 11:10 | Glass | None 4° | | | | | | VOC |
| Liq | Pond C | ✓ | | 11:15 | Plastic | $H_2SO_4$ | | | | | | List A |
| Liq | Pond C | ✓ | | 11:18 | Plastic | 4° | | | | | | List B |
| Liq | Pond C | ✓ | | 11:19 | Glass | 4°C | | | | | | List C |
| Liq | Pond C | ✓ | | 11:20 | Plastic | $HNO_3$ | | | | | | List D |
| Liq | Pond C | ✓ | | 11:22 | Plastic | Zinc Acetate/Sodium Hydroxide | | | | | | List E |
| Liq | Pond C | ✓ | | 11:25 | Glass | 4°C | | | | | | List F |
| Liq | Pond C | ✓ | | 11:27 | Plastic | NaOH | | | | | | List G |
| Liq | Pond C | ✓ | | 11:30 | Glass | $H_2SO_4$ | | | | | | List H |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw — Date/Time: 5/31/00 4:26 |
| pH Meter #: DO Meter #: | Received by: Greg Bowster — Date/Time: 5/31/00 4:20 |
| Performed by: | Relinquished by: — Date/Time: |
| Date/Time Performed: | Received by: — Date/Time: |

SPRINT PRINT FORM #6265

MC170

~~005716~~ 00052650

**McCoy & McCoy Laboratories, Inc.**

AA32686

# Chain of Custody Record

Client: WKE Wilson
P.O. Box 190
Island KY

Phone: 270-844-6031

Contract:

Client Job:

Project No.:

Collected by: TS

Date: 5/31/00

Cooler No.:

Customer No.:

P.O. No.: B108720-200

| Sample Type Liquid/Solid | Location Sample ID | Type: Grab | Type: Composite | Time Collected | Container | Preservative | Field data: pH | DO | Cl | Temp | Flow | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liq | WASTE WATER POND | ✓ | | 2:50 | | 4°C | | | | | | VOC |
| Liq | WASTE WATER POND | ✓ | | 2:40 | | 4°C | | | | | | F |
| Liq | | ✓ | | 2:25 | | 4°C | | | | | | BASE/Neutral |
| Liq | | ✓ | | 2:32 | | 4°C | | | | | | B |
| Liq | | ✓ | | 2:30 | | $H_2SO_4$ | | | | | | A |
| Liq | | ✓ | | 2:42 | | NaOH | | | | | | G |
| Liq | | ✓ | | 2:37 | | $HNO_3$ | | | | | | D |
| Liq | | ✓ | | 2:35 | | $H_2SO_4$ | | | | | | C |
| Liq | | ✓ | | 2:43 | | $H_2SO_4$ | | | | | | H |
| Liq | | ✓ | | 2:39 | | ZN Ac | | | | | | E |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw — Date/Time: 5/31/00 4:20 |
| pH Meter #: DO Meter #: | Received by: Amy Brewster — Date/Time: 5/31/00 4:20 |
| Performed by: | Relinquished by: — Date/Time: |
| Date/Time Performed: | Received by: — Date/Time: |

SPRINT PRINT FORM #6265

MC170

JW 2666
AA32699

**McCoy & McCoy Laboratories, Inc.**

# Chain of Custody Record

Client: NKE Wilson
P.O Box 190
Island KY

Phone: 270-844-6031
Contract: Tom Shaw
Client Job:

Collected by: TS
Date: 5/31/00
Cooler No.:

Customer No.:
Project No.:
P.O. No.: B108720-20

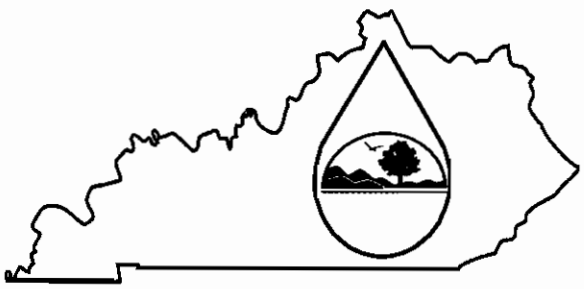
| Sample Type Liquid/Solid | Location Sample ID | Type | | Time Collected | Container | Preservative | Field data | | | | | Analysis Requested |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Grab | Composite | | | | pH | DO | Cl | Temp | Flow | |
| Liq | 005 | ✓ | | 1:55 | glass | $H_2SO_4$ | | | | | | H |
| Liq | 005 | ✓ | | 2:05 | plastic | 4°C | | | | | | B |
| Liq | 005 | ✓ | | 1:52 | plastic | 4°C | | | | | | F |
| Liq | 005 | ✓ | | 2:00 | plastic | NAOH $ZnAc_3$ | | | | | | E |
| Liq | 005 | ✓ | | 1:47 | plastic | $H_2SO_4$ | | | | | | A |
| Liq | 005 | ✓ | | 1:49 | Plastic | NaOH | | | | | | G |
| Liq | 005 | ✓ | | 1:57 | Glass | $H_2SO_4$ | | | | | | C |
| Liq | 005 | ✓ | | 1:50 | plastic | $HNO_3$ | | | | | | D |
| Liq | 005 | ✓ | | 2:10 | Glass | | | | | | | Base/Neutrals |
| Liq | 005 | ✓ | | 1:45 | Glass | | | | | | | VOC |

| | |
|---|---|
| Field Data (QA/QC) Information | Relinquished by: Tom Shaw Date/Time: 5/31/00 4:20 |
| pH Meter #: DO Meter #: | Received by: Amy Brewster Date/Time: 5/31/00 4:20 |
| Performed by: | Relinquished by: Date/Time: |
| Date/Time Performed: | Received by: Date/Time: |

SPRINT PRINT FORM #6265

MC170

# KPDES FORM 1



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☐ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☑ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

| I. FACILITY LOCATION AND CONTACT INFORMATION | AGENCY USE |
|---|---|

A. Name of business, municipality, company, etc. requesting permit
Western Kentucky Energy P.O. Box 1518 Henderson Kentucky 42419-1518

| B. Facility Name and Location | C. Facility Owner/Mailing Address |
|---|---|
| Facility Location Name: D.E. Wilson Station | Owner Name: Big Rivers Electric |
| Facility Location Address (i.e. street, road, etc.): 5663 State Route Hwy 85 West | Mailing Street: PO Box 24 |
| Facility Location City, State, Zip Code: Centertown, KY 42328 | Mailing City, State, Zip Code: Henderson KY 42420 |
| | Telephone Number: 270 844-6031 |

## II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc:
Additional stormwater collections ponds along the fuel conveyor

B. Standard Industrial Classification (SIC) Code and Description

| Principal SIC Code & Description: 4911 | Coal-fired steam electric | | |
|---|---|---|---|
| Other SIC Codes: | | | |

## III. FACILITY LOCATION

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| B. County where facility is located: Ohio | City where facility is located (if applicable): Between Island and Centertown |
|---|---|
| C. Body of water receiving discharge: Green | |
| D. Facility Site Latitude (degrees, minutes, seconds): N37°27'15" | Facility Site Longitude (degrees, minutes, seconds): W87°06'06" |
| E. Method used to obtain latitude & longitude (see instructions): Topo | |
| F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 031 072 619 | |

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:
☐ Publicly Owned ☑ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Feb 2001 | Oct 2004 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: | Sludge Disposal Permit Number: |
| | June 1980 | |
| Kentucky DOW Operational Permit #: | Kentucky DSMRE Permit Number(s): | |
| | | |

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | 0-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Greg Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson KY 42419-1518 |
| DMR Official Telephone Number: | 270-844-6022 |

## VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instruetions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "Gcncral Instructions."

| Facility Fee Category: | Filing Fee Enclosed: |
|---|---|
| | |

## VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my dircction or supervision in accordance with a system designed to assurc that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to thc best of my knowledge and bclief, true, accuratc, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| SIGNATURE | DATE: |

# KPDES FORM 1 – INSTRUCTIONS

Listed below are explanations of select Form 1 questions. If further information is needed concerning any question, please **contact Division of Water, KPDES Branch at (502) 564-3410.**

**I. Facility Location and Contact Information**

A. Use the official or legal name of the business, company, municipality, etc. requesting permit.

B. The facility name should be the name by which the facility is commonly known and/or uniquely identified. The information given as the facility name and location address should be the actual location of the facility (i.e. road name, highway number, not the P O Box address).

C. The facility owner/contact address should be the legal permittee of record and is the address where correspondence regarding the application, permit, etc. for the facility will be sent unless otherwise indicated.

**II. Facility Description**

A. Briefly describe the nature of the business and the activities being conducted that require a KPDES permit.

B. The SIC codes are numbers and descriptions of activities classified by the Executive Office of the President, Office of Management and Budget. These are found in the 1987 Edition of the Standard Industrial Classification (SIC) Manual. List the SIC codes(s) that best describe the products or services provided by the facility in descending order of importance. If an SIC code book is not available, please describe in detail the nature of the business and activities conducted so that an appropriate code can be assigned.

**III. Facility Location**

A. Attach a U.S. Geological Survey (USGS), 7 1/2 minute topographic quadrangle map(s) extending at least one mile beyond the property boundary of the discharge source. Depict or mark the facility and each of its intake and discharge structures. Also mark the locations of those wells, springs, surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one-quarter mile of the facility property boundary. USGS maps may be obtained from the Economic Development Cabinet, Map Sales Office, 133 Holmes Street, Frankfort, Kentucky 40601. Phone: (502) 564-4715.

B. List the county and, if applicable, city where facility is located.

C. List the body of water receiving discharge.

D. List the latitude and longitude for the facility site. The latitude/longitude reading for the site should be taken at the influent to the wastewater treatment plant, if applicable.

E. List the method used to obtain the latitude and longitude (i.e. topo map coordinates, GPS reading, etc.)

F. List the facility's Dun and Bradstreet Number if applicable.

**IV. Owner/Operator Information**

A. Place a check in the applicable type ownership as listed.

B. These sections must be completed by **all municipal and sanitary wastewater applicants** and other facilities as applicable.

List the name and address of the person who operates the sewage treatment plant.

Indicate if the operator is also the owner.

The operator must be currently certified with the Division of Water. For information concerning those requirements, contact: Division of Water, Certification Section, at (502) 564-3410.

List the Operator's Certification Class and Certification Number.

**V.** List any existing environmental permits which the facility has or will be applying for.

**VI.** List the address where Discharge Monitoring Report (DMR) forms are to be mailed.

**VII. Application Filing Fee**

The payment of a filing fee as listed below must accompany the application for a KPDES Permit. **(Your check must be made payable to "Kentucky State Treasurer.")** This fee will be applied toward the final discharge permit fee. The filing fee is not refundable if the application is withdrawn or the permit is denied. Listed below are the facility categories, associated base fees, and application filing fees. (See the "General Instructions" for definitions of facility categories.)

| Facility Category | Base Fee | Application Filing Fee |
|---|---|---|
| Major Industry | $3,200 | $640 |
| Minor Industry | $2,100 | $420 |
| Non-Process Industry | $1,000 | $200 |
| Large Non-POTW | $1,700 | $340 |
| Intermediate Non-POTW | $1,500 | $300 |
| Small Non-POTW | $1,000 | $200 |
| Agriculture | $1,200 | $240 |
| Surface Mining Operation | $1,200 | $240 |
| 501(c)(3) | $100 | $20 |

**If this application is for a new project, see the General Instructions for the applicable Construction Permit fee.**

**A permit application cannot be processed unless the application filing fee and (if applicable) construction permit fee is enclosed. Make your check payable to "Kentucky State Treasurer."**

**VIII. Certification**

The permit application must be signed as follows:

**Corporation:** by a principal executive officer of at least the level of vice president.

**Partnership or sole proprietorship:** by a general partner or the proprietor respectively.

**Municipality, state, federal, or other public agency:** by either a principal executive officer or ranking elected official.

# KPDES FORM C

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: | County: |
|---|---|
| **I. OUTFALL LOCATION** | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 010 | N37 | 27 | 11 | W87 | 05 | 27 | GREEN RIVER |
| 011 | N37 | 27 | 14 | W87 | 05 | 5 | GREEN RIVER |
| 012 | N37 | 27 | 13 | W87 | 06 | 30 | GREEN RIVER |
| 013 | N37 | 27 | 39 | W87 | 06 | 14 | GREEN RIVER |

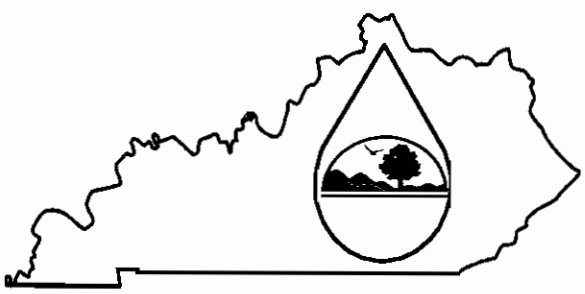
## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balanee on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for eertain mining activities), provide a pictorial deseription of the nature and amount of any sources of water and any eollection or treatment measures.

B. For each outfall, provide a deseription of: (1) all operations eontributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow eontributed by each operation; and (3) the treatment reeeived by the wastewatcr. Continue on additional shcets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 010 | Storm water runoff from fuel conveyor | | SETTLEMENT | 1-U, 1-R |
| 011 | Storm water runoff from fuel conveyor | | SETTLEMENT | 1-U, 1-R |
| 012 | Storm water runoff from fuel conveyor | | SETTLEMENT | 1-U, 1-R |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: | County: |
|---|---|
| **I. OUTFALL LOCATION** | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attaeh a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed deseriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balanee eannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For eaeh outfall, provide a deseription of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by eaeh operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 013 | Storm water runoff from fuel conveyor | | Settlement | 1-U, 1-R |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges deseribed in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☑ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Aet apply to your facility?

☑ Yes (Complete Item III-B) List effluent guideline eategory: Steam Electric

☐ No (Go to Seetion IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construetion, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges deseribed in this applieation? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement eompliance schedule letters, stipulations, eourt orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets deseribing any additional water pollution eontrol programs (or other environmental projects whieh may affeet your discharges) you now have under way or whieh you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proeeeding – Complete one set of tables for eaeh outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the spaee below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| N/A | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final produet or byproduct?

☐ Yes (List all sueh pollutants below) ☒ No (Go to Item VI-B)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☐ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sourees and expeeted levels of such pollutants which you antieipate will be diseharged from each outfall over the next 5 years. Continue on additional sheets if you need more spaee.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

001 Acute Tox

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| | | | |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| SIGNATURE | DATE |

## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)

## GENERAL INSTRUCTIONS

### INTRODUCTION

The Kentucky Pollutant Discharge Elimination System (KPDES) regulations require a permit for the discharge of pollutants from any point source into waters of the commonwealth. The requirements for the KPDES program are contained in 401 Kentucky Administrative Regulations (KAR) 5:001 and 5:005 through 5:080 and KRS 224.70-120. The regulations were promulgated pursuant to, and in accordance with, Kentucky Revised Statutes (KRS) Chapters 13A and 224 and the Federal Water Pollution Control Act. Copies of the KPDES regulations are available upon request from the Division of Water.

Listed below are examples of specific categories of operations that require KPDES permits:

1. Municipal Wastewater Dischargers
2. Manufacturing Establishments and Mining Operations
3. Commercial Establishments
4. Concentrated Animal Feeding Operations
5. Concentrated Aquatic Animal Production Facilities
6. Discharges into Aquacultural Projects
7. Discharges from Separate Storm Sewers
8. Silvicultural Point Sources

### THE KPDES PERMIT APPLICATION

Any person who is required to have a KPDES permit must complete, sign, and submit an application to the Division of Water. An application for a new discharge must be received by the division at least one hundred and eighty (180) days before the proposed discharge is due to commence. Likewise, an application to reissue an expiring permit must be received one hundred and eighty (180) days before the expiration date.

The KPDES permit application is comprised of two distinct forms. All applicants must complete Form 1. This is a general form that requests information regarding facility location, owner/operator addresses, existing environmental permits, etc.

In addition to Form 1, an applicant must fill out a specialized form that relates directly to the type of operation. Listed below are the four specialized forms that cover the four basic categories of discharge operations.

FORM A -- Municipal Wastewater Discharges
FORM B -- Animal Waste Management
FORM C -- Manufacturing Establishments and Mining Operations
SHORT FORM C -- Services, Wholesale and Retail Trade, and All Other Establishments
FORM F -- Storm Water Associated with Industrial Activity

It is important to fill out application forms completely and accurately. The Division of Water cannot begin the application review process without a completed application. Applicants should keep records of all data used to complete permit applications and any submitted supplemental information, for a period of at least three years from

the date the application is signed.

## CONFIRMATION OF A COMPLETE APPLICATION

An application submitted for a KPDES new source or a KPDES new discharger will be reviewed for completeness by the Division of Water within thirty days of receipt. Likewise, an application submitted for an existing source will be reviewed for completeness within thirty days of receipt.

The division upon completing the review, will notify the applicant in writing if the application can be considered administratively complete. If the application is determined incomplete, a list of missing informational topics will be provided to the applicant. In the case of an existing source application, a date for submitting the necessary information will be established.

Upon receiving the requested additional information, the division will notify the applicant if the application can be considered administratively complete. If an applicant fails or refuses to correct deficiencies in an application, the permit can be denied and appropriate enforcement actions can be taken under KRS Chapter 224.

The applicant should be aware that he/she may be requested to provide additional information to allow the cabinet to make its decision regarding the application after receiving notification that the application is complete. Requests for such additional material will not render an application incomplete.

## PERMIT FEES

Every applicant who is issued a KPDES permit, with the exception of applicants for publicly owned wastewater treatment plants, is assessed a permit fee according to the type of operation. The following is a list of the eight base fee categories, their definitions, and their associated fee dollar amounts:

| FEE CATEGORY | BASE PERMIT FEE |
|---|---|

**1. Major Industry ..... $3,200.00**

Industries that generate and discharge process-related wastewater while engaged in commercial activities including but not limited to, resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries have a design flow rate of greater than or equal to 50,000 gallons per day of process wastewater containing conventional, nonconventional, or thermal pollutants.

**2. Minor Industry ..... $2,100.00**

Industries that generate and discharge process-related wastewater while engaged in commercial activities including but not limited to, resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries have a design flow rate of less than 50,000 gallons per day of process wastewater containing conventional, nonconventional, or thermal pollutants.

**3. Non-Process Industry ..... $1,000.00**

Industries that generate and discharge only non-process wastewater while engaged in commercial activities including resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries discharge non-process wastewater (e.g. non-contact cooling or storm water

runoff) or wastewater that neither contains nor is likely to contain toxic pollutants in concentrations equal to or greater than the ninety-six hour lethal concentration for fifty percent mortality (96 hr. LC50) for a representative indigenous aquatic organism.

4. **Large Non-Publicly Owned Treatment Works ..... $1,700.00**

   Facilities which have a design flow rate of greater than or equal to 50,000 gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

5. **Intermediate Non-Publicly Owned Treatment Works ..... $1,500.00**

   Facilities which have a design flow rate of greater than or equal to 10,000 gallons per day and less than fifty thousand gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

6. **Small Non-Publicly Owned Treatment Works ..... $1,000.00**

   Facilities which have a design flow rate of less than 10,000 gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

7. **Agricultural Operation ..... $1,200.00**

   Operations that use confined feeding in livestock or livestock by-product production with manure handling facilities that qualify as concentrated animal feeding operations.

8. **Surface Mining Operation ..... $1,200.00**

   Facilities required to have a permit under 405 KAR Chapters 7-26.

9.* **501(c)(3) Facilities ..... $ 100.00**

   * Note: 501(c)(3) Exemption.
   Legislation enacted by the 1990 General Assembly reflected some changes in KRS 224.16-050 relating to permit fees. Nonprofit organizations which have been qualified under Section 501(c)(3) of the Internal Revenue Code and which operate their own treatment facilities which are designed for capacities less than 10,000 gallons per day shall be charged a fee no greater than $50.00 by the cabinet to process a construction permit nor a fee greater than $20.00 per year for an operating permit for one (1) facility. A copy of the 501(c)(3) exemption letter must be submitted with your application to qualify for this exemption.

**APPLICATION FEES**

Twenty percent (20%) of the appropriate permit base fee shown in the fee schedule must be submitted with the KPDES permit application. This twenty percent is considered an application filing fee and is applied toward the total base fee at the time of permit issuance. The balance must be paid before the permit is issued. The application fee is not refundable if the permit application is withdrawn or if the permit is denied. **Your check must be made payable to Kentucky State Treasurer**.

## CONSTRUCTION FEES

Applicants requiring construction permits must submit the fee noted below with their permit application. Should the cabinet deny the construction permit, the fee for the construction permit will be refunded. The construction permit fee and the KPDES discharge permit application filing fee must be submitted with the KPDES permit application. The remainder of the KPDES discharge permit fee must be paid prior to permit issuance.

EXAMPLE: The total fee for a new small non-publicly owned treatment works is $1,450 ($450 for the construction permit and $1,000 for the discharge permit). The amount to be submitted with the KPDES application is $650. The remaining $800 is due prior to permit issuance.

1. **Large Facility ..... $1,800.00**

   Facilities with design flow greater than or equal to 50,000 gallons per day.

2. **Intermediate Facility ..... $ 900.00**

   Facilities with design flow greater than or equal to 10,000 gallons per day and less than fifty thousand gallons per day.

3. **Small Facility ..... $ 450.00**

   Facilities with design flow less than 10,000 gallons per day.

4.* **501(c)(3) Facilities ..... $ 50.00**

   * A copy of 501(c)(3) exemption must be submitted with your application.

## CONCLUSION

Detailed instructions are provided with each application form. These instructions explain select questions from the form and must be read and referred to as the application is being completed. If more space is needed to complete a question, the applicant must submit a separate sheet entitled "Additional Information."

If specific questions arise concerning any aspect of the application, feel free to call the Division of Water at (502) 564-3410.

## KPDES PERMIT APPLICATION GLOSSARY

**Bypass** – an arrangement of pipes, conduits, gates and valves whereby all or a portion of the flow is diverted and results in a discharge (generally an intentional act at the plant).

**Certified Operator** – possesses a current operator certification issued by the Division of Water based on experience, education, and examination.

**Combined Sanitary and Storm Collection System** – a system of pipes which carries a mixture of stormwater runoff, surface water runoff and other wastewater such as domestic or industrial wastewater.

**Composite Sample** – (a) Not less than four (4) effluent portions collected at regular intervals over a period of eight (8) hours and combined in proportion to flow; or (b) Not less than four (4) combined equal volume effluent portions collected over a period of eight (8) hours at intervals proportional to flow; or (c) Not less than twelve (12) effluent portions collected at regular intervals over a period of twenty-four (24) hours which are composited in proportion to flow, or (d) an effluent portion collected continuously over a period of twenty-four (24) hours at a rate proportional to flow; or (e) an effluent portion consisting of a minimum of four (4) combined equal volume grab samples taken approximately two (2) hours apart.

**Concentrated Animal Feeding Operation** – an animal feeding operation which meets the criteria in 401 KAR 5:060, Section 11 or that which the cabinet designates under Section 5(3).

**Concentrated Aquatic Animal Production** – a hatchery, fish farm, or other facility which meets the criteria in 401 KAR 5:060, Section 12 or that which the director designates under Section 6(3).

**Continuous Discharge** – a discharge which occurs without interruption throughout the operating hours of the facility.

**Grab Sample** – a single instantaneous portion of the effluent.

**Intermittent Discharge** – a discharge which occurs and ceases at regular or irregular intervals either during or outside of the operating hours of the facility.

**Overflow** – an overflow occurs when the volume of water exceeds the capacity of a transport system, causing the extra water to be spilled or forced out of the system into a waterway (generally an unintentional act in the collection system).

**Proposed Facility** – a facility not now in operation or not now considered a concentrated operation.

**Publicly Owned Treatment Works (POTW)** – facilities which are owned by the Commonwealth or a municipality, discharge only conventional pollutants, and which are eligible for funding under the U.S. EPA's 205(g) construction grants program.

**Schematic of Water Flow** – a line drawing of wastewater flow through the facility producing discharges. Average flow rates for various wastewaters (if possible) and specific treatment processes are to be indicated.

**Separate Sanitary Collection System** – a system of pipes that carries: (1) Domestic wastewater with storm and surface water excluded; (2) Wastewater discharged from sanitary conveniences of dwellings (including hotels),

office buildings, industrial parks, or institutions; (3) The water supply of a community after it has been used and discharged.

**Separate Storm Collection System** – a system of pipes that carries only runoff caused by precipitation.

**TCDD Standard for Quantification** – a precise measurement of 2,3,7,8-tetrachlorodibenzo-p-dioxin for comparison to the EPA standard.

**Upset** – an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

# KPDES FORM 1 -- INSTRUCTIONS

Listed below are explanations of select Form 1 questions. If further information is needed concerning any question, please **contact Division of Water, KPDES Branch at (502) 564-3410.**

**I. Facility Contact Information**

A. Use the official or legal name of the business, company, municipality, etc. requesting permit.

B. The facility name should be the name by which the facility is commonly known and/or uniquely identified. The information given as the facility name and location address should be the actual location of the facility.

C. The facility owner/contact address should be the legal permittee of record and is the address where correspondence regarding the application, permit, etc. for the facility will be sent unless otherwise indicated.

**II. Facility Description**

A. Briefly describe the nature of the business and the activities being conducted that require a KPDES permit.

B. The SIC codes are numbers and descriptions of activities classified by the Executive Office of the President, Office of Management and Budget. These are found in the 1987 Edition of the Standard Industrial Classification (SIC) Manual. List the SIC codes(s) that best describe the products or services provided by the facility in descending order of importance. If an SIC code book is not available, please describe in detail the nature of the business and activities conducted so that an appropriate code can be assigned.

**III. Facility Location**

A. Attach a U.S. Geological Survey (USGS), 7 1/2 minute topographic quadrangle map(s) extending at least one mile beyond the property boundary of the discharge source. Depict or mark the facility and each of its intake and discharge structures. Also mark the locations of those wells, springs, surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one-quarter mile of the facility property boundary. USGS maps may be obtained from the Economic Development Cabinet, Map Sales Office, 133 Holmes Street, Frankfort, Kentucky 40601. Phone: (502) 564-4715.

B. List the county and, if applicable, city where facility is located.

C. List the body of water receiving discharge.

E. List the facility's Dun and Bradstreet Number if applicable.

**IV. Owner/Operator Information**

A. Place a check in the applicable ownership type as listed.

B-D. These sections must be completed by **all municipal and sanitary wastewater applicants** and other facilities as applicable.

B. List the name and address of the person who operates the sewage treatment plant.

C. Indicate if the operator is also the owner.

D. The operator must be currently certified with the Division of Water. For information concerning those requirements, contact: Division of Water, Certification Section, at (502) 564-3410.

**VII. Application Filing Fee**

The payment of a filing fee as listed below must accompany the application for a KPDES Permit. **(Your check must be made payable to "Kentucky State Treasurer."** This fee will be applied toward the final discharge permit fee. The filing fee is not refundable if the application is withdrawn or the permit is denied. Listed below are the facility categories, associated base fees, and application filing fees. (See the "General Instructions" for definitions of facility categories.)

| **Facility Category** | **Base Fee 1st Issuance and Renewals** | **Application Filing Fee** |
|---|---|---|
| | **New and Existing Facilities** | |
| Major Industry | $3,200 | $640 |
| Minor Industry | $2,100 | $420 |
| Non-Process Industry | $1,000 | $200 |
| Large Non-POTW | $1,700 | $340 |
| Intermediate Non-POTW | $1,500 | $300 |
| Small Non-POTW | $1,000 | $200 |
| Agriculture | $1,200 | $240 |
| Surface Mining Operation | $1,200 | $240 |

**If this application is for a new project, see the General Instructions for the applicable Construction Permit fee.**

A. Enter the facility category that describes your facility and corresponding application fee.

**A permit application cannot be processed unless the application filing fee and (if applicable) construction permit fee is enclosed. Make your check payable to "Kentucky State Treasurer."**

**VII. Certification**

The permit application must be signed as follows:

**Corporation:** by a principal executive officer of at least the level of vice president.

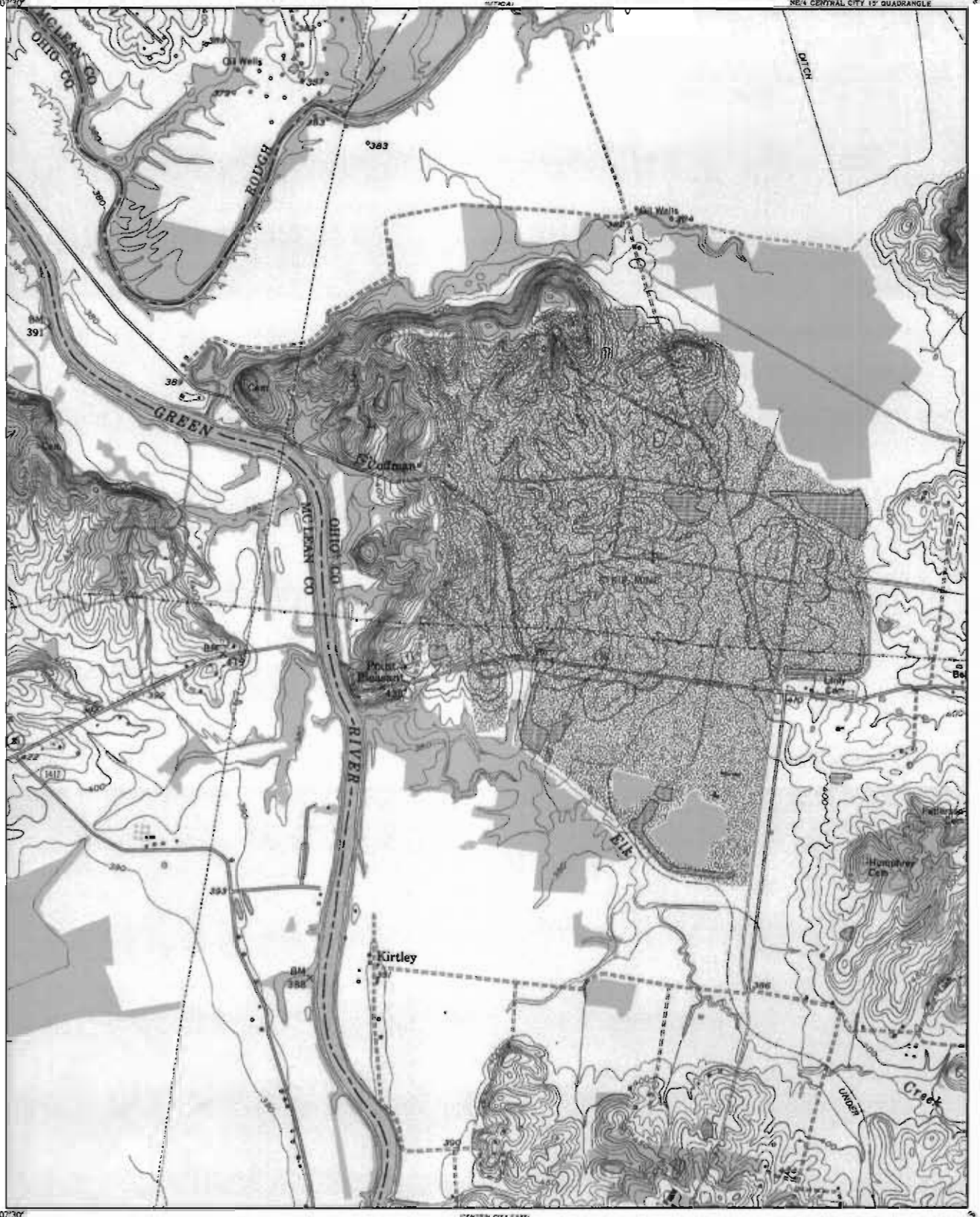
**Partnership or sole proprietorship:** by a general partner or the proprietor respectively.

**Municipality, state, federal, or other public agency:** by either a principal executive officer or ranking elected official.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF KENTUCKY
AGRICULTURAL AND INDUSTRIAL DEVELOPMENT BOARD

# EQUALITY QUADRANGLE
KENTUCKY
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 CENTRAL CITY 15' QUADRANGLE




87°07'30"

Mapped, edited, and published by the Geological Survey

Control by USGS, NOS/NOAA, and USCE

Culture and drainage in part compiled from aerial photographs taken 1950. Topography by planetable surveys 1952

Polyconic projection. 10,000-foot grid ticks based on Kentucky coordinate system, south zone. 1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue. 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 4 meters south and 1 meter east as shown by dashed corner ticks

Revisions shown in purple and woodland compiled in cooperation with State of Kentucky agencies from aerial photographs taken 1981 and other sources. Contours adjusted adjacent to certain photorevised hydrographic features. This information not field checked. Map edited 1983

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092,
KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY 40506,
AND KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY 40601
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

EQUALITY, KY.
NE/4 CENTRAL CITY 15' QUADRANGLE
37087-01-TF-024

1952
PHOTOREVISED 1983
DMA 3950 I NE—SERIES V855

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

4/ 9/03

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: WILSON CONVEYOR PROJECT
Project Number: .
Laboratory Project Number: 325445.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980.



| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| POND 1 | 03-A45771 | 3/26/03 |
| POND 2 | 03-A45772 | 3/26/03 |
| POND 4 | 03-A45773 | 3/26/03 |



Report Approved By: Roxanne L Connor Report Date: 4/ 9/03



Laboratory Certification Number: 90038

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON CONVEYOR PROJECT
Sampler:

Lab Number: 03-A45771
Sample ID: POND 1
Sample Type: Water
Site ID:

Date Collected: 3/26/03
Time Collected: 11:45
Date Received: 3/27/03
Time Received: 8:15
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 3/27/03 | 22:55 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | | 4/ 1/03 | 21:15 | J. Hill | 405.1 | 6731 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 4/ 2/03 | 11:34 | K. Ahmed | 245.1 | 9895 |
| Aluminum | 0.364 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Antimony | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Arsenic | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Barium | 0.0240 | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Chromium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Copper | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Iron, total | 0.242 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Lead | ND | mg/l | 0.0030 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Magnesium | 8.42 | mg/l | 1.00 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Manganese | ND | mg/l | 0.0150 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Nickel | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Selenium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Silver | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Thallium | ND | mg/l | 0.0020 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Tin | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# ANALYTICAL REPORT

Laboratory Number: 03-A45771
Sample ID: POND 1
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Zinc | ND | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Titanium | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Boron | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 3.90 | mg/l | 3.00 | 1 | 4/ 1/03 | 18:47 | S. Duncan | 410.4 Mod | 8638 |
| Nitrate-N as N | 0.200 | mg/l | 0.100 | 1 | 3/27/03 | 19:13 | W. Choate | 353.2 | 6637 |
| Nitrite-N as N | ND | mg/l | 0.100 | 1 | 3/27/03 | 20:01 | W. Choate | 353.2 | 6640 |
| Fluoride | 0.580 | mg/l | 0.100 | 1 | 4/ 2/03 | 13:40 | T. Beverly | 340.2MOD | 871 |
| Sulfate | 49.2 | mg/l | 2.00 | 2 | 3/31/03 | 10:06 | M.Shockley | 375.4 | 9871 |
| Chlorine, residual | ND | mg/l | 0.0200 | 1 | 3/28/03 | 8:32 | T. Beverly | 330.5 | 6630 |
| Apparent Color | ND | Color Unit | | | 3/28/03 | 10:15 | T. Beverly | 110.2 | 6632 |
| pH | 7.70 | pH Units | | | 3/28/03 | 10:15 | T. Beverly | 150.1 | 6632 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 4/ 1/03 | 14:00 | S. Duncan | 365.4 | 8632 |
| Hardness | 96.4 | mg/l | 5.00 | 1 | 3/28/03 | 11:37 | S. Duncan | 130.1 | 7235 |
| Total Organic Carbon | 2.02 | mg/l | 1.00 | 1 | 3/29/03 | 12:52 | M.Checolle | 415.1 | 8042 |
| Total Suspended Solids | 12.2 | mg/l | 2.50 | 2.5 | 3/28/03 | 18:10 | G. Baun | 160.2 | 6715 |
| Sulfite | ND | mg/l | 5.00 | 1 | 3/27/03 | 20:00 | B. Yanna | 377.1 | 6634 |
| Sulfide | ND | mg/l | 1.00 | 1 | 4/ 1/03 | 15:20 | B. Yanna | 376.1 | 9587 |
| Organic Nitrogen | 0.150 | mg/l | 0.100 | 1 | 4/ 3/03 | | S. Prayter | 351.4 | 1481 |
| Chloride | 2.87 | mg/l | 1.00 | 1 | 4/ 1/03 | 13:26 | S. Duncan | 325.2 | 7236 |
| Bromide | ND | mg/l | 1.00 | 1 | 3/28/03 | 18:21 | S. Duncan | 300 | 7316 |
| Oil & Grease as HEM | ND | mg/l | 5.43 | 1 | 4/ 3/03 | 10:13 | M. Cauthen | 1664 | 597 |

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Fluoride method modified to exclude distillation.
See attached report for Cyanide and Ammonia analysis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON CONVEYOR PROJECT
Sampler:

Lab Number: 03-A45772
Sample ID: POND 2
Sample Type: Water
Site ID:

Date Collected: 3/26/03
Time Collected: 12:10
Date Received: 3/27/03
Time Received: 8:15
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 3/27/03 | 22:55 | | | |
| BOD 5 Day | 2.25 | mg/l | 2.00 | | 4/ 1/03 | 21:15 | J. Hill | 405.1 | 6731 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 4/ 2/03 | 11:34 | K. Ahmed | 245.1 | 9895 |
| Aluminum | 0.168 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Antimony | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Arsenic | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Barium | 0.0300 | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Chromium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Copper | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Iron, total | 0.120 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Lead | ND | mg/l | 0.0030 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Magnesium | 13.3 | mg/l | 1.00 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Manganese | 0.0190 | mg/l | 0.0150 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Nickel | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Selenium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Silver | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Thallium | ND | mg/l | 0.0020 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Tin | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# ANALYTICAL REPORT

Laboratory Number: 03-A45772
Sample ID: POND 2
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Zinc | ND | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Titanium | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Boron | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 8.20 | mg/l | 3.00 | 1 | 4/ 1/03 | 18:47 | S. Duncan | 410.4 Mod | 8638 |
| Nitrate-N as N | 1.23 | mg/l | 0.100 | 1 | 3/27/03 | 19:14 | W. Choate | 353.2 | 6637 |
| Nitrite-N as N | ND | mg/l | 0.100 | 1 | 3/27/03 | 20:03 | W. Choate | 353.2 | 6640 |
| Fluoride | 0.470 | mg/l | 0.100 | 1 | 4/ 2/03 | 13:40 | T. Beverly | 340.2MOD | 871 |
| Sulfate | 107. | mg/l | 5.00 | 5 | 3/31/03 | 10:06 | M.Shockley | 375.4 | 9871 |
| Chlorine, residual | ND | mg/l | 0.0200 | 1 | 3/28/03 | 8:32 | T. Beverly | 330.5 | 6630 |
| Apparent Color | ND | Color Unit | | | 3/28/03 | 10:15 | T. Beverly | 110.2 | 6632 |
| pH | 5.20 | pH Units | | | 3/28/03 | 10:15 | T. Beverly | 150.1 | 6632 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 4/ 1/03 | 14:00 | S. Duncan | 365.4 | 8632 |
| Hardness | 173. | mg/l | 5.00 | 1 | 3/28/03 | 11:37 | S. Duncan | 130.1 | 7235 |
| Total Organic Carbon | 27.4 | mg/l | 1.00 | 1 | 3/29/03 | 12:52 | M.Checolle | 415.1 | 8042 |
| Total Suspended Solids | 8.80 | mg/l | 2.50 | 2.5 | 3/28/03 | 18:10 | G. Baun | 160.2 | 6715 |
| Sulfite | ND | mg/l | 5.00 | 1 | 3/27/03 | 20:00 | B. Yanna | 377.1 | 6634 |
| Sulfide | ND | mg/l | 1.00 | 1 | 4/ 1/03 | 15:20 | B. Yanna | 376.1 | 9587 |
| Organic Nitrogen | 0.253 | mg/l | 0.100 | 1 | 4/ 3/03 | | S. Prayter | 351.4 | 1481 |
| Chloride | 10.1 | mg/l | 1.00 | 1 | 4/ 1/03 | 13:27 | S. Duncan | 325.2 | 7236 |
| Bromide | ND | mg/l | 1.00 | 1 | 3/28/03 | 18:21 | S. Duncan | 300 | 7316 |
| Oil & Grease as HEM | ND | mg/l | 5.68 | 1 | 4/ 3/03 | 10:13 | M. Cauthen | 1664 | 597 |

## LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Fluoride method modified to exclude distillation.
See attached report for Cyanide and Ammonia analysis.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON CONVEYOR PROJECT
Sampler:

Lab Number: 03-A45773
Sample ID: POND 4
Sample Type: Water
Site ID:

Date Collected: 3/26/03
Time Collected: 12:55
Date Received: 3/27/03
Time Received: 8:15
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 3/27/03 | 22:25 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | | 4/ 1/03 | 21:15 | J. Hill | 405.1 | 6731 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 4/ 2/03 | 11:34 | K. Ahmed | 245.1 | 9895 |
| Aluminum | 0.506 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Antimony | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Arsenic | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Barium | 0.0350 | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Chromium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Copper | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Iron, total | 0.792 | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Lead | ND | mg/l | 0.0030 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Magnesium | 8.07 | mg/l | 1.00 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Manganese | 0.0550 | mg/l | 0.0150 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Nickel | ND | mg/l | 0.0100 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Selenium | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Silver | ND | mg/l | 0.0050 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Thallium | ND | mg/l | 0.0020 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Tin | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

## ANALYTICAL REPORT

Laboratory Number: 03-A45773
Sample ID: POND 4
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Zinc | 0.0290 | mg/l | 0.0200 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Titanium | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| Boron | ND | mg/l | 0.0500 | 1 | 3/31/03 | 22:00 | G.McCord | 200.7 | 7502 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 14.6 | mg/l | 3.00 | 1 | 4/ 1/03 | 18:47 | S. Duncan | 410.4 Mod | 8638 |
| Nitrate-N as N | ND | mg/l | 0.100 | 1 | 3/27/03 | 19:15 | W. Choate | 353.2 | 6637 |
| Nitrite-N as N | ND | mg/l | 0.100 | 1 | 3/27/03 | 20:03 | W. Choate | 353.2 | 6640 |
| Fluoride | 0.330 | mg/l | 0.100 | 1 | 4/ 2/03 | 13:40 | T. Beverly | 340.2MOD | 871 |
| Sulfate | 55.0 | mg/l | 5.00 | 5 | 3/31/03 | 10:06 | M.Shockley | 375.4 | 9871 |
| Chlorine, residual | ND | mg/l | 0.0200 | 1 | 3/28/03 | 8:32 | T. Beverly | 330.5 | 6630 |
| Apparent Color | ND | Color Unit | | | 3/28/03 | 10:15 | T. Beverly | 110.2 | 6632 |
| pH | 1.90 | pH Units | | | 3/28/03 | 10:15 | T. Beverly | 150.1 | 6632 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 4/ 1/03 | 14:00 | S. Duncan | 365.4 | 8632 |
| Hardness | 129. | mg/l | 5.00 | 1 | 3/28/03 | 11:37 | S. Duncan | 130.1 | 7235 |
| Total Organic Carbon | 2.96 | mg/l | 1.00 | 1 | 3/29/03 | 12:52 | M.Checolle | 415.1 | 8042 |
| Total Suspended Solids | 102. | mg/l | 4.00 | 4 | 3/28/03 | 18:10 | G. Baun | 160.2 | 6715 |
| Sulfite | ND | mg/l | 5.00 | 1 | 3/27/03 | 20:00 | B. Yanna | 377.1 | 6634 |
| Sulfide | ND | mg/l | 1.00 | 1 | 4/ 1/03 | 15:20 | B. Yanna | 376.1 | 9587 |
| Organic Nitrogen | 0.474 | mg/l | 0.100 | 1 | 4/ 3/03 | | S. Prayter | 351.4 | 1481 |
| Chloride | 3.30 | mg/l | 1.00 | 1 | 4/ 1/03 | 13:28 | S. Duncan | 325.2 | 7236 |
| Bromide | ND | mg/l | 1.00 | 1 | 3/28/03 | 18:21 | S. Duncan | 300 | 7316 |
| Oil & Grease as HEM | ND | mg/l | 5.68 | 1 | 4/ 3/03 | 10:13 | M. Cauthen | 1664 | 597 |

LABORATORY COMMENTS:

ND = Not detected at the report limit.

B = Analyte was detected in the method blank.

J = Estimated Value below Report Limit.

E = Estimated Value above the calibration limit of the instrument.

# = Recovery outside Laboratory historical or method prescribed limits.

M = COD method modified for HACH Method 8000.

M = Fluoride method modified to exclude distillation.

See attached report for Cyanide and Ammonia analysis.

End of Sample Report.

**TEST AMERICA ANALYTICAL TESTING CORP.-NASHVILLE**

**COOLER RECEIPT FORM** **BC#** 325445

Client: Western Ky Energy

Cooler Received On: 3/27/03 And Opened On: 3/27/03 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 0.6 Degrees Celsius
2. Were custody seals on outside of cooler?.....(YES)...NO....NA
   a. If yes, how many, what kind and where: (1) front
3. Were custody seals on containers and intact?.....(NO).YES...NA
4. Were the seals intact, signed, and dated correctly?.....(YES)...NO...NA
5. Were custody papers inside cooler?.....(YES)..NO...NA
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES)..NO...NA
7. Did you sign the custody papers in the appropriate place?.....(YES)....NO...NA
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES)..NO...NA
10. Did all bottles arrive in good condition( unbroken)?.....(YES).NO...NA
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES).NO...NA
12. Did all bottle labels and tags agree with custody papers?.....(YES)..NO...NA
13. Were correct bottles used for the analysis requested?.....(YES)..NO...NA
14. a. Were VOA vials received?.....(YES)..NO...NA
    b. Was there any observable head space present in any VOA vial?.....(NO).YES...NA
15. Was sufficient amount of sample sent in each bottle?.....(YES)...NO...NA
16. Were correct preservatives used?.....(YES).NO...NA
    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?.....(NO)..YES...NA
18. See attached for resolution of non-conformance:

(Fed-Ex) UPS Velocity Airborne Route Off-street Misc.

# SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica
INCORPORATED
Nashville Division

DATE RECEIVED: 3-27-03 ACCT NO.: 5407

SDG NUMBER: 325445 (45773) COMPANY NAME: Western Ky Energy

| Relinquished by: | Date/Time: | Received by: | Date/Time |
|---|---|---|---|
| (w) | 3-27-03 @ 14:15 | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |
| | | (w) | 32803 @ 0927 |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |
| | | | |

**NONCONFORMANCE ISSUE(S):**

#1) OIL & GREASE METHOD?

METALS LIST?

TPH METHOD?

TCLP WHAT?

EDB METHOD?

HERB LIST- LONG OR SHORT?

NEED LIST OF COMPOUNDS?

RUN SOILS BY 8260 INSTEAD OF 8021?

TEMPERATURE UPON RECEIPT?

SATURDAY DELIVERY MARKED?

ICE -- OR-- NO ICE??

SAMPLES TO BE SUBCONTRACTED?

NO COC - PLEASE FAX

NO ANALYSIS REQUESTED?

DOCUMENTATION LEVEL?

OUT OF HOLDING TIME -- TEST:

**OTHER:** #2) No Bromine available #3) Cn + Ammonia - sit ok to?

**RESOLUTION:** (1) 110104 (2) O.K. (3) yes Can Sub. Please bring containers those are on the SUB-out shelf. (w)

| PERSON CONTACTED | DATE/TIME | VIA E-MAIL or VOICEMAIL | NOTES AND/OR COMMENTS: |
|---|---|---|---|
| Tom Shaw | 27 May 5:31 | LM | |
| | | | |
| | | | |
| | | | |

Revised 12/9/02

325445

1 of 3

**TestAmerica** INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring YES

Client Name _____ Client #: _____
Address: _____
City/State/Zip Code: _____
Project Manager: _____
Telephone Number: _____ Fax: _____
Sampler Name: (Print Name) _____
Sampler Signature: _____

Project Name: Wilson Conveyor Project
Project #: _____
Site/Location ID: _____ State: KY
Report To: Tom Shaw
Invoice To: Tom Shaw
Quote #: _____ PO#: 320904

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: | | | | | 03A | 45771 | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pond 1 | 3/26 | 11:42 | G | | | | 1 | | | | | | Per list | | | | | | | | 2-VOAs |
| Pond 1 | 3/26 | 11:40 | G | | | | | 1 | | | | | Per list | | | | | | | | |
| Pond 1 | 3/26 | 11:41 | G | | | | | | | | | | | | | | | | | | |
| Pond 1 | 3/26 | 11:42 | G | | | | | | | | 1 | | | | | | | | | | 2-1000 |
| Pond 1 | 3/26 | 11:43 | G | | | 1 | | | | | | | | | | | | | | | |
| Pond 1 | 3/26 | 11:45 | G | | | | | | 1 | | | | | | | | | | | | |
| Pond 1 | 3/26 | 11:44 | C | | | | | | 1 | | | | | | | | | | | | |
| ~~Pond 1~~ | | | | | | | | | | | | | | | | | | | | | |
| ~~Pond 1~~ | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

| Relinquished By: | Date: | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | 3-27-03 Date: | 0815 Time: |

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 0.0°C
Custody Seals: (Y) N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

325445

2 of 3

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: _____ Client #: _____
Address: _____
City/State/Zip Code: _____
Project Manager: _____
Telephone Number: _____ Fax: _____
Sampler Name: (Print Name) _____
Sampler Signature: _____

Project Name: Wilson Convenience Project
Project #: _____
Site/Location ID: _____ State: _____
Report To: _____
Invoice To: _____
Quote #: _____ PO#: 320904

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, OW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pond 2 | 3/26 | 12:03 | G | | | | | | ✓ | | | | See list | | | | | 03A | 45772 | | |
| | 3/26 | 12:06 | G | | | | | | | | ✓ | | | | | | | | | | 2 SAMPLES |
| | 3/26 | 12:10 | G | | | ✓ | | | | | | | | | | | | | | | |
| | 3/26 | 12:05 | G | | | ✓ | | | | | | | | | | | | | | | |
| | 3/26 | 12:01 | G | | | | | ✓ | | | | | | | | | | | | | |
| | 3/26 | 12:02 | G | | | | | | ✓ | | | | | | | | | | | | |
| | 3/26 | 12:00 | G | | | | ✓ | | | | | | | | | | | | | | 2 SAMPLES |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 0.6c
Custody Seals: (Y) N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By: | Date: | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: (W) | 3-27-03 Date: | 0615 Time: |

325445

3 of 3

**TestAmerica** INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: YES

Client Name: _____ Client #: _____
Address: _____
City/State/Zip Code: _____
Project Manager: _____
Telephone Number: _____ Fax: _____
Sampler Name: (Print Name) _____
Sampler Signature: _____

Project Name: Wilson Conveyor Project
Project #: _____
Site/Location ID: Wilson State: KY
Report To: Tom Shaw
Invoice To: Tom Shaw
Quote #: _____ PO#: 320904

TAT: ✓ Standard; ___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: SOE ICP | 03A | 45713 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pond 4 | 3/26 | 12:55 | G | | | | | | | | ✓ | | | | | |
| | 3/26 | 12:51 | G | | | | | ✓ | | | | | | | | |
| | 3/26 | 12:58 | G | | | | ✓ | | | | | | | | | 2 - Samples |
| | 3/26 | 12:48 | G | | | | | | | | ✓ | | | | | |
| | 3/26 | 12:49 | G | | | | | | ✓ | | | | | | | |
| | 3/26 | 12:52 | G | | | ✓ | | | | | | | | | | |
| | 3/26 | 12:49 | | | | | | ✓ | | | | | | | | 2 - Samples |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp: 0.6°C
Custody Seals: ✓ N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: Tom Shaw | Date: 3/26/03 | Time: 2:00 | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: ✓ | Date: 3-27-03 | Time: 0815 |

# SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica INCORPORATED
Nashville Division

DATE RECEIVED: 3.27.09 ACCT NO.: 8407

SDG NUMBER: N/A COMPANY NAME: Western Ky Energy

| Relinquished by: | Date/Time: | Received by: | Date/Time |
|---|---|---|---|
| CW | 3.27.09 @ 10:26 | | |
| | | | |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |
| | 3/27/09 1106 | CW | 3.27.09 @ 13:15 |
| Relinquished by: | Date/Time: | Received by: | Date/Time: |
| | | | |

**NONCONFORMANCE ISSUE(S):**

Short hold
Expedite answer

| | |
|---|---|
| OIL & GREASE METHOD? | METALS LIST? |
| TPH METHOD? | TCLP WHAT? |
| EDB METHOD? | HERB LIST- LONG OR SHORT? |
| NEED LIST OF COMPOUNDS? | RUN SOILS BY 8260 INSTEAD OF 8021? |
| TEMPERATURE UPON RECEIPT? | SATURDAY DELIVERY MARKED? |
| ICE -- OR-- NO ICE?? | SAMPLES TO BE SUBCONTRACTED? |
| NO COC - PLEASE FAX | NO ANALYSIS REQUESTED? |
| DOCUMENTATION LEVEL? | OUT OF HOLDING TIME -- TEST: |

**OTHER:** Per client note send-up if no matrix or method requested.

**RESOLUTION:** Run what is requested on the attached sheets per KY requirements. Waste water

| PERSON CONTACTED | DATE/TIME | VIA E-MAIL or VOICEMAIL | NOTES AND/OR COMMENTS: |
|---|---|---|---|
| Tom Shaw | 3/30/09 | spoke. | |
| | | | |
| | | | |
| | | | |

Revised 12/9/02

TestAmerica
ANALYTICAL TESTING CORPORATION

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 1**
**Laboratory Receipt Date: 3/27/03**

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| Mercury | mg/l | < 0.00020 | 0.00103 | 0.00100 | 103 | 80 - 120 | 9895 | 03-A46686 |
| Aluminum | mg/l | 0.0670 | 2.21 | 2.00 | 107 | 80 - 120 | 7502 | Duplicate |
| Antimony | mg/l | < 0.0050 | 0.0720 | 0.100 | 72# | 80 - 120 | 7502 | Duplicate |
| Arsenic | mg/l | < 0.0050 | 0.0390 | 0.0500 | 78# | 80 - 120 | 7502 | Duplicate |
| Barium | mg/l | 0.0230 | 2.11 | 2.00 | 104 | 80 - 120 | 7502 | Duplicate |
| Beryllium | mg/l | < 0.0040 | 0.0580 | 0.0500 | 116 | 80 - 120 | 7502 | Duplicate |
| Cadmium | mg/l | < 0.0010 | 0.0530 | 0.0500 | 106 | 80 - 120 | 7502 | Duplicate |
| Chromium | mg/l | < 0.0050 | 0.218 | 0.200 | 109 | 80 - 120 | 7502 | Duplicate |
| Cobalt | mg/l | < 0.0200 | 0.545 | 0.500 | 109 | 80 - 120 | 7502 | Duplicate |
| Copper | mg/l | 0.0590 | 0.306 | 0.250 | 99 | 80 - 120 | 7502 | Duplicate |
| Iron, total | mg/l | 0.411 | 1.43 | 1.00 | 102 | 80 - 120 | 7502 | Duplicate |
| Lead | mg/l | 0.0040 | 0.0520 | 0.0500 | 96 | 80 - 120 | 7502 | Duplicate |
| Manganese | mg/l | 0.0170 | 0.558 | 0.500 | 108 | 80 - 120 | 7502 | Duplicate |
| Molybdenum | mg/l | 1.87 | 2.32 | 0.500 | 90 | 80 - 120 | 7502 | Duplicate |
| Nickel | mg/l | < 0.0100 | 0.560 | 0.500 | 112 | 80 - 120 | 7502 | Duplicate |
| Selenium | mg/l | 0.0500 | 0.102 | 0.0500 | 104 | 80 - 120 | 7502 | Duplicate |
| Silver | mg/l | < 0.0050 | 0.0520 | 0.0500 | 104 | 80 - 120 | 7502 | Duplicate |
| Thallium | mg/l | < 0.0020 | < 0.0020 | 0.0500 | N/A | 80 - 120 | 7502 | Duplicate |
| Tin | mg/l | 0.107 | 1.08 | 1.00 | 97 | 80 - 120 | 7502 | Duplicate |
| Zinc | mg/l | 0.0560 | 0.621 | 0.500 | 113 | 80 - 120 | 7502 | Duplicate |
| Titanium | mg/l | < 0.0500 | 1.00 | 1.00 | 100 | 80 - 120 | 7502 | Duplicate |
| Boron | mg/l | 0.0640 | 0.969 | 1.00 | 90 | 80 - 120 | 7502 | Duplicate |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 2**
**Laboratory Receipt Date: 3/27/03**

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | | | | |
| Nitrate-N as N | mg/l | 0.200 | 6.23 | 5.50 | 110 | 80 - 120 | 6637 | 03-A45771 |
| Nitrate-N as N | mg/l | 0.200 | 6.30 | 5.50 | 111 | 80 - 120 | 6637 | 03-A45771 |
| Nitrite-N as N | mg/l | < 0.100 | 3.13 | 3.00 | 104 | 80 - 120 | 6640 | 03-A45771 |
| Fluoride | mg/l | < 0.200 | 2.10 | 2.00 | 105 | 80 - 120 | 871 | 03-A45776 |
| Sulfate | mg/l | < 1.00 | 17.6 | 20.0 | 88 | 80 - 120 | 9871 | 03-A45457 |
| Phosphorus | mg/l | 0.454 | 2.26 | 2.00 | 90 | 80 - 120 | 8632 | 03-A45531 |
| Total Organic Carbon | mg/l | 2.06 | 23.3 | 20.0 | 106 | 80 - 120 | 8042 | 03-A45400 |
| Sulfite | mg/l | < 3.0 | 20.8 | 20.0 | 104 | 80 - 120 | 6634 | 03-A45772 |
| Sulfide | mg/l | < 1.000 | 20.80 | 20.00 | 104 | 80 - 120 | 9587 | 03-A45451 |
| Organic Nitrogen | mg/l | < 0.100 | 2.30 | 2.50 | 92 | 80 - 120 | 1481 | blank |
| Chloride | mg/l | 2.87 | 13.1 | 10.0 | 102 | 80 - 120 | 7236 | 03-A45771 |
| Oil & Grease as HEM | mg/l | < 5.00 | 38.4 | 40.0 | 96 | 80 - 120 | 597 | blank |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Mercury | mg/l | 0.00103 | 0.00107 | 3.81 | 20 | 9895 |
| Aluminum | mg/l | 2.21 | 2.00 | 9.98 | 20 | 7502 |
| Antimony | mg/l | 0.0720 | 0.0710 | 1.40 | 20 | 7502 |
| Arsenic | mg/l | 0.0390 | 0.0420 | 7.41 | 20 | 7502 |
| Barium | mg/l | 2.11 | 2.10 | 0.48 | 20 | 7502 |
| Beryllium | mg/l | 0.0580 | 0.0600 | 3.39 | 20 | 7502 |
| Cadmium | mg/l | 0.0530 | 0.0540 | 1.87 | 20 | 7502 |
| Chromium | mg/l | 0.218 | 0.222 | 1.82 | 20 | 7502 |
| Cobalt | mg/l | 0.545 | 0.554 | 1.64 | 20 | 7502 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 3**
**Laboratory Receipt Date: 3/27/03**

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| Copper | mg/l | 0.306 | 0.294 | 4.00 | 20 | 7502 |
| Iron, total | mg/l | 1.43 | 1.44 | 0.70 | 20 | 7502 |
| Lead | mg/l | 0.0520 | 0.0520 | 0.00 | 20 | 7502 |
| Magnesium | mg/l | 2.17 | 2.13 | 1.86 | 20 | 7502 |
| Manganese | mg/l | 0.558 | 0.567 | 1.60 | 20 | 7502 |
| Molybdenum | mg/l | 2.32 | 2.36 | 1.71 | 20 | 7502 |
| Nickel | mg/l | 0.560 | 0.567 | 1.24 | 20 | 7502 |
| Selenium | mg/l | 0.102 | 0.105 | 2.90 | 20 | 7502 |
| Silver | mg/l | 0.0520 | 0.0510 | 1.94 | 20 | 7502 |
| Thallium | mg/l | < 0.0020 | < 0.0020 | N/A | 20 | 7502 |
| Tin | mg/l | 1.08 | 1.10 | 1.83 | 20 | 7502 |
| Zinc | mg/l | 0.621 | 0.643 | 3.48 | 20 | 7502 |
| Titanium | mg/l | 1.00 | 1.01 | 1.00 | 20 | 7502 |
| Boron | mg/l | 0.969 | 0.969 | 0.00 | 20 | 7502 |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | | |
| Nitrate-N as N | mg/l | 6.23 | 6.30 | 1.12 | 20 | 6637 |
| Nitrite-N as N | mg/l | 3.13 | 3.10 | 0.96 | 20 | 6640 |
| Fluoride | mg/l | 2.10 | 2.00 | 4.88 | 20 | 871 |
| Sulfate | mg/l | 17.6 | 17.6 | 0.00 | 20 | 9871 |
| Phosphorus | mg/l | 2.26 | 2.29 | 1.32 | 20 | 8632 |
| Total Organic Carbon | mg/l | 23.3 | 25.4 | 8.62 | 20 | 8042 |
| Sulfite | mg/l | 20.8 | 20.8 | 0.00 | 20 | 6634 |
| Sulfide | mg/l | 20.80 | 20.20 | 2.93 | 20 | 9587 |
| Organic Nitrogen | mg/l | 2.30 | 2.30 | 0.00 | 20 | 1481 |
| Chloride | mg/l | 13.1 | 13.2 | 0.76 | 20 | 7236 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 4**
**Laboratory Receipt Date: 3/27/03**

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| Oil & Grease as HEM | mg/l | 38.4 | 39.6 | 3.08 | 20 | 597 |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Mercury | mg/l | 0.00100 | 0.00110 | 110 | 85 - 115 | 9895 |
| Aluminum | mg/l | 2.00 | 2.12 | 106 | 85 - 115 | 7502 |
| Antimony | mg/l | 0.100 | 0.0950 | 95 | 85 - 115 | 7502 |
| Arsenic | mg/l | 0.0500 | 0.0570 | 114 | 85 - 115 | 7502 |
| Barium | mg/l | 2.00 | 2.06 | 103 | 85 - 115 | 7502 |
| Beryllium | mg/l | 0.0500 | 0.0550 | 110 | 85 - 115 | 7502 |
| Cadmium | mg/l | 0.0500 | 0.0520 | 104 | 85 - 115 | 7502 |
| Chromium | mg/l | 0.200 | 0.211 | 106 | 85 - 115 | 7502 |
| Cobalt | mg/l | 0.500 | 0.528 | 106 | 85 - 115 | 7502 |
| Copper | mg/l | 0.250 | 0.243 | 97 | 85 - 115 | 7502 |
| Iron, total | mg/l | 1.00 | 1.08 | 108 | 85 - 115 | 7502 |
| Lead | mg/l | 0.0500 | 0.0490 | 98 | 85 - 115 | 7502 |
| Magnesium | mg/l | 5.00 | 5.22 | 104 | 85 - 115 | 7502 |
| Manganese | mg/l | 0.500 | 0.526 | 105 | 85 - 115 | 7502 |
| Molybdenum | mg/l | 0.500 | 0.509 | 102 | 85 - 115 | 7502 |
| Nickel | mg/l | 0.500 | 0.545 | 109 | 85 - 115 | 7502 |
| Selenium | mg/l | 0.0500 | 0.0540 | 108 | 85 - 115 | 7502 |
| Silver | mg/l | 0.0500 | 0.0530 | 106 | 85 - 115 | 7502 |
| Thallium | mg/l | 0.0500 | 0.0490 | 98 | 85 - 115 | 7502 |
| Tin | mg/l | 1.00 | 0.978 | 98 | 85 - 115 | 7502 |
| Zinc | mg/l | 0.500 | 0.506 | 101 | 85 - 115 | 7502 |
| Titanium | mg/l | 1.00 | 0.975 | 98 | 85 - 115 | 7502 |
| Boron | mg/l | 1.00 | 0.965 | 96 | 85 - 115 | 7502 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 5**
**Laboratory Receipt Date: 3/27/03**

Continuing Calibration Verification

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 20.0 | 18.2 | 91 | 90 - 110 | 8638 |
| Nitrate-N as N | mg/l | 5.50 | 6.00 | 109 | 90 - 110 | 6637 |
| Nitrite-N as N | mg/l | 3.00 | 3.00 | 100 | 90 - 110 | 6640 |
| Fluoride | mg/l | 2.00 | 1.90 | 95 | 90 - 110 | 871 |
| Sulfate | mg/l | 25.0 | 24.4 | 98 | 90 - 110 | 9871 |
| Phosphorus | mg/l | 2.00 | 1.84 | 92 | 90 - 110 | 8632 |
| BOD 5 Day | mg/l | 198. | 196. | 99 | 85 - 115 | 6731 |
| Total Organic Carbon | mg/l | 200. | 205. | 102 | 90 - 110 | 8042 |
| Sulfite | mg/l | 20.0 | 19.2 | 96 | 90 - 110 | 6634 |
| Sulfide | mg/l | 20.00 | 20.10 | 100 | 90 - 110 | 9587 |
| Organic Nitrogen | mg/l | 2.50 | 2.30 | 92 | 90 - 110 | 1481 |
| Chloride | mg/l | 10.0 | 10.6 | 106 | 90 - 110 | 7236 |
| Bromide | mg/l | 10.0 | 10.1 | 101 | 90 - 110 | 7316 |
| Oil & Grease as HEM | mg/l | 40.0 | 38.3 | 96 | 78 - 114 | 597 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/l | 17800 | 17600 | 1.13 | 15. | 8638 | 03-A46774 |
| Nitrate-N as N | mg/l | < 0.100 | < 0.100 | N/A | 15. | 6637 | 03-A45773 |
| Nitrite-N as N | mg/l | < 0.100 | < 0.100 | N/A | 15. | 6640 | 03-A45773 |
| Fluoride | mg/l | < 0.200 | < 0.200 | N/A | 15. | 871 | 03-A45780 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 6**
**Laboratory Receipt Date: 3/27/03**

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Sulfate | mg/l | 6.60 | 6.80 | 2.99 | 15. | 9871 | 03-A45775 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6731 | 03-A45511 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6731 | 03-A45773 |
| Total Suspended Solids | mg/l | 23.5 | 23.5 | 0.00 | 15. | 6715 | 03-A45591 |
| Total Suspended Solids | mg/l | 102. | 103. | 0.98 | 15. | 6715 | 03-A45773 |
| Chloride | mg/l | < 1.00 | < 1.00 | N/A | 15. | 7236 | 03-A45780 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **METALS** | | | | | |
| Mercury | < 0.00020 | mg/l | 9895 | 4/ 2/03 | 11:34 |
| Aluminum | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |
| Antimony | < 0.0050 | mg/l | 7502 | 3/31/03 | 22:00 |
| Arsenic | < 0.0050 | mg/l | 7502 | 3/31/03 | 22:00 |
| Barium | < 0.0100 | mg/l | 7502 | 3/31/03 | 22:00 |
| Beryllium | < 0.0040 | mg/l | 7502 | 3/31/03 | 22:00 |
| Cadmium | < 0.0010 | mg/l | 7502 | 3/31/03 | 22:00 |
| Chromium | < 0.0050 | mg/l | 7502 | 3/31/03 | 22:00 |
| Cobalt | < 0.0200 | mg/l | 7502 | 3/31/03 | 22:00 |
| Copper | < 0.0100 | mg/l | 7502 | 3/31/03 | 22:00 |
| Iron, total | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |
| Lead | < 0.0030 | mg/l | 7502 | 3/31/03 | 22:00 |
| Magnesium | < 1.00 | mg/l | 7502 | 3/31/03 | 22:00 |
| Manganese | < 0.0150 | mg/l | 7502 | 3/31/03 | 22:00 |
| Molybdenum | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |
| Nickel | < 0.0100 | mg/l | 7502 | 3/31/03 | 22:00 |
| Selenium | < 0.0050 | mg/l | 7502 | 3/31/03 | 22:00 |
| Silver | < 0.0050 | mg/l | 7502 | 3/31/03 | 22:00 |
| Thallium | < 0.0020 | mg/l | 7502 | 3/31/03 | 22:00 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 7**
**Laboratory Receipt Date: 3/27/03**

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Tin | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |
| Zinc | < 0.0200 | mg/l | 7502 | 3/31/03 | 22:00 |
| Titanium | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |
| Boron | < 0.0500 | mg/l | 7502 | 3/31/03 | 22:00 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | |
| Chemical Oxygen Demand | < 3.00 | mg/l | 8638 | 4/ 1/03 | 18:47 |
| Nitrate-N as N | < 0.100 | mg/l | 6637 | 3/27/03 | 19:11 |
| Nitrite-N as N | < 0.100 | mg/l | 6640 | 3/27/03 | 19:59 |
| Fluoride | < 0.200 | mg/l | 871 | 4/ 2/03 | 13:40 |
| Sulfate | < 1.00 | mg/l | 9871 | 3/31/03 | 10:06 |
| Phosphorus | < 0.100 | mg/l | 8632 | 4/ 1/03 | 14:00 |
| BOD 5 Day | < 2.00 | mg/l | 6731 | 4/ 1/03 | 21:15 |
| Total Organic Carbon | < 1.00 | mg/l | 8042 | 3/29/03 | 12:52 |
| Total Suspended Solids | < 1.0 | mg/l | 6715 | 3/28/03 | 18:10 |
| Total Suspended Solids | < 1.0 | mg/l | 6715 | 3/28/03 | 18:10 |
| Sulfite | < 3.0 | mg/l | 6634 | 3/27/03 | 20:00 |
| Sulfide | < 1.000 | mg/l | 9587 | 4/ 1/03 | 15:20 |
| Organic Nitrogen | < 0.100 | mg/l | 1481 | 4/ 3/03 | |
| Chloride | < 1.00 | mg/l | 7236 | 4/ 1/03 | 13:24 |
| Bromide | < 1.00 | mg/l | 7316 | 3/28/03 | 18:21 |
| Oil & Grease as HEM | < 5.00 | mg/l | 597 | 4/ 3/03 | 10:13 |

Project QC continued . . .

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**PROJECT QUALITY CONTROL DATA**
**Project Number:**
**Project Name: WILSON CONVEYOR PROJECT**
**Page: 8**
**Laboratory Receipt Date: 3/27/03**

End of Report for Project 325445

# TestAmerica Analytical Testing Corporation

Jennifer Chapman
TESTAMERICA,INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204

Job Number: 03.06335
Report Date: 04/02/2003


Enclosed is the Analytical and Quality Control Reports for the following samples submitted to TestAmerica for analysis:

Project: 325445

| Sample Number | Sample Description | Date Taken | Date Received |
|---|---|---|---|
| 833068 | 03a45771 Pond 1 | 03/26/2003 | 03/29/2003 |
| 833069 | 03a45772 Pond 2 | 03/26/2003 | 03/29/2003 |
| 833070 | 03a45773 Pond 4 | 03/26/2003 | 03/29/2003 |

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed. Reproduction of this report is permitted only in its entirety.

Enclosure

Project Management Approval

# TestAmerica Analytical Testing Corporation
## Analytical Report

Jennifer Chapman
TESTAMERICA,INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204

Job Number: 03.06335
Report Date: 04/02/2003


**SAMPLE NO.** 833068 **SAMPLE DESCRIPTION** 03a45771 Pond 1 **DATE/TIME TAKEN** 03/26/2003 11:45

| | Result | Units | Reporting Limit | Flag | Run Date | Run Time | Prep Batch | Run Batch | Anal. Init. | Lab ID | Method Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia Prep | Complete | | Complete | | 03/31/2003 | | 2445 | | adb | DT | EPA 350.2 |
| Cyanide Prep | Complete | | Complete | | 04/02/2003 | | 2053 | | mlk | DT | EPA 335.2 (CLP-M) |
| Cyanide, Total | <0.005 | mg/L | <0.005 | | 04/02/2003 | | 2053 | 2540 | gcw | DT | EPA 335.2 Semi-Automated |
| Nitrogen, Ammonia Distilled | <0.10 | mg/L | <0.10 | | 03/31/2003 | | 2445 | 2432 | gcw | DT | EPA 350.1 |

**SAMPLE NO.** 833069 **SAMPLE DESCRIPTION** 03a45772 Pond 3 **DATE/TIME TAKEN** 03/26/2003 12:03

| | Result | Units | Reporting Limit | Flag | Run Date | Run Time | Prep Batch | Run Batch | Anal. Init. | Lab ID | Method Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia Prep | Complete | | Complete | | 03/31/2003 | | 2445 | | adb | DT | EPA 350.2 |
| Cyanide Prep | Complete | | Complete | | 04/02/2003 | | 2053 | | mlk | DT | EPA 335.2 (CLP-M) |
| Cyanide, Total | <0.005 | mg/L | <0.005 | | 04/02/2003 | | 2053 | 2540 | gcw | DT | EPA 335.2 Semi-Automated |
| Nitrogen, Ammonia Distilled | <0.10 | mg/L | <0.10 | | 03/31/2003 | | 2445 | 2432 | gcw | DT | EPA 350.1 |

**SAMPLE NO.** 833070 **SAMPLE DESCRIPTION** 03a45773 Pond 4 **DATE/TIME TAKEN** 03/26/2003 12:55

| | Result | Units | Reporting Limit | Flag | Run Date | Run Time | Prep Batch | Run Batch | Anal. Init. | Lab ID | Method Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia Prep | Complete | | Complete | | 03/31/2003 | | 2445 | | adb | DT | EPA 350.2 |
| Cyanide Prep | Complete | | Complete | | 04/02/2003 | | 2053 | | mlk | DT | EPA 335.2 (CLP-M) |
| Cyanide, Total | <0.005 | mg/L | <0.005 | | 04/02/2003 | | 2053 | 2540 | gcw | DT | EPA 335.2 Semi-Automated |
| Nitrogen, Ammonia Distilled | <0.10 | mg/L | <0.10 | | 03/31/2003 | | 2445 | 2432 | gcw | DT | EPA 350.1 |

# TestAmerica Analytical Testing Incorporated
## Quality Control Report
## Continuing Calibration Verification

Jennifer Chapman
TESTAMERICA, INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204



| Analyte | Run Batch Number | CCV True Conc. | CCV Conc. Result | % Rec. |
|---|---|---|---|---|
| Cyanide, Total | 2510 | 0.100 | 0.101 | 101 |
| Nitrogen, Ammonia Distilled | 2432 | 0.5 | 0.49 | 98 |

# TestAmerica Analytical Testing Corporation
## Quality Control Report
## Blanks

Jennifer Chapman
TESTAMERICA, INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204

Job Number: 03.06335
Report Date: 04/02/2003


| Analyte | Prep Batch Number | Run Batch Number | Blank Result | Units | Date Prepped | Date Analysed |
|---|---|---|---|---|---|---|
| Cyanide, Total | 2053 | 2540 | <0.005 | mg/L | 04/02/2003 | 04/02/2003 |
| Nitrogen, Ammonia Distilled | 2445 | 2432 | <0.30 | mg/L | 03/31/2003 | 03/31/2003 |

# TestAmerica Analytical Testing Corporation
## Quality Control Report
## Laboratory Control Standard

Jennifer Chapman
TESTAMERICA, INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204

Job Number: 03.06335
Report Date: 04/02/2003


LCS/LCS Dups do not apply to all parameters and are used in place of MS/MSD for precision determinations when sample volume is unavailable for spiking a client sample.

| Analyte | Prep Batch No. | Run Batch No. | Date Analyzed | LCS True Conc | LCS Conc Found | LCS % Rec | LCSD Conc Found | LCSD % Rec | RPD |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 2053 | 2540 | 04/02/2003 | 0.100 | 0.098 | 98 | | | |
| Nitrogen, Ammonia Distilled | 2445 | 2432 | 03/31/2003 | 1.0 | 0.84 | 84 | | | |

# TestAmerica Analytical Testing Corporation
## Quality Control Report
## Matrix Spike/Matrix Spike Duplicate

Jennifer Chapman
TESTAMERICA, INC.-NASHVILLE
2960 Foster Creighton Dr.
Nashville, TN 37204



Matrix Spike/Matrix Spike Duplicate Samples may not be samples from this job.

| Analyte | Sample Number | Prep Batch Number | Run Batch Number | MS % Rec | MSD % Rec | RPD | Flags |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 832899 | 2053 | 2540 | 116 | 99 | 16 | |
| Nitrogen, Ammonia Distilled | 833050 | 2445 | 2492 | 91 | 92 | 1.1 | |

WESTERN KENTUCKY ENERGY

Western Kentucky Energy Corp.
[illegible] N. Main Street
P.O. Box [illegible]
Henderson, KY [illegible]
[illegible]
[illegible]

July 14, 2004

Courtney Seitz
Inventory and Data Management Section
KPDES Branch
Division of Water
Frankfort Office Park
14 Reilly Rd.
Frankfort KY 40601

Re: KPDES No: KY0054836

Dear Mr. Seitz

Please find enclosed a permit renewal application and fee for Western Kentucky Energy's D.B. Wilson power plant. The application is complete except for section V. The samples have been collected and delivered to Test America Laboratories. I will complete part V upon receipt of the analysis from Test America Laboratories and forward the form to your attention.

If you have any questions please feel free to call me at 270-844-6031 or e-mail to tom.shaw@lgeenergy.com.

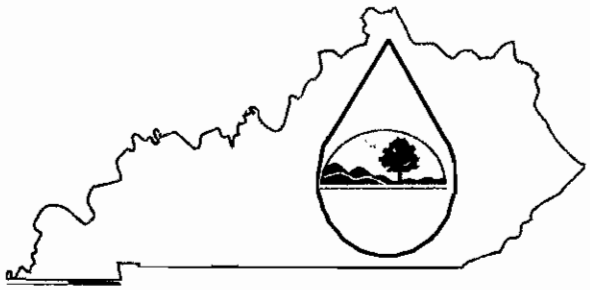
Sincerely,

Thomas L Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

[illegible]

# KPDES FORM 1



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☒ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

| I. FACILITY LOCATION AND CONTACT INFORMATION | AGENCY USE |
|---|---|

A. Name of business, municipality, company, etc. requesting permit
Western Kentucky Energy

| B. Facility Name and Location | C. Facility Owner/Mailing Address |
|---|---|
| Facility Location Name.<br>D.B. Wilson Station | Owner Name:<br>Big Rivers Electric Corp |
| Facility Location Address (i.e. street, road, etc.):<br>5663 State Route Hwy 85 West | Mailing Street:<br>201 Third Street, P.O. Box 24 |
| Facility Location City, State, Zip Code:<br>Centertown, KY 42328 | Mailing City, State, Zip Code:<br>Henderson, KY 42420 |
| | Telephone Number:<br>(270)844-6031 |

**II. FACILITY DESCRIPTION**

A. Provide a brief description of activities, products, etc: Steam electric generation. Addition of new discharge points along fuel conveyor system.

B. Standard Industrial Classification (SIC) Code and Description

| | | | |
|---|---|---|---|
| Principal SIC Code & Description: | 4911 Coal-fired steam electric | | |
| Other SIC Codes: | | | |

**III. FACILITY LOCATION**

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| B. County where facility is located: | City where facility is located (if applicable): |
|---|---|
| Ohio | Between Island and Centertown |

C. Body of water receiving discharge:
Green River

| D. Facility Site Latitude (degrees, minutes, seconds): | Facility Site Longitude (degrees, minutes, seconds): |
|---|---|
| N37-27-15 | W87-06-06 |

E. Method used to obtain latitude & longitude (see instructions): Topo

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 031072619

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:
☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Feb 2001 | Oct 2004 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: June 1980 | Sludge Disposal Permit Number: |
| Kentucky DOW Operational Permit #. | Kentucky DSMRE Permit Number(s): | |

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | 0-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Gregory Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson, KY 42419-1518 |
| DMR Official Telephone Number: | 270-844-6022 |

## VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

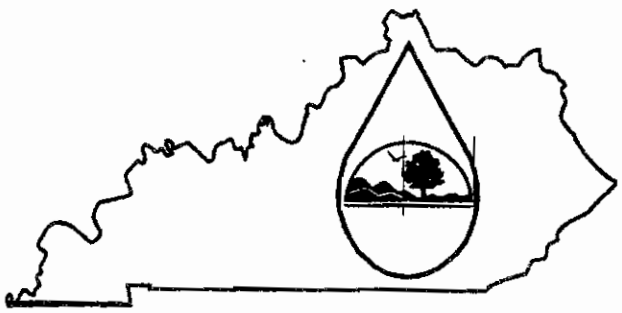
| Facility Fee Category: | Filing Fee Enclosed: |
|---|---|
| Major Industry | 640 00 |

## VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Gregory Black, Manager of Env & Tech Services | 270-844-6022 |
| SIGNATURE: Gregory Black | DATE: July 12, 2004 |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: D.B. Wilson

County: Ohio

AGENCY USE

### I. OUTFALL LOCATION

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 001 | 37 | 27 | 15 | 87 | 06 | 06 | Green River |
| 002 | 37 | 28 | 45 | 87 | 04 | 10 | Green River |
| 003 | 37 | 26 | 40 | 87 | 04 | 57 | Elk Creek |
| 005 | | | | | | | Internal to 001 |

### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 001 | Main Plant discharge | 0.15 MGD | | |
| | Contributing Flows: | | | |
| | Waste Water Pond | 0.32 MGD | | |
| | Coal Pile Runoff | | | |
| | Plant Drains | | | |
| | Cooling Tower Blowdown | 0.19 MGD | | |
| | Wastewater Impoundment | | | |
| | Plantsite runoff | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

of Facility: D.B. Wilson

County: Ohio

AGENCY USE

**ITFALL LOCATION**

ich outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| tfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 006 | | | | | | | Internal to 001 |
| 007 | | | | | | | Internal to 003 |
| 008 | | | | | | | Intake at Green River |
| 009 | 37 | 27 | 10 | 87 | 04 | 45 | Green River |

**FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| UTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| | Scrubber Sludge Landfill | 0.14 MGD | Storm water runoff | 2-K |
| | | | colledted in a pond | 1-U |
| 002 | | | for settling and | |
| | | | neutralization | |
| | | | | |
| | | | | |
| | Plant Site stormwater | 0.51 MGD | Stormwater runoff | 1U 2K |
| | runoff and sanitary | | sanitary wastewater | 4A 1-V |
| 003 | wastewater. | | sedimentation basins | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

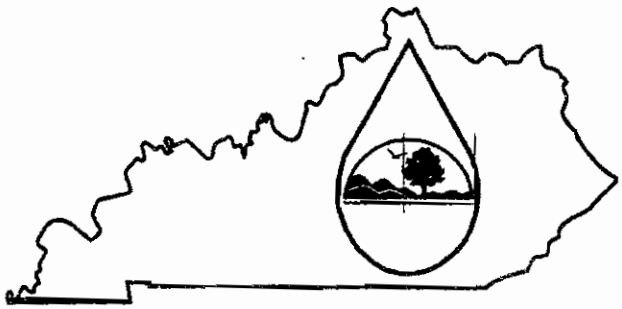
## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION, AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D.B. Wilson | County: Ohio |
|---|---|
| I. OUTFALL LOCATION | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 010 | 37 | 27 | 11 | 87 | 05 | 27 | Green River |
| 011 | 37 | 27 | 14 | 87 | 05 | 5 | Green River |
| 012 | 37 | 27 | 13 | 87 | 06 | 30 | Green River |
| 013 | 37 | 27 | 39 | 87 | 06 | 14 | Green River |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 010 | Stormwater runoff from solid fuel conveyor | 0.22 MGD | Settlement | 1-U 1-R |
| 011 | Stormwater runoff from solid fuel conveyor | 0.26 MGD | Settlement | 1-U 1-R |
| 012 | Stormwater runoff from solid fuel conveyor | 0.25 MGD | Settlement | 1-U 1-R |
| 013 | Stormwater runoff from solid fuel conveyor | 0.64 MGD | Settlement | 1-U 1-R |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | DURATION (in days) |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☒ Yes (List all such pollutants below) ☐ No (Go to Item VI-B)

Chlorine
Sodium Hydroxide
Propolyene Glycol
Sodium Hypochlorite
BETZ CDP (Polyaluminum Chloride)
Sulfuric Acid
DiBasic Acid
BETZ 3625 (Quantinary Amine)
BETZ 2460 (Anti Scaler)
Ammonia
BETZ 3200 (Corrosion inhibitor)
BETZ 3610 (Methylene Bis Thocyanate)
BETZ BRE-11 phosphonic acid
1, hydroxyethylidine Bis (HEDP)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| Test America | 2960 Foster Creighton Drive<br>Nashville, TN 37204 | 615-301-5041 | ALL |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Kenneth M. Stewart<br>General Manager - D.B. Wilson Station | 270-844-5012 |
| SIGNATURE | DATE |
| Kenneth M. Stewart | July 15, 2004 |

WESTERN KENTUCKY ENERGY
A SUBSIDIARY OF LG&E ENERGY

000109
020402

| DATE | INVOICE NUMBER | DESCRIPTION | DISCOUNT | NET AMOUNT |
|---|---|---|---|---|
| 29-JUN-04 | 6445 | KPDES PERMIT RENEWAL FEES FOR W | 0.00 | 640.00 |
| | | | 0.00 | 640.00 |

REMOVE DOCUMENT ALONG THIS PERFORATION

WESTERN KENTUCKY ENERGY
A SUBSIDIARY OF LG&E ENERGY

Western Kentucky Energy Corp.
PO Box 1518
145 N. Main Street
Henderson, KY 42420

611-GA / 433

Bank of America, N.A.
Atlanta, Dekalb County, GA

VOID AFTER 90 DAYS

NO. 152968

| DATE | NET AMOUNT |
|---|---|
| 02-JUL-04 | $********640.00 |

PAY Six Hundred Forty Dollars And 00 Cents**********

Daniel K. Arbogast
SIGNATURE

COUNTERSIGNED

TO THE ORDER OF

KENTUCKY STATE TREASURER
14 REILLY RD
DIVISION OF WATER
FRANKFORT, KY 40601

⑈0152968⑈ ⑆061112788⑆ 3299027674⑈

WESTERN KENTUCKY ENERGY
A SUBSIDIARY OF LG&E ENERGY

Western Kentucky Energy Corp.
PO Box 1518
145 N. Main Street
Henderson, KY 42420

KENTUCKY STATE TREASURER
14 REILLY RD
DIVISION OF WATER
FRANKFORT, KY 40601

ERNIE FLETCHER
GOVERNOR

**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

LAJUANA S. WILCHER
SECRETARY

September 14, 2004

Mr. Gregory Black
Western KY Energy Corp - Wilson Station
Post Office Box 24
Henderson, Kentucky 42420

Re: Complete KPDES Application
KPDES No.: KY0054836
Western KY Energy Corp - Wilson Station
AI ID: 3319
Activity ID: APE20040004
Ohio County, Kentucky

Dear Mr. Black:

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on July 16, 2004, and has been determined complete. As per 401 KAR 5:075, Section 1(7), the official effective date of your application has been determined as September 14, 2004, the date of this notice.

A technical review of your permit application will commence in the near future. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. A request for this additional information will not render your application incomplete.

If you have any questions concerning this matter, please contact Nancy Green of the Inventory and Data Management Section, KPDES Branch, of the Division of Water, at (502) 564-2225, extension 402.

Sincerely,

Abigail Rains

**Abigail L. Rains**
Environmental Technologist III
KPDES Branch
Division of Water

SLG:NG:alr

c: Division of Water Files

ERNIE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

LAJUANA S. WILCHER
SECRETARY

June 23, 2004

Mr. Gregory Black
Western Kentucky Energy Corporative Wilson
Post Office Box 24
Henderson, Kentucky 42419-1518

Re: KPDES No.: KY0054836
Western Kentucky Energy Corporative Wilson
Ohio County, Kentucky

Dear Mr. Black:

Our records indicate that your Kentucky Pollutant Discharge Elimination System (KPDES) permit is due to expire on October 31, 2004. In order to renew the facility's KPDES permit, it will be necessary for you to complete and submit the enclosed application forms.

Please complete the enclosed application forms and return to the KPDES Branch, Division of Water, at the above address by July 15, 2004. Applications received after the due date could result in enforcement action being taken.

If you have any questions regarding the completion of these forms, please contact me at (502) 564-2225, extension 465.

Sincerely,

Courtney Seitz

**Courtney Seitz, Supervisor**
Inventory and Data Management Section
KPDES Branch
Division of Water

CS:TJB:tjb
Enclosures
c: Bowling Green Regional Office
Division of Water Files

CERTIFIED # 7002 2030 0004 6563 1896

Western Kentucky Energy Corp.
145 N. Main Street
P.O. Box 1518
Henderson, KY 42419-1518
270-844-6000
270-844-6048 FAX

September 13, 2004

Courtney Seitz
Inventory and Data Management Section
KPDES Branch
Division of Water
Frankfort Office Park
14 Reilly Rd.
Frankfort KY 40601

Re: Renewal Information
KPDES No: KY0054836
D.B. Wilson Station
Ohio County

Dear Mr. Seitz

Please find enclosed the completed Section V Parts A and B for the previously submitted renewal application and fee for Western Kentucky Energy's D.B. Wilson power plant. If you have any questions please feel free to call me at 270-844-6031 or e-mail to tom.shaw@lgeenergy.com.

Sincerely,

Thomas L Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | <2.00 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 27.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 12.7 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 19.2 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | 0.180 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 13.68 | | VALUE | | VALUE | | 13 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE ~~ff~~ 21.7 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| h. Temperature (summer) | VALUE ~~ff~~ 32.8 | | VALUE | | VALUE | | 1 | °C | | VALUE | | |
| i. pH | MINIMUM 8.11 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 83.0 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 1.62 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | 20.0 | | | | | | 1 | Color units | | | | |
| f. Fecal Coliform | X | | 14 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 0.910 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 1020 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | 7.53 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 8.98 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | 0.328 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 835. | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.645 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.223 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 1.17 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.561 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 62.6 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.128 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

**Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe is absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | < 0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | 0.0220 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | < 0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | 0.0110 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | <0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | 0.0052 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chlor-oisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 002

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 7.02 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 27.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 9.73 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 5.20 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | <0.100 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 0.95 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 7.51 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 166. | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 0.146 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | ND | | | | | | 1 | Color Units | | | | |
| f. Fecal Coliform | X | | 480 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 2.26 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 1660 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 3.17 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.10 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | 0.139 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 1780 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.292 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.0650 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 7.69 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.358 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 27.5 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | 1.61 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.290 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfall, or certain non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe is absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-term Avg. Value (1) Concentration | INTAKE (optional) a. Long-term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | 0.377 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | 0.0010 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | 0.0250 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | < 0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chloro-phenol (95-57-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlor-Orophenol (120-83-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimeth-ylphenol (105-67-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitro-phenol (51-28-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitro-phenol (88-75-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitro-phenol (100-02-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachloro-phenol (87-88-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Tri-chlorophenol (88-06-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acena-phthene (83-32-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzofluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — OUTFALL NO.

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 4.04 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 21.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 7.49 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 17.4 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | < 0.100 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 2.16 | | VALUE | | VALUE | | 3 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 6.73 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe is absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 20.5 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | 9.00 | | | | | | 1 | Color unit | | | | |
| f. Fecal Coliform | X | | <2 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 0.730 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 286 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 0.780 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 186. | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.222 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.0640 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 0.431 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.375 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 20.9 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.232 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

**Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe is absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analytes | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | < 0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If Available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — OUTFALL NO. 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 4.31 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 32.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 12.9 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 9.20 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | 0.220 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 1.6 | | VALUE | | VALUE | | 1 | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM 7.05 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 77.5 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 1.62 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | 20.0 | | | | | | 1 | Color units | | | | |
| f. Fecal Coliform | X | | 16 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 1.27 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 853. | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | 1.46 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 4.48 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | 0.136 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 788. | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.293 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.163 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 4.53 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.281 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 62.8 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.177 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe is absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are several pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | 0.0360 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | 0.0020 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | 0.0013 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | 0.040 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | 0.164 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | 0.122 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If Available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If Available) | 2. MARK 'X' a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS Concentration | Mass | 5. INTAKE (optional) a. Long Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C - Continued

| 1. POLLUTANT And CAS No. (If Available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30 Day Value (if available) (1) Concentration | (2) Mass | c. Long Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (if available) (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (if available) (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | <2.00 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 30.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 13.3 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 21.2 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | <0.100 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 1.44 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °C | | VALUE | | |
| i. pH | MINIMUM 8.24 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 85.0 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 0.0360 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | ND | | | | | | 1 | color units | | | | |
| f. Fecal Coliform | X | | 740 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 1.14 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 1240 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | 8.53 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 9.72 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | 0.427 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 970. | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | 0.0871 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.692 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.282 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 1.34 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.677 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 74.0 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.139 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

**Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe is absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | 0.0230 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | 0.0110 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | <0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | 0.0078 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzofluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK 'X' a. Testing Required | 2. MARK 'X' b. Believed Present | 2. MARK 'X' c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indeno-(1,2,3-cd)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | INTAKE (optional) a. Long-Term Avg. Value (2) Mass | INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instruetions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 007

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 34.6 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 27.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 7.78 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 18.4 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | 4.10 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE 0.004 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 7.67 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 59.0 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 0.0220 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | 20.0 | | | | | | 1 | color units | | | | |
| f. Fecal Coliform | X | | 8400 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 0.800 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 411. | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | 10.0 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 14.7 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | 0.381 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 207 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | 0.110 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.209 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.0410 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 2.29 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.765 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 38.6 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.296 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

**Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | 0.0170 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | 0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Diehloropro-pylene (452-75-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | 0.0014 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichloro-benzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | X | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | X | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | X | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | X | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | X | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | X | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | X | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | X | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | X | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | X | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | X | | | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 008

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | <2.00 | | | | | | | 1 | mg/l | | | |
| b. Chemical Oxygen Demand (COD) | 5.00 | | | | | | | 1 | mg/l | | | |
| c. Total Organic Carbon (TOC) | 3.18 | | | | | | | 1 | mg/l | | | |
| d. Total Suspended Solids (TSS) | 14.8 | | | | | | | 1 | mg/l | | | |
| e. Ammonia (as N) | <0.100 | | | | | | | 1 | mg/l | | | |
| f. Flow (in units of MGD) | VALUE 13.68 | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE 14.4 | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE 32.8 | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 7.68 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 13.1 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 0.0340 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | ND | | | | | | 1 | color units | | | | |
| f. Fecal Coliform | X | | <2 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 0.230 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 137 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | 0.960 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 1.22 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 31.7 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | 10.4 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.393 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.0400 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 0.0800 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.540 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 8.30 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.0890 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

**Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | < 0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | < 0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | < 0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | <0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | 0.0010 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthraceene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghl) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chlor-oisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO. 009**

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 3. UNITS (specify if blank) a. Concentration | b. Mass | 4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Biochemical Oxygen Demand (BOD) | 3.94 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 32.0 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 11.9 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 8.40 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | <0.100 | | | | | | 1 | mg/l | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM 8.35 | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 9.86 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | 0.708 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | 19.0 | | | | | | 1 | Color units | | | | |
| f. Fecal Coliform | X | | <2 | | | | | | 1 | CFU/100ml | | | | |
| g. Fluoride (16984-48-8) | X | | 0.870 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 1860 | | | | | | 1 | mg/l | | | | |
| i. Nitrate – Nitrite (as N) | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | X | | 1.20 | | | | | | 1 | mg/l | | | | |
| k. Oil and Grease | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | <0.100 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 1770 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.00 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5.00 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.102 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.0340 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | 0.998 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.0200 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.224 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 39.6 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.0560 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.0500 | | | | | | 1 | mg/l | | | | |

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X" in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | <0.05 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2V. Acrylonitrile (107-13-1) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3V. Benzene (71-43-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5V. Bromoform (75-25-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 7V. Chloro-benzene (108-90-7) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11V. Chloroform (67-66-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 19V. Ethyl-benzene (100-41-4) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 20V. Methyl Bromide (74-83-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (If available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (If available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 22V. Methylene Chloride (75-00-2) | X | | | <0.0025 | | | | | | 1 | mg/l | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 25V. Toluene (108-88-3) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 29V. Trichloro-ethylene (79-01-6) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |
| 30V. Vinyl Chloride (75-01-4) | X | | | < 0.001 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 6A. 2-Nitrophenol (88-75-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7A. 4-Nitrophenol (100-02-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 9A. Pentachlorophenol (87-88-5) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10A. Phenol (108-05-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 3B. Anthracene (120-12-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 4B. Benzidine (92-87-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 8B. Benzo(ghi) perylene (191-24-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 11B. Bis (2-chlor-oisopropyl)-Ether | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 17B. Chrysene (218-01-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 23B. Diethyl Phthalate (84-66-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 30B. Fluoranthene (208-44-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 31B. Fluorene (86-73-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 32B. Hexachloro-benzene (118-71-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 37B. Isophorone (78-59-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 38B. Napthalene (91-20-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 39B. Nitrobenzene (98-95-3) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 43B. Phenanthrene (85-01-8) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 44B. Pyrene (129-00-0) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | X | | | < 0.01 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

Resubmitted with renewal 10/12/04

~~CERTIFIED # 7002 2030 0004 6563 2473~~

July 8, 2003

Mr. Larry Sowder
Department for Environmental Protection
Division of Water
Frankfort Office Park
14 Reilly Road
Frankfort, KY 40601

RE: Modification to KPDES # KY0054836
D.B. Wilson Station, Ohio County
Western Kentucky Energy

Dear Mr. Sowder:

Western Kentucky Energy (WKE) is requesting a modification to the existing KPDES permit # KY0054836 for the D.B. Wilson Station. The modification is for the addition of four process water treatment basins. The basins are located along the fuel conveyor, which runs from the Green River to the fuel pile. The basins collect the storm water from the base of the conveyor and treat it by primary settling. Accompanying the letter is a set of drawings showing the location and size of the basins and a permit application consisting of a completed Forms 1 and C.

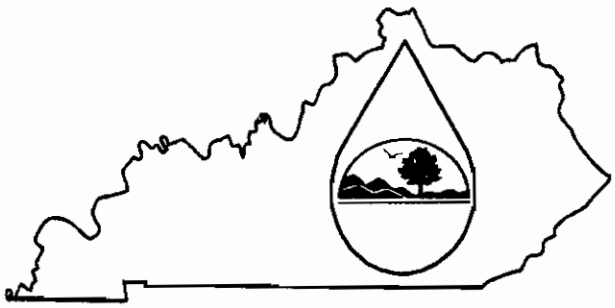
If you have any additional questions concerning this request please feel free to contact me at 270-844-6031 or by e-mail at tom.shaw@lgeenergy.com.

Sincerely,

Thomas L. Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

# KPDES FORM 1



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☐ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☒ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

| I. FACILITY LOCATION AND CONTACT INFORMATION | AGENCY USE |
|---|---|
| A. Name of business, municipality, company, etc. requesting permit<br>Western Kentucky Energy | |
| B. Facility Name and Location | C. Facility Owner/Mailing Address |
| Facility Location Name:<br>D.B. Wilson Station | Owner Name:<br>Big Rivers Electric Corp |
| Facility Location Address (i.e. street, road, etc.):<br>5663 State Route Hwy 85 West | Mailing Street:<br>201 Third Street P.O. Box 24 |
| Facility Location City, State, Zip Code:<br>Centertown, KY, 42328 | Mailing City, State, Zip Code:<br>Henderson, KY, 42420 |
| | Telephone Number:<br>270-844-6031 |

**II. FACILITY DESCRIPTION**

A. Provide a brief description of activities, products, etc: Steam electric generation. Addition of new discharge points along fuel conveyor system

B. Standard Industrial Classification (SIC) Code and Description

| | | | |
|---|---|---|---|
| Principal SIC Code & Description: | 4911 Coal-fired steam electric | | |
| Other SIC Codes: | | | |

**III. FACILITY LOCATION**

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| | |
|---|---|
| B. County where facility is located:<br>Ohio | City where facility is located (if applicable):<br>Between Island and Centertown |
| C. Body of water receiving discharge:<br>Green River | |
| D. Facility Site Latitude (degrees, minutes, seconds):<br>N37-27-15 | Facility Site Longitude (degrees, minutes, seconds):<br>W87-06-06 |
| E. Method used to obtain latitude & longitude (see instructions): | Topo |
| F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): | 031072619 |

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:

☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Feb 2001 | Oct 2004 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: | Sludge Disposal Permit Number: |
| | June 1980 | |
| Kentucky DOW Operational Permit #: | Kentucky DSMRE Permit Number(s): | |

C. Whieh of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | 0-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Gregory Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson, KY, 42419-1518 |
| DMR Official Telephone Number: | 270-844-6022 |

## VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

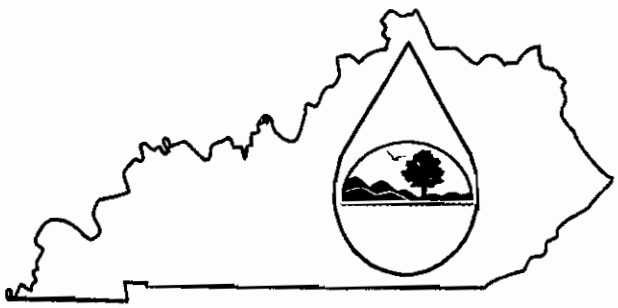
| Facility Fee Category: | Filing Fee Enclosed: |
|---|---|
| | |

## VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| GREGORY BLACK | 270/844-6022 |
| SIGNATURE: MANAGER-ENV & TECH SERVICES | DATE: |
| Gregory Black | 06/17/2003 |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

| Name of Facility: D.B. Wilson Station | County: Ohio |
|---|---|
| **I. OUTFALL LOCATION** | AGENCY USE |

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 010 | N37 | 27 | 11 | W87 | 05 | 27 | Green River |
| 011 | N37 | 27 | 14 | W87 | 05 | 5 | Green River |
| 012 | N37 | 27 | 13 | W87 | 06 | 30 | Green River |
| 013 | N37 | 27 | 39 | W87 | 06 | 14 | Green River |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 010 | Storm water runoff from solid fuel conveyor | 0.22 MGD | Settlement | 1-U,1-R |
| 011 | Storm water runoff from solid fuel conveyor | 0.26 MGD | Settlement | 1-U, 1-R |
| 012 | Storm water runoff from solid fuel conveyor | 0.25 MGD | Settlement | 1-U, 1-R |
| 013 | Storm water runoff from solid fuel conveyor | 0.64 | Settlement | 1-U, 1-R |
| | | | | |

| | | | | |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | Duration (in days) |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls (list outfall numbers) |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

**B.** OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substanee or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☐ Yes (List all such pollutants below) ☒ No (Go to Item VI-B)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

001 Acute Toxicity

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

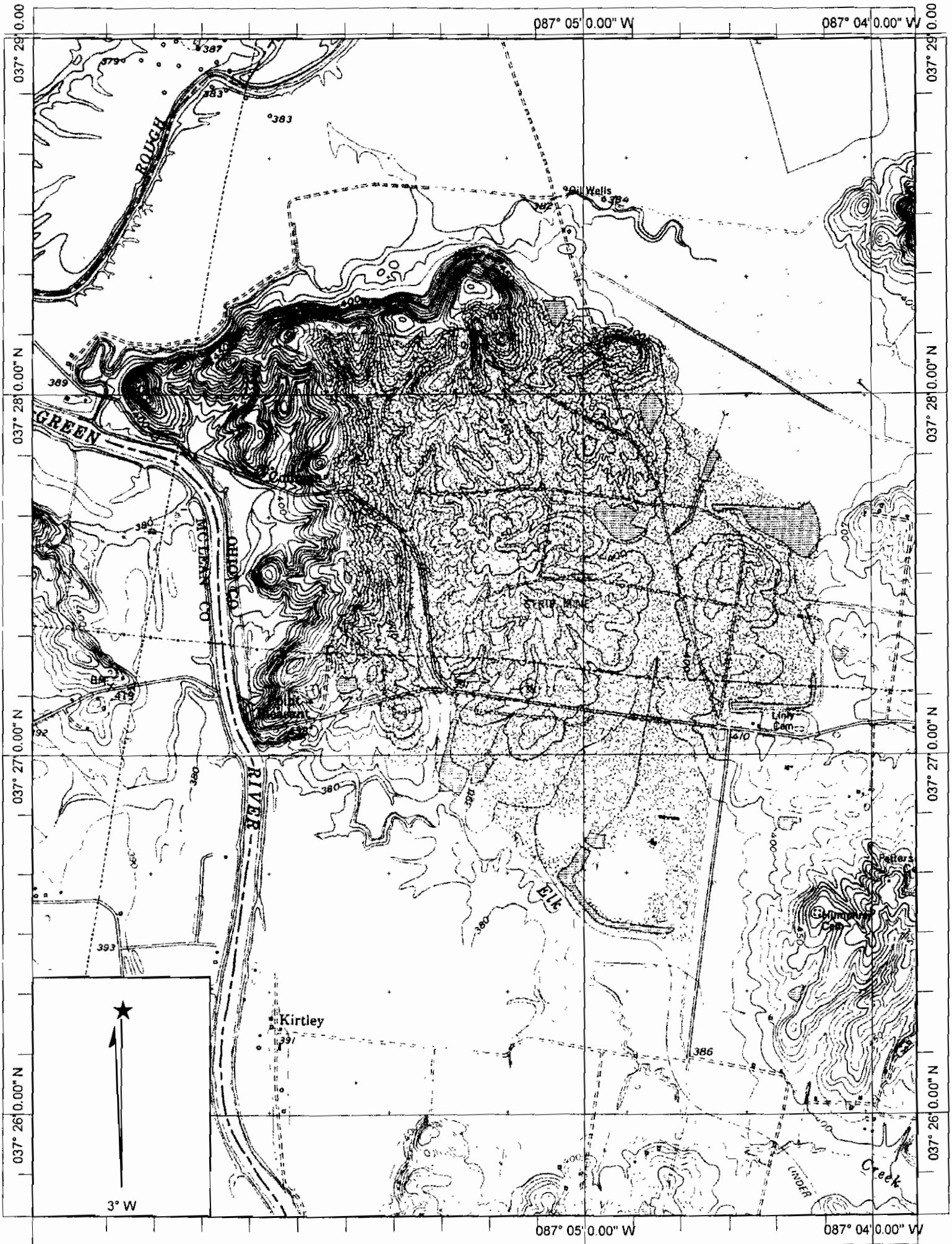
☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| Test America | 2960 Foster Creighton Drive Nashville, TN | 800-765-0980 | All |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| GREGORY BLACK | 270/844-6022 |
| SIGNATURE: MGR-ENV TECH SR. | DATE: 06/17/2013 |



**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

New

| V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C) | OUTFALL NO. 010 |
|---|---|

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | <2 | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | 3.90 | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | 2.02 | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | 12.2 | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °c | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °c | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | 6. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | | X | <1 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 2.87 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | | X | <0.02 | | | | | | 1 | mg/l | | | | |
| e. Color | | | ND | | | | | | 1 | | | | | |
| f. Fecal Coliform | | X | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | X | | 0.58 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 96.4 | | | | | | 1 | mg/l | | | | |
| i. Nitrate - Nitrite (as N) | X | | 0.2 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | | X | | | | | | | | | | | | |
| k. Oil and Grease | X | | <5.43 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | <0.1 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 49.2 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1.0 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | | X | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.364 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.024 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.02 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.242 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 8.42 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | <0.015 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.05 | | | | | | 1 | mg/l | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M Lead Total (7439-92-1) | X | | | <0.003 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C -- Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.002 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | <0.02 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION -- VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 9V. Chloroethane (74-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-ehloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |

| Part C – Continued | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | X | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | X | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | X | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | X | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | X | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo(ghl) perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | | | X | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | X | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | X | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | X | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | X | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | X | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | X | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | X | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | X | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | X | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 36B. Indeno-(1,2,3-oc)-Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | X | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

NEW

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 011

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | d. No. of Analyses | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | 2.25 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 8.20 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 27.4 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 8.80 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | | MGD | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | | °c | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | | °c | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | | STANDARD UNITS | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | 6. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | <1.0 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | | 10.1 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | <0.02 | | | | | | 1 | mg/l | | | | |
| e. Color | X | | ND | | | | | | 1 | | | | | |
| f. Fecal Coliform | | X | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | X | | 0.470 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 173 | | | | | | 1 | mg/l | | | | |
| i. Nitrate - Nitrite (as N) | X | | 1.23 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | | X | | | | | | | | | | | | |
| k. Oil and Grease | X | | <5.68 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | <0.1 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

**Part B - Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 107 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | < 1 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_3$) (14286-46-3) | X | | < 5.0 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | | X | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.168 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.03 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | < 0.05 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | < 0.02 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.12 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 13.3 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | < 0.05 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.019 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | < 0.05 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | < 0.05 | | | | | | 1 | mg/l | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.003 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | < 0.002 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | < | | | | | | | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 9V. Chloroethane (74-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | X | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Coucentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzofluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo(ghl)perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | | | X | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | X | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | X | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | X | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | X | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | X | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | X | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | X | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | X | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | X | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | X | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value (1) Concentration | a. Long-Term Avg. Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

NEW

**V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)** — **OUTFALL NO.** 013

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

| 1. POLLUTANT | 2. EFFLUENT | | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | <2 | | | | | | 1 | mg/l | | | | |
| b. Chemical Oxygen Demand (COD) | 14.6 | | | | | | 1 | mg/l | | | | |
| c. Total Organic Carbon (TOC) | 2.96 | | | | | | 1 | mg/l | | | | |
| d. Total Suspended Solids (TSS) | 102 | | | | | | 1 | mg/l | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 6. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | 6. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| a. Bromide (24959-67-9) | X | | < 1.0 | | | | | | 1 | mg/l | | | | |
| b. Bromine Total Residual | | X | | | | | | | | | | | | |
| c. Chloride | X | - | 3.30 | | | | | | 1 | mg/l | | | | |
| d. Chlorine, Total Residual | X | | < 0.02 | | | | | | | | | | | |
| e. Color | | | ND | | | | | | | | | | | |
| f. Fecal Coliform | | X | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | X | | 0.33 | | | | | | 1 | mg/l | | | | |
| h. Hardness (as $CaCO_3$) | X | | 129 | | | | | | 1 | mg/l | | | | |
| i. Nitrate - Nitrite (as N) | X | | < 0.1 | | | | | | 1 | mg/l | | | | |
| j. Nitrogen, Total Organic (as N) | | X | | | | | | | | | | | | |
| k. Oil and Grease | X | | < 5.68 | | | | | | 1 | mg/l | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | X | | < 0.1 | | | | | | 1 | mg/l | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | X | | | | | | | | | | | | |
| (2) Beta, Total | | X | | | | | | | | | | | | |
| (3) Radium Total | | X | | | | | | | | | | | | |
| (4) Radium, 226, Total | | X | | | | | | | | | | | | |

**Part B - Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | X | | 55 | | | | | | 1 | mg/l | | | | |
| o. Sulfide (as S) | X | | <1 | | | | | | 1 | mg/l | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | X | | <5 | | | | | | 1 | mg/l | | | | |
| q. Surfactants | | X | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | X | | 0.506 | | | | | | 1 | mg/l | | | | |
| s. Barium, Total (7440-39-3) | X | | 0.035 | | | | | | 1 | mg/l | | | | |
| t. Boron, Total (7440-42-8) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| u. Cobalt, Total (7440-48-4) | X | | <0.02 | | | | | | 1 | mg/l | | | | |
| v. Iron, Total (7439-89-6) | X | | 0.792 | | | | | | 1 | mg/l | | | | |
| w. Magnesium Total (7439-96-4) | X | | 8.07 | | | | | | 1 | mg/l | | | | |
| x. Molybdenum Total (7439-98-7) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| y. Manganese, Total (7439-96-6) | X | | 0.055 | | | | | | 1 | mg/l | | | | |
| z. Tin, Total (7440-31-5) | X | | <0.05 | | | | | | 1 | mg/l | | | | |
| aa. Titanium, Total (7440-32-6) | X | | <0.05 | | | | | | 1 | mg/l | | | | |

**Part C** – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 2M. Arsenic, Total (7440-38-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 3M. Beryllium Total (7440-41-7) | X | | | <0.004 | | | | | | 1 | mg/l | | | | |
| 4M. Cadmium Total (7440-43-9) | X | | | <0.001 | | | | | | 1 | mg/l | | | | |
| 5M. Chromium Total (7440-43-9) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 6M. Copper Total (7550-50-8) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 7M. Lead Total (7439-92-1) | X | | | <0.003 | | | | | | 1 | mg/l | | | | |
| 8M. Mercury Total (7439-97-6) | X | | | <0.0002 | | | | | | 1 | mg/l | | | | |
| 9M. Nickel, Total (7440-02-0) | X | | | <0.01 | | | | | | 1 | mg/l | | | | |
| 10M. Selenium, Total (7782-49-2) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |
| 11M. Silver, Total (7440-28-0) | X | | | <0.005 | | | | | | 1 | mg/l | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | X | | | <0.002 | | | | | | 1 | mg/l | | | | |
| 13M. Zinc, Total (7440-66-6) | X | | | 0.029 | | | | | | 1 | mg/l | | | | |
| 14M. Cyanide, Total (57-12-5) | | | X | | | | | | | | | | | | |
| 15M. Phenols, Total | | | X | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | X | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | X | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | X | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | X | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | X | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | X | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | X | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| 9V. Chloroethane (74-00-3) | | | X | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | X | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | X | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | X | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | X | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | X | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | X | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | X | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | X | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | X | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No. of Analyses |
| | | | | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| 21V. Methyl Chloride (74-87-3) | | | X | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | X | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetraehloro-ethane (79-34-5) | | | X | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | X | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | X | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | X | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | X | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | X | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | X | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chloro-phenol (95-57-8) | | | X | | | | | | | | | | | | |
| 2A. 2,4-Dichlor-Orophenol (120-83-2) | | | X | | | | | | | | | | | | |
| 3A. 2,4-Dimeth-ylphenol (105-67-9) | | | X | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | X | | | | | | | | | | | | |
| 5A. 2,4-Dinitro-phenol (51-28-5) | | | X | | | | | | | | | | | | |
| 6A. 2-Nitro-phenol (88-75-5) | | | X | | | | | | | | | | | | |
| 7A. 4-Nitro-phenol (100-02-7) | | | X | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | X | | | | | | | | | | | | |
| 9A. Pentachloro-phenol (87-88-5) | | | X | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | X | | | | | | | | | | | | |
| 11A. 2,4,6-Tri-chlorophenol (88-06-2) | | | X | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acena-phthene (83-32-9) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | X | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | X | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | X | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | X | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | X | | | | | | | | | | | | |
| 7B. 3,4-Benzo-fluoranthene (205-99-2) | | | X | | | | | | | | | | | | |
| 8B. Benzo(ghl) perylene (191-24-2) | | | X | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | X | | | | | | | | | | | | |
| 10B. Bis(2-chlor-oethoxy)-methane (111-91-1) | | | X | | | | | | | | | | | | |
| 11B. Bis (2-chlor-oisopropyl)-Ether | | | X | | | | | | | | | | | | |
| 12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | X | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | X | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | X | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | X | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | X | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | X | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | X | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | X | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | X | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | X | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued) | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | X | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | X | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | X | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | X | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | X | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | X | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | X | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | X | | | | | | | | | | | | |
| 32B. Hexaehloro-benzene (118-71-1) | | | X | | | | | | | | | | | | |
| 33B Hexachloro-butadiene (87-68-3) | | | X | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | X | | | | | | | | | | | | |

**Part C – Continued**

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | d. No. of Analyses | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | X | | | | | | | | | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | | | X | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | X | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | X | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | X | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | X | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | X | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | X | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | X | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | X | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | X | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | X | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | X | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | X | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | X | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | X | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | X | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | X | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | X | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | X | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | X | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | X | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" | | | 3. EFFLUENT | | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Testing Required | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| GC/MS FRACTION – PESTICIDES | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | X | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | X | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | X | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | X | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | X | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | X | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | X | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | X | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | X | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | X | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | X | | | | | | | | | | | | |

PROJECT

# WESTERN KENTUCKY ENERGY

# D. B. WILSON PLANT

## STORM WATER BASINS-DRAINAGE AREAS

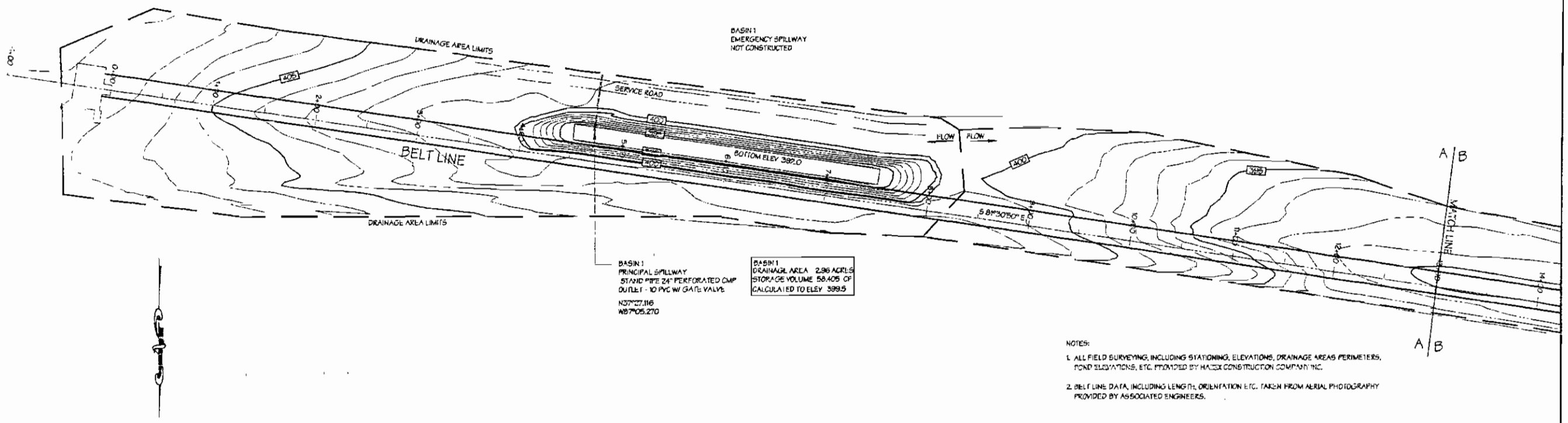
FOR

# HAZEX CONSTRUCTION COMPANY INC.

PREPARED BY:

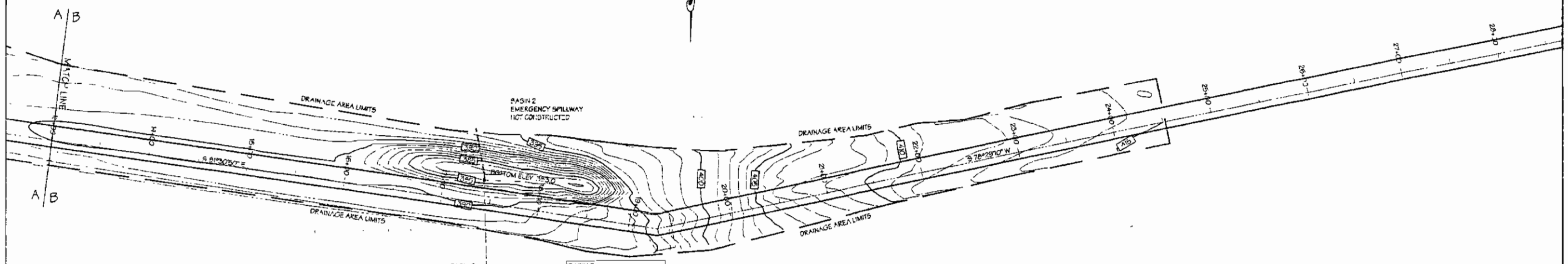
RONALD JOHNSON & ASSOCIATES, P.S.C.
CONSULTING ENGINEERING • LAND SURVEYING
ENVIRONMENTAL CONSULTING • LANDSCAPE ARCHITECTURE
24 WEST CENTER STREET MADISONVILLE, KENTUCKY 42431
PHONE (270) 821-6392 FAX (270) 821-6619 www.rjaengineering.com

LIST OF DRAWING




NOTES:

1. ALL FIELD SURVEYING, INCLUDING STATIONING, ELEVATIONS, DRAINAGE AREAS PERIMETERS, POND ELEVATIONS, ETC. PROVIDED BY HAZEX CONSTRUCTION COMPANY INC.
2. BELT LINE DATA, INCLUDING LENGTH, ORIENTATION ETC. TAKEN FROM AERIAL PHOTOGRAPHY PROVIDED BY ASSOCIATED ENGINEERS.




NOTES:

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50 0 50

SCALE 1" = 50'

RONALD JOHNSON & ASSOCIATES, P.S.C.
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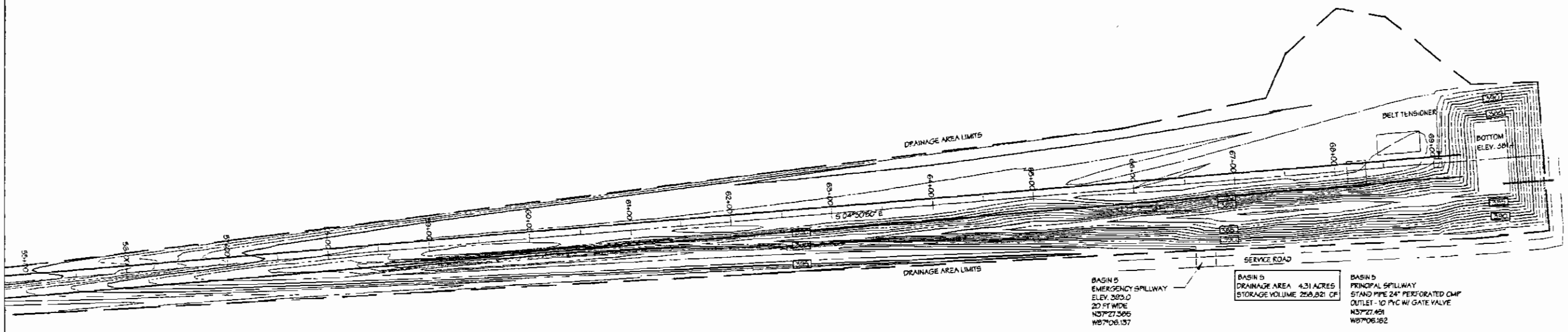
ENVIRONMENTAL CONSULTING • LANDSCAPE ARCHITECTURE
24 W. LSI CUNTER STREET
MADISONVILLE, KENTUCKY 42431
PHONE (270) 821-6592 FAX (270) 821-6616 www.rjengineering.com

WESTERN KENTUCKY ENERGY
D. B. WILSON PLANT
STORM WATER BASINS-DRAINAGE AREAS
FOR:
HAZEX CONSTRUCTION COMPANY INC.

REVISIONS:

| DRAWN BY: | APPROVED BY: |
|---|---|
| DEW | |
| DATE: | PROJECT NO: |
| 02/3/03 | 02-125 |

SHEET NO.
S-1




NOTES:

1. ALL FIELD SURVEYING, INCLUDING STATIONING, ELEVATIONS, DRAINAGE AREAS PERIMETERS, POND ELEVATIONS, ETC. PROVIDED BY HAZEX CONSTRUCTION COMPANY INC.
2. BELT LINE DATA, INCLUDING LENGTH, ORIENTATION ETC TAKEN FROM AERIAL PHOTOGRAPHY PROVIDED BY ASSOCIATED ENGINEERS

50 0 50

SCALE 1" = 50'

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ENVIRONMENTAL CONSULTING • LANDSCAPE ARCHITECTURE
24 WEST CUTLER STREET • LADISON, TENNESSEE 37354
PHONE (270) 821-6302 • FAX (270) 821-9619
www.rjengineering.com

WESTERN KENTUCKY ENERGY
D. B. WILSON PLANT
STORM WATER BASINS-DRAINAGE AREAS
FOR
HAZEX CONSTRUCTION COMPANY INC.

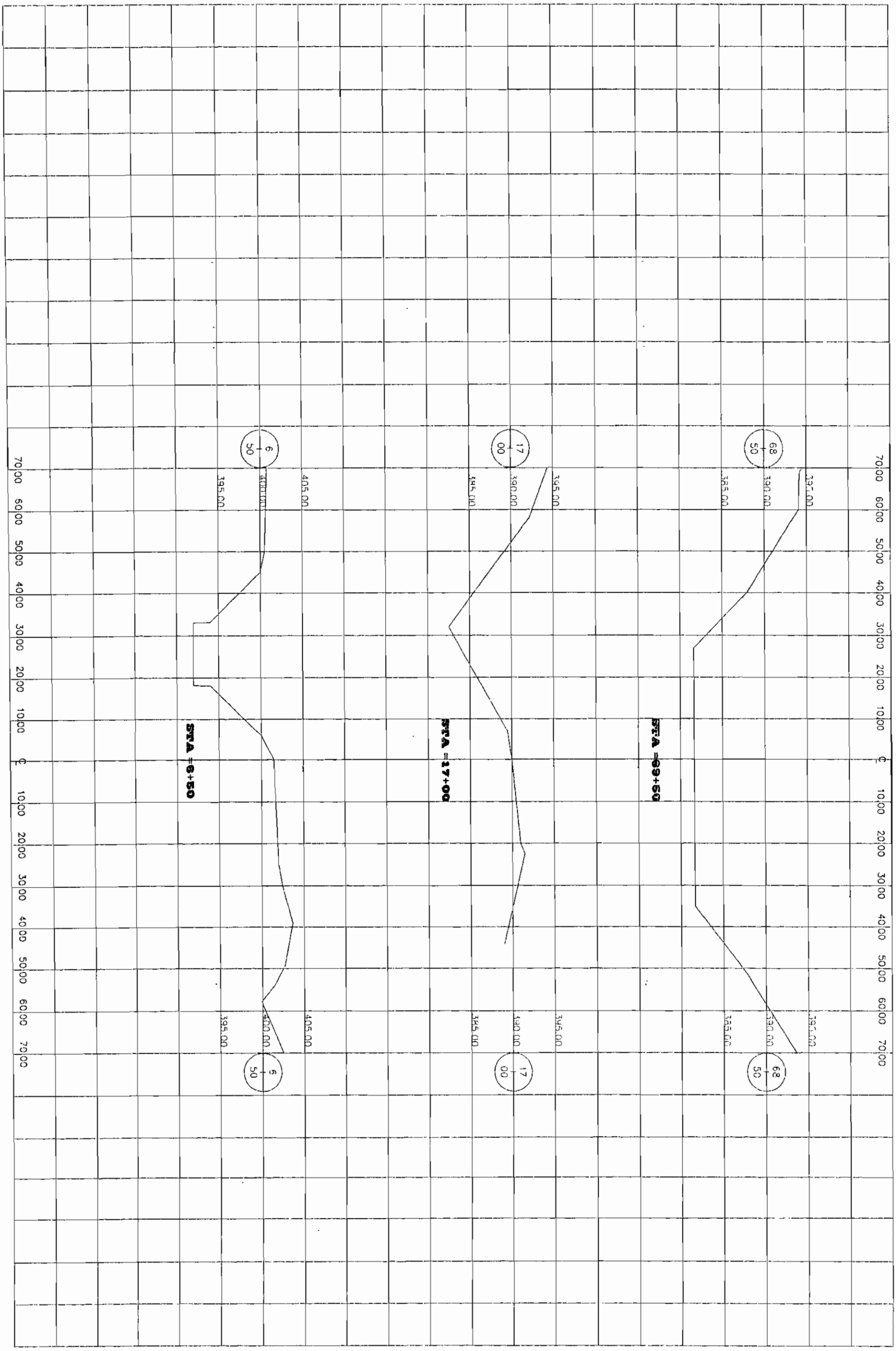
REVISIONS:

| DRAWN BY: | APPROVED BY: |
|---|---|
| DEW | |
| DATE: | PROJECT NO: |
| 02/03/03 | 02-125 |

SHEET NO.
S-2

FILE NAME

FILE NAME




S-3

SHEET NO

| DRAWN BY | CHECKED BY |
|---|---|
| DATE: 02/03/03 | PROJECT NO: 02-125 |

REVISIONS:

WESTERN KENTUCKY ENERGY
D. B. WILSON PLANT
STORM WATER BASINS-DRAINAGE AREAS
FOR
HAZEX CONSTRUCTION COMPANY INC.

2003

RONALD JOHNSON & ASSOCIATES, P.S.C.
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24 WEST CENTER STREET MADISONVILLE, KENTUCKY 42431
PHONE (270) 821-6392 FAX (270) 821-6619 www.rjengineering.com

ERNIE FLETCHER
GOVERNOR

**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

LAJUANA S. WILCHER
SECRETARY

September 14, 2004

Mr. Gregory Black
Western KY Energy Corp - Wilson Station
Post Office Box 24
Henderson, Kentucky 42420

Re: Complete KPDES Application
KPDES No.: KY0054836
Western KY Energy Corp - Wilson Station
AI ID: 3319
Activity ID: APE20040004
Ohio County, Kentucky

Dear Mr. Black:

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on July 16, 2004, and has been determined complete. As per 401 KAR 5:075, Section 1(7), the official effective date of your application has been determined as September 14, 2004, the date of this notice.

A technical review of your permit application will commence in the near future. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. A request for this additional information will not render your application incomplete.

If you have any questions concerning this matter, please contact Nancy Green of the Inventory and Data Management Section, KPDES Branch, of the Division of Water, at (502) 564-2225, extension 402.

Sincerely,

Abigail Rains

**Abigail L. Rains**
Environmental Technologist III
KPDES Branch
Division of Water

SLG:NG:alr

c: Division of Water Files

July 8, 2003

Mr. Larry Sowder
Department for Environmental Protection
Division of Water
Frankfort Office Park
14 Reilly Road
Frankfort, KY 40601

RE: Modification to KPDES # KY0054836
D.B. Wilson Station, Ohio County
Western Kentucky Energy

Dear Mr. Sowder:

Western Kentucky Energy (WKE) is requesting a modification to the existing KPDES permit # KY0054836 for the D.B. Wilson Station. The modification is for the addition of four process water treatment basins. The basins are located along the fuel conveyor, which runs from the Green River to the fuel pile. The basins collect the storm water from the base of the conveyor and treat it by primary settling. Accompanying the letter is a set of drawings showing the location and size of the basins and a permit application consisting of a completed Forms 1 and C.

If you have any additional questions concerning this request please feel free to contact me at 270-844-6031 or by e-mail at tom.shaw@lgeenergy.com.

Sincerely,

Thomas L. Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

CERTIFIED # 7002 2030 0004 6563 2473

July 8, 2003

Mr. Larry Sowder
Department for Environmental Protection
Division of Water
Frankfort Office Park
14 Reilly Road
Frankfort, KY 40601

RE: Modification to KPDES # KY0054836
D.B. Wilson Station, Ohio County
Western Kentucky Energy

Dear Mr. Sowder:

Western Kentucky Energy (WKE) is requesting a modification to the existing KPDES permit # KY0054836 for the D.B. Wilson Station. The modification is for the addition of four process water treatment basins. The basins are located along the fuel conveyor, which runs from the Green River to the fuel pile. The basins collect the storm water from the base of the conveyor and treat it by primary settling. Accompanying the letter is a set of drawings showing the location and size of the basins and a permit application consisting of a completed Forms 1 and C.

If you have any additional questions concerning this request please feel free to contact me at 270-844-6031 or by e-mail at tom.shaw@wkenergy.com.

Sincerely,

Thomas L. Shaw

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax



*INVOICE*

Client Name:

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Invoice No.: 1388365

Invoice Date: 9/16/04

Terms: Net 30 Days

Project: COLEMAN KPDES
Project Num:
Project Mgr: M.GAILBRAITH
PO Number: 330680

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137023 | 006PI | BOD | | 24.00 |
| 04-A137023 | 006PI | COD | | 20.00 |
| 04-A137023 | 006PI | TOC | | 20.00 |
| 04-A137023 | 006PI | TSS | | 8.00 |
| 04-A137023 | 006PI | Ammonia | | 16.00 |
| 04-A137023 | 006PI | Bromide | | 20.00 |
| 04-A137023 | 006PI | Chlorine | | 8.00 |
| 04-A137023 | 006PI | Chloride | | 12.00 |
| 04-A137023 | 006PI | Color | | 8.00 |
| 04-A137023 | 006PI | Fecal Coliform | | 40.00 |
| 04-A137023 | 006PI | Fluoride | | 16.00 |
| 04-A137023 | 006PI | Hardness | | 8.00 |
| 04-A137023 | 006PI | Nitrate/Ni | | 20.00 |
| 04-A137023 | 006PI | Total Nit | | 48.00 |
| 04-A137023 | 006PI | Hex Ext Co | | 32.00 |
| 04-A137023 | 006PI | Phosphorus | | 20.00 |
| 04-A137023 | 006PI | SO4 | | 24.00 |
| 04-A137023 | 006PI | Sulfide | | 16.00 |
| 04-A137023 | 006PI | Sulfite | | 16.00 |
| 04-A137023 | 006PI | MBAS | | 20.00 |
| 04-A137023 | 006PI | Barium | | 10.00 |
| 04-A137023 | 006PI | Boron | | 10.00 |
| 04-A137023 | 006PI | Cobalt | | 10.00 |
| 04-A137023 | 006PI | Iron | | 10.00 |
| 04-A137023 | 006PI | Molybdenum | | 10.00 |
| 04-A137023 | 006PI | Manganese | | 10.00 |
| 04-A137023 | 006PI | Tin | | 10.00 |

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Project Num:
Project Mgr: M.GAILBRAITH
PO Number: 330680

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137023 | 006PI | Titanium | | 10.00 |
| 04-A137023 | 006PI | VOA's | | 136.00 |
| 04-A137023 | 006PI | BNA's | | 212.00 |
| 04-A137023 | 006PI | Cyanide | | 22.00 |
| 04-A137023 | 006PI | PP Metals | | 135.00 |
| 04-A137023 | 006PI | Aluminum | | 10.00 |
| 04-A137024 | 002AP | BOD | | 24.00 |
| 04-A137024 | 002AP | COD | | 20.00 |
| 04-A137024 | 002AP | TOC | | 20.00 |
| 04-A137024 | 002AP | TSS | | 8.00 |
| 04-A137024 | 002AP | Ammonia | | 16.00 |
| 04-A137024 | 002AP | Bromide | | 20.00 |
| 04-A137024 | 002AP | Chlorine | | 8.00 |
| 04-A137024 | 002AP | Chloride | | 12.00 |
| 04-A137024 | 002AP | Color | | 8.00 |
| 04-A137024 | 002AP | Fluoride | | 16.00 |
| 04-A137024 | 002AP | Hardness | | 8.00 |
| 04-A137024 | 002AP | Nitrate/Ni | | 20.00 |
| 04-A137024 | 002AP | Total Nit | | 48.00 |
| 04-A137024 | 002AP | Hex Ext Co | | 32.00 |
| 04-A137024 | 002AP | Phosphorus | | 20.00 |
| 04-A137024 | 002AP | SO4 | | 24.00 |
| 04-A137024 | 002AP | Sulfide | | 16.00 |
| 04-A137024 | 002AP | Sulfite | | 16.00 |
| 04-A137024 | 002AP | MBAS | | 20.00 |
| 04-A137024 | 002AP | Barium | | 10.00 |

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Invoice Date: 9/16/04

Terms: Net 30 Days

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137024 | 002AP | Boron | | 10.00 |
| 04-A137024 | 002AP | Cobalt | | 10.00 |
| 04-A137024 | 002AP | Iron | | 10.00 |
| 04-A137024 | 002AP | Molybdenum | | 10.00 |
| 04-A137024 | 002AP | Manganese | | 10.00 |
| 04-A137024 | 002AP | Tin | | 10.00 |
| 04-A137024 | 002AP | Titanium | | 10.00 |
| 04-A137024 | 002AP | VOA's | | 136.00 |
| 04-A137024 | 002AP | BNA's | | 212.00 |
| 04-A137024 | 002AP | Cyanide | | 22.00 |
| 04-A137024 | 002AP | PP Metals | | 135.00 |
| 04-A137024 | 002AP | Aluminum | | 10.00 |
| 04-A137025 | 004SIO | BOD | | 24.00 |
| 04-A137025 | 004SIO | COD | | 20.00 |
| 04-A137025 | 004SIO | TOC | | 20.00 |
| 04-A137025 | 004SIO | TSS | | 8.00 |
| 04-A137025 | 004SIO | Ammonia | | 16.00 |
| 04-A137025 | 004SIO | Bromide | | 20.00 |
| 04-A137025 | 004SIO | Chlorine | | 8.00 |
| 04-A137025 | 004SIO | Chloride | | 12.00 |
| 04-A137025 | 004SIO | Color | | 8.00 |
| 04-A137025 | 004SIO | Fluoride | | 16.00 |
| 04-A137025 | 004SIO | Hardness | | 8.00 |
| 04-A137025 | 004SIO | Nitrate/Ni | | 20.00 |
| 04-A137025 | 004SIO | Total Nit | | 48.00 |
| 04-A137025 | 004SIO | Hex Ext Co | | 32.00 |

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PO Number: 330680

Invoice No.: 1388365

Invoice Date: 9/16/04

Terms: Net 30 Days

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137025 | 004SIO | Phosphorus | | 20.00 |
| 04-A137025 | 004SIO | SO4 | | 24.00 |
| 04-A137025 | 004SIO | Sulfide | | 16.00 |
| 04-A137025 | 004SIO | Sulfite | | 16.00 |
| 04-A137025 | 004SIO | MBAS | | 20.00 |
| 04-A137025 | 004SIO | Barium | | 10.00 |
| 04-A137025 | 004SIO | Boron | | 10.00 |
| 04-A137025 | 004SIO | Cobalt | | 10.00 |
| 04-A137025 | 004SIO | Iron | | 10.00 |
| 04-A137025 | 004SIO | Molybdenum | | 10.00 |
| 04-A137025 | 004SIO | Manganese | | 10.00 |
| 04-A137025 | 004SIO | Tin | | 10.00 |
| 04-A137025 | 004SIO | Titanium | | 10.00 |
| 04-A137025 | 004SIO | VOA's | | 136.00 |
| 04-A137025 | 004SIO | BNA's | | 212.00 |
| 04-A137025 | 004SIO | Cyanide | | 22.00 |
| 04-A137025 | 004SIO | PP Metals | | 135.00 |
| 04-A137025 | 004SIO | Aluminum | | 10.00 |
| 04-A137026 | 001OTC | BOD | | 24.00 |
| 04-A137026 | 001OTC | COD | | 20.00 |
| 04-A137026 | 001OTC | TOC | | 20.00 |
| 04-A137026 | 001OTC | TSS | | 8.00 |
| 04-A137026 | 001OTC | Ammonia | | 16.00 |
| 04-A137026 | 001OTC | Bromide | | 20.00 |
| 04-A137026 | 001OTC | Chlorine | | 8.00 |
| 04-A137026 | 001OTC | Chloride | | 12.00 |

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Project Num:
Project Mgr: M.GAILBRAITH
PO Number: 330680

Invoice No.: 1388365

Invoice Date: 9/16/04

Terms: Net 30 Days

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137026 | 001OTC | Color | | 8.00 |
| 04-A137026 | 001OTC | Fluoride | | 16.00 |
| 04-A137026 | 001OTC | Hardness | | 8.00 |
| 04-A137026 | 001OTC | Nitrate/Ni | | 20.00 |
| 04-A137026 | 001OTC | Total Nit | | 48.00 |
| 04-A137026 | 001OTC | Hex Ext Co | | 32.00 |
| 04-A137026 | 001OTC | Phosphorus | | 20.00 |
| 04-A137026 | 001OTC | SO4 | | 24.00 |
| 04-A137026 | 001OTC | Sulfide | | 16.00 |
| 04-A137026 | 001OTC | Sulfite | | 16.00 |
| 04-A137026 | 001OTC | MBAS | | 20.00 |
| 04-A137026 | 001OTC | Barium | | 10.00 |
| 04-A137026 | 001OTC | Boron | | 10.00 |
| 04-A137026 | 001OTC | Cobalt | | 10.00 |
| 04-A137026 | 001OTC | Iron | | 10.00 |
| 04-A137026 | 001OTC | Molybdenum | | 10.00 |
| 04-A137026 | 001OTC | Manganese | | 10.00 |
| 04-A137026 | 001OTC | Tin | | 10.00 |
| 04-A137026 | 001OTC | Titanium | | 10.00 |
| 04-A137026 | 001OTC | VOA's | | 136.00 |
| 04-A137026 | 001OTC | BNA's | | 212.00 |
| 04-A137026 | 001OTC | Cyanide | | 22.00 |
| 04-A137026 | 001OTC | PP Metals | | 135.00 |
| 04-A137026 | 001OTC | Aluminum | | 10.00 |
| 04-A137027 | 003CPR | BOD | | 24.00 |
| 04-A137027 | 003CPR | COD | | 20.00 |

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Project Num:
Project Mgr: M.GAILBRAITH
PO Number: 330680

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137027 | 003CPR | TOC | | 20.00 |
| 04-A137027 | 003CPR | TSS | | 8.00 |
| 04-A137027 | 003CPR | Ammonia | | 16.00 |
| 04-A137027 | 003CPR | Bromide | | 20.00 |
| 04-A137027 | 003CPR | Chlorine | | 8.00 |
| 04-A137027 | 003CPR | Chloride | | 12.00 |
| 04-A137027 | 003CPR | Color | | 8.00 |
| 04-A137027 | 003CPR | Fluoride | | 16.00 |
| 04-A137027 | 003CPR | Hardness | | 8.00 |
| 04-A137027 | 003CPR | Nitrate/Ni | | 20.00 |
| 04-A137027 | 003CPR | Total Nit | | 48.00 |
| 04-A137027 | 003CPR | Hex Ext Co | | 32.00 |
| 04-A137027 | 003CPR | Phosphorus | | 20.00 |
| 04-A137027 | 003CPR | SO4 | | 24.00 |
| 04-A137027 | 003CPR | Sulfide | | 16.00 |
| 04-A137027 | 003CPR | Sulfite | | 16.00 |
| 04-A137027 | 003CPR | MBAS | | 20.00 |
| 04-A137027 | 003CPR | Barium | | 10.00 |
| 04-A137027 | 003CPR | Boron | | 10.00 |
| 04-A137027 | 003CPR | Cobalt | | 10.00 |
| 04-A137027 | 003CPR | Iron | | 10.00 |
| 04-A137027 | 003CPR | Molybdenum | | 10.00 |
| 04-A137027 | 003CPR | Manganese | | 10.00 |
| 04-A137027 | 003CPR | Tin | | 10.00 |
| 04-A137027 | 003CPR | Titanium | | 10.00 |
| 04-A137027 | 003CPR | VOA's | | 136.00 |
| 04-A137027 | 003CPR | BNA's | | 212.00 |

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax



# *INVOICE*

Client Name:

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: COLEMAN KPDES
Project Num:
Project Mgr: M.GAILBRAITH
PO Number: 330680

Invoice No.: 1388365

Invoice Date: 9/16/04

Terms: Net 30 Days

Received: 9/ 4/04
Reported: 9/14/04

| Lab Number | Sample ID | Analysis | Sample Date | Price |
|---|---|---|---|---|
| 04-A137027 | 003CPR | Cyanide | | 22.00 |
| 04-A137027 | 003CPR | PP Metals | | 135.00 |
| 04-A137027 | 003CPR | Aluminum | | 10.00 |

Pay This Amount: 4795.00

For your convenience you may pay your invoice by

American Express, M/C, or Visa , just call 1-800-554-0980 ext. 1114

PLEASE REMIT PAYMENT TO: TestAmerica Analytical Testing Corp.
P.O. 538020
Atlanta, Ga. 30353-8020
Federal Tax ID: 02-0655957

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Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

**388365**

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
a/Zip Code: Henderson KY 42419
Project Manager: M Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Coleman KPDES
Project #:
Site/Location ID: 006 PI  State: KY
Report To: M Galbraith
Invoice To: Attn: Accounting
Quote #: 082004-22-199  PO#: 330680

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Uniques Quad | Metals | Cyanide | VOAs TDC | O&G | Nit Phos COD | Sulfide | Color | PPD BNAs | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006 PI | 9-3-04 | 1150 | G | | WW | | | | | | X | | X | | | | | | 13 | 70 | 23 | X 3L |
| 006 PI | | | | | | X | | | | | | | | X | | | | | | | | |
| 006 PI | | | | | | | | X | | | | | | | X | | | | | | | |
| 006 PI | | | | | | | X | | | | | | | | | X | | | | | | 6 VOA |
| 006 PI | | | | | | | | | X | | | | | | | | X | | | | | |
| 006 PI | | | | | | | | | X | | | | | | | | | X | | | | |
| 006 PI | | | | | | | | X | | | | | | | | | | | X | | | |
| 006 PI | | | | | | | | | | | X | | | | | | | | | X | | |
| 006 PI | | | | | | | | | | | X | | | | | | | | | | X | X 2L glass |
| | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 9-3-04 | 1500 | Received By: | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 9/4/04 | 8:10 |

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Nashville, TN 37204

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Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring — yes

**388365**

Client Name: Western Kentucky Energy — Client #: 8407
Address: 145 N Main Street
Zip Code: Henderson KY 42419
Project Manager: M Galbraith
Telephone Number: 270-844-6030 — Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Coleman KPDES
Project #:
Site/Location ID: 002 AP — State: KY
Report To: M Galbraith
Invoice To: attn: accounting
Quote #: 082004-212-199 — PO#: 5330680

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Inorgs Gnrl | Metals | Cyanide | VOAs, TOC | O+G | Nit Phos COD | Sulfide | Coli F | PCB BNA 5 | QC Deliverables | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 002AP | 9-30-4 | 1000 | G | | WW | | | | | | X | | X | | | | | | 13 | 7024 | | | X3L |
| 002AP | ↓ | ↓ | ↓ | | ↓ | X | | | | | | | | X | | | | | | ↓ | | | |
| 002AP | | | | | | | | X | | | | | | | X | | | | | | | | |
| 002AP | | | | | | | X | | | | | | | | | X | | | | | | | 6 VOA |
| 002AP | | | | | | | | | X | | | | | | | | X | | | | | | |
| 002AP | | | | | | | | | X | | | | | | | | | X | | | | | |
| 002AP | | | | | | | | X | | | | | | | | | | | X | | | | |
| 002AP | | | | | | | | | | | X | | | | | | | | | X | | | |
| 002AP | ↓ | ↓ | ↓ | | ↓ | | | | | | X | | | | | | | | | | X | | X2L 9/30/04 |

**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 9-30-4 | | | | |
| Relinquished By: | | | | | |
| Relinquished By: | | | Received By: | 9/30/04 | 9:20 |

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Nashville, TN 37204

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Fax: 615-726-3404

388365

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
Zip Code: Henderson KY 42419
Manager: M Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Coleman KPDES
Project #:
Site/Location ID: 004 SEO  State: KY
Report To: MGalbraith
Invoice To: Attn: Accounting
Quote #: 082044-212-1990  PO #: 330680

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: ___
Fax Results: Y (N)

SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$, HCl, NaOH, $H_2SO_4$, Methanol, None, Other (Specify) | Analyze For: VOAs Gmed, metals, cyanide, VOAs TOC, O+G, N.T Phos COD, Sulfide, color, PP BNAs | QC Deliverables: ___ None, ___ Level 2 (Batch QC), ___ Level 3, ___ Level 4, Other: ___ | REMARKS

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix | Preservation & # of Containers | VOAs Gmed | metals | cyanide | VOAs TOC | O+G | N.T Phos COD | Sulfide | color | PP BNAs | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 004 SEO | 9-30-04 | 1100 | G | | WW | | X | | | | | | 137025 | | | X3L |
| 004 SEO | | | | | | | | X | | | | | | | | |
| 004 SEO | | | | | | | | | X | | | | | | | |
| 004 SEO | | | | | | | | | | X | | | | | | 6 VOA |
| 004 SEO | | | | | | | | | | | X | | | | | |
| 004 SEO | | | | | | | | | | | | X | | | | |
| 004 SEO | | | | | | | | | | | | | X | | | |
| 004 SEO | | | | | | | | | | | | | | X | | |
| 004 SEO | | | | | | | | | | | | | | | | |
| 004 SEO | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 9-30-04 | 1502 | | | |
| Relinquished By: | | | | | |
| Relinquished By: | | | Received By: | Date: 9/1/04 | Time: 8:10 |

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Nashville, TN 37204

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Fax: 615-726-3404

388365

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
City/State/Zip Code: Henderson KY 42419
Project Manager: M Galbraith
Telephone Number: 270-844-6030  Fax: 60023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Coleman KPDES
Project #:
Site/Location ID: 001 OTC  State: KY
Report To: M Galbraith
Invoice To: Attn: accounting
Quote #: 082004-22-199  PO#: 330680

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Inorg anal | metals | cyanide | VOAs TOC | O&G | Nit Phos COD | SULFIDE | Cl Cl- | PPO BNAs | QC Deliverables: None / Level 2 (Batch QC) / Level 3 / Level 4 / Other: REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001OTC | 9-3-04 | 1130 | G | | WW | | | | | | X | | X | | | | | | 137026 | | | x3L |
| 001OTC | | | | | | X | | | | | | | | X | | | | | | | | |
| 001OTC | | | | | | | | X | | | | | | | X | | | | | | | |
| 001OTC | | | | | | | X | | | | | | | | | X | | | | | | 6 VOA |
| 001OTC | | | | | | | | | X | | | | | | | | X | | | | | |
| 001OTC | | | | | | | | | X | | | | | | | | | X | | | | |
| 001OTC | | | | | | | | X | | | | | | | | | | | X | | | |
| 001OTC | | | | | | | | | | | X | | | | | | | | | X | | |
| 001OTC | | | | | | | | | | | X | | | | | | | | | | X | x2L glass |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 9-3-04 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 9/4/04 | Time: 8:10 |

388365

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Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? Yes
Compliance Monitoring

Client Name: Western Kentucky Energy Client #: 8407
Address: 145 N Main St
City/State/Zip Code: Henderson KY 42419
Project Manager: M Galbraith
Telephone Number: 270-844-6030 Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Coleman KPDES
Project #:
Site/Location ID: 003 CPR State: KY
Report To: M Galbraith
Invoice To: attn: accounting
Quote #: 082004-212-1990 PO#: 330680

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Cyanides Amen | metals | cyanide | VOAs TBC | O+G | Nit Phos COD | Sulfide | Color | PAH BNA's | QC Deliverables | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 003 CPR | 9-30-4 | 1020 | G | | WW | | | | | | X | | X | | | | | | 137027 | | | | X3L |
| 003 CPR | | 1020 | C | | | X | | | | | | | | X | | | | | | | | | |
| 003 CPR | | | | | | | | X | | | | | | | X | | | | | | | | |
| 003 CPR | | | | | | | X | | | | | | | | | X | | | | | | | 6 VOA |
| 003 CPR | | | | | | | | | X | | | | | | | | X | | | | | | |
| 003 CPR | | | | | | | | | X | | | | | | | | | X | | | | | |
| 003 CPR | | | | | | | | X | | | | | | | | | | | X | | | | |
| 003 CPR | | | | | | | | | | | X | | | | | | | | | X | | | |
| 003 CPR | | | | | | | | | | | X | | | | | | | | | | X | | x2L glass |

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

Special Instructions:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 9-30-4 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 9/4/04 | Time: 8.00 |

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION

**Nashville Division**

388365

**COOLER RECEIPT FORM** **BC**

**Client Name :** Western Kentucky Energy

**Cooler Received/Opened On:** 9/4/04 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 1.4 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES....NO...NA
5. Were custody papers inside cooler?..... YES....NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES....NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES....NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition ( unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

    If not, record standard ID of preservative used here_____

17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

| 4366 | 5705 | 1753 | 4377 | 5727 |
|---|---|---|---|---|
| Fed-Ex | UPS | Velocity | Airborne | Route | Off-street | Misc. |

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica
ANALYTICAL TESTING CORPORATION

# NASHVILLE ALERT FORM FOR SAMPLE LOGIN

This form is to be emailed only to the appropriate parties. The email will serve as the document control of the date and time received/sent.

## ALERT INFORMATION: Project TAT = _____ DAY
## Documentation Level: II III IV

- Client Name: Western KY Energy
- Client Number: 8407
- Project Name: Coleman KPDES
- Project Number:
- Date to receive cooler: 9/4/04
- How many samples are there? 5
- Matrix of samples: Water
- What tests will be on the COC? See Quote
- Will a copy of the COC be faxed? YES or NO
  Please highlight/circle the appropriate answer.
- Is this Project TAT Pre-Approved? YES or NO
  Please highlight/circle the appropriate answer. Login, for pre-approved projects, please answer demographic "Approved Rush (YES)?" (60271) for every sample.

## PURPOSE OF THIS ALERT:

- Heads up for incoming project: PO# 330680.

Or

- Project changes prior to sample login:

**LOGIN: REMEMBER TO ALWAYS PRINT CLIENT NOTES, WHEN APPLICABLE.**

TestAmerica
INCORPORATED

# Sample NonConformance/COC Revision Form

| | | | | | |
|---|---|---|---|---|---|
| **Initiated by:** | Sgambill | **Phone:** | 2708446030 | NC Closed | ☑ |
| **Client Name:** | WESTERN KY EN | **Sample Range:** | 137023-137027 | Date Closed | 9/7/2004 |
| **Client Contact:** | TOM SHAW | **SDG:** | 388365 | | |
| **Client Account:** | 8407 | **Analyst:** | 249 | | |
| **Date Created:** | 9/4/2004 | **Supervisor:** | Paul Buckingham | | |
| **NC #:** | 137027 | **NC Type:** | NC Analytical 1 | | |
| **Project Name:** | COLEMAN KPDES | **Terminal Manager:** | | | |
| **Project Number:** | | | | | |
| **Project Origin** | KY | | | | |
| **Regulatory :** | | | | | |

**Process:** Subcontract Samples?

**Action:**

**Corrected By:** Jennifer Ann Chap

**Closed:** ☑ jachapman

**Comments:**

Comment added by: Mbeasley on 9/7/2004 12:23:16 PM
NC closed with out comments

**********

Comment added by: jachapman on 9/7/2004 10:07:02 AM
Sent to Warner.

**********

SUB OUT FECAL.

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800-765-0980 • 615-726-3404 Fax

9/14/04

# CASE NARRATIVE

***WESTERN KY ENERGY 8407***
***TOM SHAW***
***P.O. BOX 1518***
***HENDERSON, KY 42419-1518***

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: COLEMAN KPDES
Project Number: .
Laboratory Project Number: 388365.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.



| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| 006PI | 04-A137023 | |
| 002AP | 04-A137024 | |
| 004SIO | 04-A137025 | |
| 001OTC | 04-A137026 | |
| 003CPR | 04-A137027 | |

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ANALYTICAL TESTING CORPORATION

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800-765-0980 • 615-726-3404 Fax



| Sample Identification | Lab Number | Collection Date |
|---|---|---|

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 9/14/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 90038

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: COLEMAN KPDES
Sampler: MICHAEL GAILBRAITH

Lab Number: 04-A137023
Sample ID: 006PI
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 4/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 9/ 4/04 | 22:45 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 9/ 9/04 | 22:00 | J. Hill | 405.1 | 1298 |
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 1,4-Dichlorobenzene . | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137023
Sample ID: 006PI
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Phenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 20:57 | R. Beard | 625 | 4542 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137023
Sample ID: 006PI
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Benzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Bromoform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Bromomethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Carbon tetrachloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Chlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Chloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Chloroform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Chloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Dibromochloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Dichlorodifluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Ethylbenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Methylene chloride | ND | mg/l | 0.00250 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Tetrachloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Toluene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Trichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Vinyl chloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Xylenes (Total) | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Bromodichloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| Trichlorofluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:05 | A. Steimle | 624 | 3026 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.313 | mg/l | 0.100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137023
Sample ID: 006PI
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Barium | 0.0510 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Calcium | 38.1 | mg/l | 1.00 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Chromium | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Copper | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Iron | 0.449 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Lead | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Magnesium | 12.1 | mg/l | 1.00 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Manganese | 0.0390 | mg/l | 0.0150 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Mercury | ND | mg/l | 0.00020 | 1 | 9/ 7/04 | 13:18 | K. Ahmed | 7470A | 1909 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Nickel | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Selenium | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Silver | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Thallium | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Tin | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Zinc | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Titanium | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Boron, Total | 0.0530 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 7.00 | mg/l | 3.00 | 1 | 9/10/04 | 11:41 | S. Overton | 410.4 Mod | 3967 |
| Nitrate/Nitrite-N as N | 0.770 | mg/l | 0.100 | 1 | 9/ 4/04 | 17:27 | K.Saiyasak | 353.2 | 1423 |
| Fluoride | ND | mg/l | 0.200 | 1 | 9/10/04 | 8:50 | T. Beverly | SM4500D | 5221 |
| Sulfate | 76.0 | mg/l | 2.00 | 2 | 9/ 8/04 | 2:51 | M.Shockley | 375.4 | 3225 |
| Chlorine, residual | ND | mg/l | 0.020 | 1 | 9/ 5/04 | 12:21 | T. Beverly | 330.5 | 2602 |
| Apparent Color | ND | Color Unit | | | 9/ 5/04 | 12:35 | T. Beverly | 110.2 | 1650 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 9/13/04 | 16:20 | K.Saiyasak | 365.4 | 7043 |
| Cyanide | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 12:16 | K.Saiyasak | 9012 | 1990 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 9/ 4/04 | 17:28 | J. Hill | 425.1 | 1422 |
| Hardness | 145. | mg/L | 10.0 | 1 | 9/ 7/04 | 16:55 | G.McCord | SM2340B | 1122 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 9/ 9/04 | 14:39 | K.Saiyasak | 350.1M | 2925 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137023
Sample ID: 006PI
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 3.31 | mg/l | 1.00 | 1 | 9/ 4/04 | 18:23 | M.Checolle | 415.1 | 1507 |
| Total Suspended Solids | 14.0 | mg/l | 2.0 | 2 | 9/ 5/04 | 8:30 | J. Hill | 160.2 | 1357 |
| Sulfite | ND | mg/l | 5.0 | 1 | 9/ 6/04 | 23:36 | W. Choate | 377.1 | 1891 |
| Sulfide | ND | mg/l | 1.000 | 1 | 9/ 8/04 | 22:00 | I. Barwari | 376.1 | 2920 |
| Chloride | 24.6 | mg/l | 2.00 | 2 | 9/ 9/04 | 19:13 | W. Choate | 325.2 | 3564 |
| Bromide | ND | mg/l | 1.00 | 1 | 9/ 8/04 | 17:34 | S. Overton | 300 | 1309 |
| Total Nitrogen | 1.17 | mg/l | 0.10 | 1 | 9/13/04 | 16:11 | K.Saiyasak | SM-4500 | 7041 |
| Oil & Grease as HEM | ND | mg/l | 5.26 | 1 | 9/10/04 | 18:11 | K. Turner | 1664A | 5108 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Subbed-out Analytical | see attached report | | | | | | | | |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 9/ 8/04 | | K. Turner | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 93. | 79. - 125. |
| VOA Surrogate, Toluene d8 | 101. | 80. - 126. |
| VOA Surrogate, 4-Bromofluorobenzene | 103. | 80. - 145. |
| VOA Surrogate, Dibromofluoromethane | 99. | 79. - 138. |
| surr-Nitrobenzene-d5 | 63. | 44. - 92. |
| surr-2-Fluorobiphenyl | 64. | 49. - 92. |
| surr-Terphenyl d14 | 76. | 49. - 113. |
| surr-Phenol d5 | 38. | 8. - 61. |
| surr-2-Fluorophenol | 45. | 7. - 77. |
| surr-2,4,6-Tribromophenol | 76. | 34. - 109. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A137023
Sample ID: 006PI
Project:


LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: COLEMAN KPDES
Sampler: MICHAEL GAILBRAITH

Lab Number: 04-A137024
Sample ID: 002AP
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 4/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 9/ 4/04 | 22:45 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 9/ 9/04 | 22:00 | J. Hill | 405.1 | 1298 |
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137024
Sample ID: 002AP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Phenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 9/12/04 | 21:33 | R. Beard | 625 | 4542 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.00500 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137024
Sample ID: 002AP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | mg/l | 0.00500 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Benzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Bromoform | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Bromomethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Carbon tetrachloride | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Chlorobenzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Chloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Chloroform | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Chloromethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Dibromochloromethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Dichlorodifluoromethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,1-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,2-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,1-Dichloroethene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Ethylbenzene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Methylene chloride | ND | mg/l | 0.00250 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Tetrachloroethene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Toluene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Trichloroethene | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Vinyl chloride | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Xylenes (Total) | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Bromodichloromethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| Trichlorofluoromethane | ND | mg/l | 0.00100 | 1 | 9/10/04 | 13:12 | T McCollum | 624 | 6272 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.243 | mg/l | 0.100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137024
Sample ID: 002AP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | 0.0180 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Arsenic | 0.0730 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Barium | 0.160 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cadmium | 0.0017 | mg/l | 0.0010 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Calcium | 292. | mg/l | 10.0 | 10 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Chromium | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Copper | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Iron | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Lead | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Magnesium | 20.5 | mg/l | 1.00 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Manganese | 0.128 | mg/l | 0.0150 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Mercury | ND | mg/l | 0.00020 | 1 | 9/ 7/04 | 13:18 | K. Ahmed | 7470A | 1909 |
| Molybdenum | 0.417 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Nickel | 0.0520 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Selenium | 0.0730 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Silver | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Thallium | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Tin | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Zinc | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Titanium | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Boron, Total | 11.3 | mg/l | 0.500 | 10 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | ND | mg/l | 3.00 | 1 | 9/10/04 | 11:41 | S. Overton | 410.4 Mod | 3967 |
| Nitrate/Nitrite-N as N | 1.22 | mg/l | 0.100 | 1 | 9/ 4/04 | 17:28 | K.Saiyasak | 353.2 | 1423 |
| Fluoride | 0.830 | mg/l | 0.200 | 1 | 9/10/04 | 8:50 | T. Beverly | SM4500D | 5221 |
| Sulfate | 865. | mg/l | 50.0 | 50 | 9/ 8/04 | 2:51 | M.Shockley | 375.4 | 3225 |
| Chlorine, residual | ND | mg/l | 0.020 | 1 | 9/ 5/04 | 12:21 | T. Beverly | 330.5 | 2602 |
| Apparent Color | ND | Color Unit | | | 9/ 5/04 | 12:35 | T. Beverly | 110.2 | 1650 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 9/13/04 | 16:20 | K.Saiyasak | 365.4 | 7043 |
| Cyanide | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 12:16 | K.Saiyasak | 9012 | 1990 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 9/ 4/04 | 17:28 | J. Hill | 425.1 | 1422 |
| Hardness | 814. | mg/L | 10.0 | 1 | 9/ 7/04 | 16:55 | G.McCord | SM2340B | 1122 |
| Ammonia Nitrogen as N | 0.210 | mg/l | 0.100 | 1 | 9/ 9/04 | 14:39 | K.Saiyasak | 350.1M | 2925 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137024
Sample ID: 002AP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | mg/l | 1.00 | 1 | 9/ 4/04 | 18:23 | M.Checolle | 415.1 | 1507 |
| Total Suspended Solids | ND | mg/l | 2.0 | 2 | 9/ 5/04 | 8:30 | J. Hill | 160.2 | 1357 |
| Sulfite | ND | mg/l | 5.0 | 1 | 9/ 6/04 | 23:36 | W. Choate | 377.1 | 1891 |
| Sulfide | ND | mg/l | 1.000 | 1 | 9/ 8/04 | 22:00 | I. Barwari | 376.1 | 2920 |
| Chloride | 102. | mg/l | 5.00 | 5 | 9/ 9/04 | 19:16 | W. Choate | 325.2 | 3564 |
| Bromide | ND | mg/l | 1.00 | 1 | 9/ 8/04 | 17:34 | S. Overton | 300 | 1309 |
| Total Nitrogen | 1.24 | mg/l | 0.10 | 1 | 9/13/04 | 16:11 | K.Saiyasak | SM-4500 | 7041 |
| Oil & Grease as HEM | ND | mg/l | 5.26 | 1 | 9/10/04 | 18:11 | K. Turner | 1664A | 5108 |

*MISCELLANEOUS CHEMISTRY*
Subbed-out Analytical see attached report

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 9/ 8/04 | | K. Turner | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 89. | 79. - 125. |
| VOA Surrogate, Toluene d8 | 101. | 80. - 126. |
| VOA Surrogate, 4-Bromofluorobenzene | 93. | 80. - 145. |
| VOA Surrogate, Dibromofluoromethane | 103. | 79. - 138. |
| surr-Nitrobenzene-d5 | 65. | 44. - 92. |
| surr-2-Fluorobiphenyl | 65. | 49. - 92. |
| surr-Terphenyl d14 | 76. | 49. - 113. |
| surr-Phenol d5 | 41. | 8. - 61. |
| surr-2-Fluorophenol | 48. | 7. - 77. |
| surr-2,4,6-Tribromophenol | 77. | 34. - 109. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A137024
Sample ID: 002AP
Project:


LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: COLEMAN KPDES
Sampler: MICHAEL GAILBRAITH

Lab Number: 04-A137025
Sample ID: 004SIO
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 4/04
Time Received: 8:00


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 9/ 4/04 | 22:45 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 9/ 9/04 | 22:00 | J. Hill | 405.1 | 1298 |
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137025
Sample ID: 004SIO
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Phenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:04 | D. Harris | 625 | 3146 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137025
Sample ID: 004SIO
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Benzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Bromoform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Bromomethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Carbon tetrachloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Chlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Chloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Chloroform | 0.00630 | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Chloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Dibromochloromethane | 0.00220 | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Dichlorodifluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Ethylbenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Methylene chloride | ND | mg/l | 0.00250 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Tetrachloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Toluene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Trichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Vinyl chloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Xylenes (Total) | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Bromodichloromethane | 0.00500 | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| Trichlorofluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 4:59 | A. Steimle | 624 | 3026 |
| *METALS* | | | | | | | | | |
| Aluminum | ND | mg/l | 0.100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137025
Sample ID: 004SIO
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Barium | 0.0740 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Calcium | 75.8 | mg/l | 1.00 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Chromium | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Copper | 0.0120 | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Iron | 0.104 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Lead | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Magnesium | 17.7 | mg/l | 1.00 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Manganese | ND | mg/l | 0.0150 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Mercury | 0.00516 | mg/l | 0.00040 | 2 | 9/ 7/04 | 13:18 | K. Ahmed | 7470A | 1909 |
| Molybdenum | 0.0700 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Nickel | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Selenium | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Silver | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Thallium | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Tin | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Zinc | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Titanium | ND | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| Boron, Total | 0.427 | mg/l | 0.0500 | 1 | 9/ 7/04 | 16:55 | G.McCord | 6010B | 1122 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 15.0 | mg/l | 3.00 | 1 | 9/10/04 | 11:41 | S. Overton | 410.4 Mod | 3967 |
| Nitrate/Nitrite-N as N | 14.7 | mg/l | 0.100 | 1 | 9/ 4/04 | 17:29 | K.Saiyasak | 353.2 | 1423 |
| Fluoride | 0.730 | mg/l | 0.200 | 1 | 9/10/04 | 8:50 | T. Beverly | SM4500D | 5221 |
| Sulfate | 91.0 | mg/l | 5.00 | 5 | 9/ 8/04 | 2:51 | M.Shockley | 375.4 | 3225 |
| Chlorine, residual | 0.482 | mg/l | 0.020 | 1 | 9/ 5/04 | 12:21 | T. Beverly | 330.5 | 2602 |
| Apparent Color | ND | Color Unit | | | 9/ 5/04 | 12:35 | T. Beverly | 110.2 | 1650 |
| Phosphorus | 1.91 | mg/l | 0.100 | 1 | 9/13/04 | 16:20 | K.Saiyasak | 365.4 | 7043 |
| Cyanide | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 12:16 | K.Saiyasak | 9012 | 1990 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 9/ 4/04 | 17:28 | J. Hill | 425.1 | 1422 |
| Hardness | 262. | mg/L | 10.0 | 1 | 9/ 7/04 | 16:55 | G.McCord | SM2340B | 1122 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 9/ 9/04 | 14:39 | K.Saiyasak | 350.1M | 2925 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137025
Sample ID: 004SIO
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 5.25 | mg/l | 1.00 | 1 | 9/ 4/04 | 18:23 | M.Checolle | 415.1 | 1507 |
| Total Suspended Solids | 6.0 | mg/l | 2.0 | 2 | 9/ 5/04 | 8:30 | J. Hill | 160.2 | 1357 |
| Sulfite | ND | mg/l | 5.0 | 1 | 9/ 6/04 | 23:36 | W. Choate | 377.1 | 1891 |
| Sulfide | ND | mg/l | 1.000 | 1 | 9/ 8/04 | 22:00 | I. Barwari | 376.1 | 2920 |
| Chloride | 86.0 | mg/l | 5.00 | 5 | 9/ 9/04 | 19:16 | W. Choate | 325.2 | 3564 |
| Bromide | ND | mg/l | 1.00 | 1 | 9/ 8/04 | 17:34 | S. Overton | 300 | 1309 |
| Total Nitrogen | 14.8 | mg/l | 0.10 | 1 | 9/13/04 | 16:11 | K.Saiyasak | SM-4500 | 7041 |
| Oil & Grease as HEM | ND | mg/l | 5.26 | 1 | 9/10/04 | 18:11 | K. Turner | 1664A | 5108 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Subbed-out Analytical | see attached report | | | | | | | | |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 9/ 7/04 | | K. Turner | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 94. | 79. - 125. |
| VOA Surrogate, Toluene d8 | 102. | 80. - 126. |
| VOA Surrogate, 4-Bromofluorobenzene | 104. | 80. - 145. |
| VOA Surrogate, Dibromofluoromethane | 97. | 79. - 138. |
| surr-Nitrobenzene-d5 | 56. | 44. - 92. |
| surr-2-Fluorobiphenyl | 56. | 49. - 92. |
| surr-Terphenyl d14 | 72. | 49. - 113. |
| surr-Phenol d5 | 27. | 8. - 61. |
| surr-2-Fluorophenol | 33. | 7. - 77. |
| surr-2,4,6-Tribromophenol | 62. | 34. - 109. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A137025
Sample ID: 004SIO
Project:


LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: COLEMAN KPDES
Sampler: MICHAEL GAILBRAITH

Lab Number: 04-A137026
Sample ID: 0010TC
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 4/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 9/ 4/04 | 22:45 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 9/ 9/04 | 22:00 | J. Hill | 405.1 | 1298 |
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137026
Sample ID: 0010TC
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Phenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 19:34 | D. Harris | 625 | 3146 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137026
Sample ID: 001OTC
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Benzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Bromoform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Bromomethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Carbon tetrachloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Chlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Chloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Chloroform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Chloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Dibromochloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Dichlorodifluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Ethylbenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Methylene chloride | ND | mg/l | 0.00250 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Tetrachloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Toluene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Trichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Vinyl chloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Xylenes (Total) | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Bromodichloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| Trichlorofluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:38 | A. Steimle | 624 | 3026 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.355 | mg/l | 0.100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137026
Sample ID: 0010TC
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Barium | 0.0570 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Calcium | 41.4 | mg/l | 1.00 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Chromium | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Copper | 0.0200 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Iron | 0.551 | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Lead | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Magnesium | 12.8 | mg/l | 1.00 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Manganese | 0.137 | mg/l | 0.0150 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Mercury | ND | mg/l | 0.00020 | 1 | 9/ 7/04 | 13:18 | K. Ahmed | 7470A | 1909 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Nickel | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Selenium | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Silver | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Thallium | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Tin | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Zinc | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Titanium | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Boron, Total | 0.0910 | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 6.00 | mg/l | 3.00 | 1 | 9/10/04 | 11:41 | S. Overton | 410.4 Mod | 3967 |
| Nitrate/Nitrite-N as N | 0.790 | mg/l | 0.100 | 1 | 9/ 4/04 | 17:30 | K.Saiyasak | 353.2 | 1423 |
| Fluoride | 0.310 | mg/l | 0.200 | 1 | 9/10/04 | 8:50 | T. Beverly | SM4500D | 5221 |
| Sulfate | 76.0 | mg/l | 5.00 | 5 | 9/ 8/04 | 2:51 | M.Shockley | 375.4 | 3225 |
| Chlorine, residual | ND | mg/l | 0.020 | 1 | 9/ 5/04 | 12:21 | T. Beverly | 330.5 | 2602 |
| Apparent Color | ND | Color Unit | | | 9/ 5/04 | 12:35 | T. Beverly | 110.2 | 1650 |
| Phosphorus | 2.72 | mg/l | 0.100 | 1 | 9/13/04 | 16:20 | K.Saiyasak | 365.4 | 7043 |
| Cyanide | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 12:16 | K.Saiyasak | 9012 | 1990 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 9/ 4/04 | 17:28 | J. Hill | 425.1 | 1422 |
| Hardness | 156. | mg/L | 10.0 | 1 | 9/11/04 | 15:00 | C.Johnson | SM2340B | 1124 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 9/ 9/04 | 14:39 | K.Saiyasak | 350.1M | 2925 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137026
Sample ID: 001OTC
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 3.19 | mg/l | 1.00 | 1 | 9/ 4/04 | 18:23 | M.Checolle | 415.1 | 1507 |
| Total Suspended Solids | 17.2 | mg/l | 2.0 | 2 | 9/ 5/04 | 8:30 | J. Hill | 160.2 | 1357 |
| Sulfite | ND | mg/l | 5.0 | 1 | 9/ 6/04 | 23:36 | W. Choate | 377.1 | 1891 |
| Sulfide | ND | mg/l | 1.000 | 1 | 9/ 8/04 | 22:00 | I. Barwari | 376.1 | 2920 |
| Chloride | 23.0 | mg/l | 1.00 | 1 | 9/ 9/04 | 18:15 | W. Choate | 325.2 | 3564 |
| Bromide | ND | mg/l | 1.00 | 1 | 9/ 8/04 | 17:34 | S. Overton | 300 | 1309 |
| Total Nitrogen | 1.04 | mg/l | 0.10 | 1 | 9/13/04 | 16:11 | K.Saiyasak | SM-4500 | 7041 |
| Oil & Grease as HEM | ND | mg/l | 5.26 | 1 | 9/10/04 | 18:11 | K. Turner | 1664A | 5108 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Subbed-out Analytical | See attached report | | | | | | | | |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 9/ 7/04 | | K. Turner | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 92. | 79. - 125. |
| VOA Surrogate, Toluene d8 | 103. | 80. - 126. |
| VOA Surrogate, 4-Bromofluorobenzene | 102. | 80. - 145. |
| VOA Surrogate, Dibromofluoromethane | 96. | 79. - 138. |
| surr-Nitrobenzene-d5 | 62. | 44. - 92. |
| surr-2-Fluorobiphenyl | 71. | 49. - 92. |
| surr-Terphenyl d14 | 74. | 49. - 113. |
| surr-Phenol d5 | 38. | 8. - 61. |
| surr-2-Fluorophenol | 39. | 7. - 77. |
| surr-2,4,6-Tribromophenol | 78. | 34. - 109. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A137026
Sample ID: 0010TC
Project:


LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: COLEMAN KPDES
Sampler: MICHAEL GAILBRAITH

Lab Number: 04-A137027
Sample ID: 003CPR
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 9/ 4/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 9/ 4/04 | 22:45 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 9/ 9/04 | 22:00 | J. Hill | 405.1 | 1298 |
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137027
Sample ID: 003CPR
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Phenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 9/ 7/04 | 20:04 | D. Harris | 625 | 3146 |
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137027
Sample ID: 003CPR
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | mg/l | 0.00500 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Benzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Bromoform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Bromomethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Carbon tetrachloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Chlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Chloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Chloroform | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Chloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Dibromochloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Dichlorodifluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,1-Dichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Ethylbenzene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Methylene chloride | ND | mg/l | 0.00250 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Tetrachloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Toluene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Trichloroethene | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Vinyl chloride | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Xylenes (Total) | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Bromodichloromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| Trichlorofluoromethane | ND | mg/l | 0.00100 | 1 | 9/ 6/04 | 3:11 | A. Steimle | 624 | 3026 |
| *METALS* | | | | | | | | | |
| Aluminum | 2.31 | mg/l | 0.100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137027
Sample ID: 003CPR
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Barium | 0.107 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Cadmium | 0.0020 | mg/l | 0.0010 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Calcium | 324. | mg/l | 10.0 | 10 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Chromium | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Cobalt | 0.0300 | mg/l | 0.0200 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Copper | 0.0170 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Iron | 1.10 | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Lead | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Magnesium | 26.0 | mg/l | 1.00 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Manganese | 0.439 | mg/l | 0.0150 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Mercury | ND | mg/l | 0.00020 | 1 | 9/ 7/04 | 13:18 | K. Ahmed | 7470A | 1909 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Nickel | 0.0830 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Selenium | 0.0190 | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Silver | ND | mg/l | 0.0050 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Thallium | ND | mg/l | 0.0100 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Tin | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Zinc | 0.176 | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Titanium | ND | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| Boron, Total | 9.48 | mg/l | 0.0500 | 1 | 9/11/04 | 15:00 | C.Johnson | 6010B | 1124 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | ND | mg/l | 3.00 | 1 | 9/10/04 | 11:41 | S. Overton | 410.4 Mod | 3967 |
| Nitrate/Nitrite-N as N | 0.980 | mg/l | 0.100 | 1 | 9/ 4/04 | 17:30 | K.Saiyasak | 353.2 | 1423 |
| Fluoride | 0.450 | mg/l | 0.200 | 1 | 9/10/04 | 8:50 | T. Beverly | SM4500D | 5221 |
| Sulfate | 935. | mg/l | 50.0 | 50 | 9/ 8/04 | 2:51 | M.Shockley | 375.4 | 3225 |
| Chlorine, residual | ND | mg/l | 0.020 | 1 | 9/ 5/04 | 12:21 | T. Beverly | 330.5 | 2602 |
| Apparent Color | ND | Color Unit | | | 9/ 5/04 | 12:35 | T. Beverly | 110.2 | 1650 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 9/13/04 | 16:20 | K.Saiyasak | 365.4 | 7043 |
| Cyanide | ND | mg/l | 0.0050 | 1 | 9/ 7/04 | 12:16 | K.Saiyasak | 9012 | 1990 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 9/ 4/04 | 17:28 | J. Hill | 425.1 | 1422 |
| Hardness | 916. | mg/L | 10.0 | 1 | 9/11/04 | 15:00 | C.Johnson | SM2340B | 1124 |
| Ammonia Nitrogen as N | 0.230 | mg/l | 0.100 | 1 | 9/ 9/04 | 14:39 | K.Saiyasak | 350.1M | 2925 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A137027
Sample ID: 003CPR
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | ND | mg/l | 1.00 | 1 | 9/ 4/04 | 18:23 | M.Checolle | 415.1 | 1507 |
| Total Suspended Solids | 2.8 | mg/l | 2.0 | 2 | 9/ 5/04 | 8:30 | J. Hill | 160.2 | 1357 |
| Sulfite | ND | mg/l | 5.0 | 1 | 9/ 6/04 | 23:36 | W. Choate | 377.1 | 1891 |
| Sulfide | ND | mg/l | 1.000 | 1 | 9/ 8/04 | 22:00 | I. Barwari | 376.1 | 2920 |
| Chloride | 130. | mg/l | 10.0 | 10 | 9/ 9/04 | 19:17 | W. Choate | 325.2 | 3564 |
| Bromide | ND | mg/l | 1.00 | 1 | 9/ 8/04 | 17:34 | S. Overton | 300 | 1309 |
| Total Nitrogen | 1.00 | mg/l | 0.10 | 1 | 9/13/04 | 16:11 | K.Saiyasak | SM-4500 | 7041 |
| Oil & Grease as HEM | ND | mg/l | 5.26 | 1 | 9/10/04 | 18:11 | K. Turner | 1664A | 5108 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Subbed-out Analytical | see attached report | | | | | | | | |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 9/ 7/04 | | K. Turner | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 92. | 79. - 125. |
| VOA Surrogate, Toluene d8 | 102. | 80. - 126. |
| VOA Surrogate, 4-Bromofluorobenzene | 105. | 80. - 145. |
| VOA Surrogate, Dibromofluoromethane | 96. | 79. - 138. |
| surr-Nitrobenzene-d5 | 59. | 44. - 92. |
| surr-2-Fluorobiphenyl | 69. | 49. - 92. |
| surr-Terphenyl d14 | 75. | 49. - 113. |
| surr-Phenol d5 | 31. | 8. - 61. |
| surr-2-Fluorophenol | 24. | 7. - 77. |
| surr-2,4,6-Tribromophenol | 46. | 34. - 109. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A137027
Sample ID: 003CPR
Project:


LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 1***
***Laboratory Receipt Date: 9/ 4/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | | | | |
| Benzene | mg/l | < 0.00100 | 0.0428 | 0.0500 | 86 | 37 - 151 | 3026 | 04-A136779 |
| Benzene | mg/l | < 0.00100 | 0.0442 | 0.0500 | 88 | 37 - 151 | 6272 | 04-A137024 |
| Chlorobenzene | mg/l | < 0.00100 | 0.0430 | 0.0500 | 86 | 37 - 160 | 3026 | 04-A136779 |
| Chlorobenzene | mg/l | < 0.00100 | 0.0446 | 0.0500 | 89 | 37 - 160 | 6272 | 04-A137024 |
| 1,1-Dichloroethene | mg/l | < 0.00100 | 0.0444 | 0.0500 | 89 | 1 - 234 | 3026 | 04-A136779 |
| 1,1-Dichloroethene | mg/l | < 0.00100 | 0.0516 | 0.0500 | 103 | 1 - 234 | 6272 | 04-A137024 |
| Toluene | mg/l | < 0.00100 | 0.0438 | 0.0500 | 88 | 47 - 150 | 3026 | 04-A136779 |
| Toluene | mg/l | < 0.00100 | 0.0453 | 0.0500 | 91 | 47 - 150 | 6272 | 04-A137024 |
| Trichloroethene | mg/l | < 0.00100 | 0.0424 | 0.0500 | 85 | 71 - 157 | 3026 | 04-A136779 |
| Trichloroethene | mg/l | < 0.00100 | 0.0463 | 0.0500 | 93 | 71 - 157 | 6272 | 04-A137024 |
| Tetrachloroethene | mg/l | < 0.00100 | 0.0408 | 0.0500 | 82 | 64 - 148 | 3026 | 04-A136779 |
| Tetrachloroethene | mg/l | < 0.00100 | 0.0493 | 0.0500 | 99 | 64 - 148 | 6272 | 04-A137024 |
| VOA Surrogate, 1,2-Dichloroe%hRec, d4 | | | | | 92 | 79 - 125 | 3026 | |
| VOA Surrogate, 1,2-Dichloroe%hRec, d4 | | | | | 87 | 79 - 125 | 6272 | |
| VOA Surrogate, Toluene d8 | % Rec | | | | 104 | 80 - 126 | 3026 | |
| VOA Surrogate, Toluene d8 | % Rec | | | | 103 | 80 - 126 | 6272 | |
| VOA Surrogate, 4-Bromofluoro%eRecne | | | | | 106 | 80 - 145 | 3026 | |
| VOA Surrogate, 4-Bromofluoro%eRecne | | | | | 95 | 80 - 145 | 6272 | |
| VOA Surrogate, Dibromofluoro%eRecne | | | | | 95 | 79 - 138 | 3026 | |
| VOA Surrogate, Dibromofluoro%eRecne | | | | | 102 | 79 - 138 | 6272 | |
| **EXTRACTABLE PARAMETERS** | | | | | | | | |
| 1,4-Dichlorobenzene | mg/l | < 0.0100 | 0.0160 | 0.0500 | 32 | 20 - 124 | 3146 | BLANK |
| 1,4-Dichlorobenzene | mg/l | < 0.0100 | 0.0250 | 0.0500 | 50 | 20 - 124 | 4542 | BLANK |
| N-nitrosodi-n-propylamine | mg/l | < 0.0100 | 0.0260 | 0.0500 | 52 | 1 - 230 | 3146 | BLANK |
| N-nitrosodi-n-propylamine | mg/l | < 0.0100 | 0.0330 | 0.0500 | 66 | 1 - 230 | 4542 | BLANK |
| 1,2,4-Trichlorobenzene | mg/l | < 0.0100 | 0.0170 | 0.0500 | 34# | 44 - 142 | 3146 | BLANK |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 2***
***Laboratory Receipt Date: 9/ 4/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | mg/l | < 0.0100 | 0.0260 | 0.0500 | 52 | 44 - 142 | 4542 | BLANK |
| 4-Chloro-3-methylphenol | mg/l | < 0.0100 | 0.0310 | 0.0500 | 62 | 22 - 147 | 3146 | BLANK |
| 4-Chloro-3-methylphenol | mg/l | < 0.0100 | 0.0320 | 0.0500 | 64 | 22 - 147 | 4542 | BLANK |
| Acenaphthene | mg/l | < 0.0100 | 0.0270 | 0.0500 | 54 | 47 - 145 | 3146 | BLANK |
| Acenaphthene | mg/l | < 0.0100 | 0.0310 | 0.0500 | 62 | 47 - 145 | 4542 | BLANK |
| 2,4-dinitrotoluene | mg/l | < 0.0100 | 0.0350 | 0.0500 | 70 | 39 - 139 | 3146 | BLANK |
| 2,4-dinitrotoluene | mg/l | < 0.0100 | 0.0380 | 0.0500 | 76 | 39 - 139 | 4542 | BLANK |
| Pyrene | mg/l | < 0.0100 | 0.0330 | 0.0500 | 66 | 52 - 115 | 3146 | BLANK |
| Pyrene | mg/l | < 0.0100 | 0.0360 | 0.0500 | 72 | 52 - 115 | 4542 | BLANK |
| 2-Chlorophenol | mg/l | < 0.0100 | 0.0180 | 0.0500 | 36 | 23 - 134 | 3146 | BLANK |
| 2-Chlorophenol | mg/l | < 0.0100 | 0.0290 | 0.0500 | 58 | 23 - 134 | 4542 | BLANK |
| 4-Nitrophenol | mg/l | < 0.0100 | 0.00300 | 0.0500 | 6 | 1 - 132 | 3146 | BLANK |
| 4-Nitrophenol | mg/l | < 0.0100 | 0.0130 | 0.0500 | 26 | 1 - 132 | 4542 | BLANK |
| Pentachlorophenol | mg/l | < 0.0100 | 0.0140 | 0.0500 | 28 | 14 - 176 | 3146 | BLANK |
| Pentachlorophenol | mg/l | < 0.0100 | 0.0320 | 0.0500 | 64 | 14 - 176 | 4542 | BLANK |
| **METALS** | | | | | | | | |
| Aluminum | mg/l | 0.0510 | 2.27 | 2.00 | 111 | 75. - 125. | 1122 | '137025 |
| Aluminum | mg/l | 2.31 | 4.92 | 2.00 | 130# | 75. - 125. | 1124 | 04-A137027 |
| Antimony | mg/l | < 0.0100 | 0.0910 | 0.100 | 91 | 75. - 125. | 1122 | '137025 |
| Antimony | mg/l | < 0.0100 | 0.120 | 0.100 | 120 | 75. - 125. | 1124 | 04-A137027 |
| Arsenic | mg/l | < 0.0100 | 0.0540 | 0.0500 | 108 | 75. - 125. | 1122 | '137025 |
| Arsenic | mg/l | < 0.0100 | 0.0610 | 0.0500 | 122 | 75. - 125. | 1124 | 04-A137027 |
| Barium | mg/l | 0.0740 | 2.14 | 2.00 | 103 | 75. - 125. | 1122 | '137025 |
| Barium | mg/l | 0.107 | 2.30 | 2.00 | 110 | 75. - 125. | 1124 | 04-A137027 |
| Beryllium | mg/l | < 0.0040 | 0.0560 | 0.0500 | 112 | 75. - 125. | 1122 | '137025 |
| Beryllium | mg/l | 0.0012 | 0.0620 | 0.0500 | 122 | 75. - 125. | 1124 | 04-A137027 |
| Cadmium | mg/l | < 0.0010 | 0.0491 | 0.0500 | 98 | 75. - 125. | 1122 | '137025 |
| Cadmium | mg/l | 0.0020 | 0.0560 | 0.0500 | 108 | 75. - 125. | 1124 | 04-A137027 |
| Chromium | mg/l | < 0.0050 | 0.201 | 0.200 | 100 | 75. - 125. | 1122 | '137025 |
| Chromium | mg/l | < 0.0050 | 0.214 | 0.200 | 107 | 75. - 125. | 1124 | 04-A137027 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 3***
***Laboratory Receipt Date: 9/ 4/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| Cobalt | mg/l | < 0.0200 | 0.511 | 0.500 | 102 | 75. - 125. | 1122 | '137025 |
| Cobalt | mg/l | 0.0300 | 0.574 | 0.500 | 109 | 75. - 125. | 1124 | 04-A137027 |
| Copper | mg/l | 0.0120 | 0.261 | 0.250 | 100 | 75. - 125. | 1122 | '137025 |
| Copper | mg/l | 0.0170 | 0.307 | 0.250 | 116 | 75. - 125. | 1124 | 04-A137027 |
| Iron | mg/l | 0.104 | 1.14 | 1.00 | 104 | 75. - 125. | 1122 | '137025 |
| Iron | mg/l | 1.10 | 2.20 | 1.00 | 110 | 75. - 125. | 1124 | 04-A137027 |
| Lead | mg/l | < 0.0050 | 0.0460 | 0.0500 | 92 | 75. - 125. | 1122 | '137025 |
| Lead | mg/l | < 0.0050 | 0.0590 | 0.0500 | 118 | 75. - 125. | 1124 | 04-A137027 |
| Manganese | mg/l | 0.0051 | 0.496 | 0.500 | 98 | 75. - 125. | 1122 | '137025 |
| Manganese | mg/l | 0.439 | 1.01 | 0.500 | 114 | 75. - 125. | 1124 | 04-A137027 |
| Mercury | mg/l | < 0.00020 | 0.00097 | 0.00100 | 97 | 64. - 138. | 1909 | 04-A137299 |
| Molybdenum | mg/l | 0.0700 | 0.562 | 0.500 | 98 | 75. - 125. | 1122 | '137025 |
| Molybdenum | mg/l | 0.0040 | 0.524 | 0.500 | 104 | 75. - 125. | 1124 | 04-A137027 |
| Nickel | mg/l | 0.0030 | 0.503 | 0.500 | 100 | 75. - 125. | 1122 | '137025 |
| Nickel | mg/l | 0.0830 | 0.622 | 0.500 | 108 | 75. - 125. | 1124 | 04-A137027 |
| Selenium | mg/l | < 0.0100 | 0.0580 | 0.0500 | 116 | 75. - 125. | 1122 | '137025 |
| Selenium | mg/l | 0.0190 | 0.0840 | 0.0500 | 130# | 75. - 125. | 1124 | 04-A137027 |
| Silver | mg/l | < 0.0050 | 0.0490 | 0.0500 | 98 | 75. - 125. | 1122 | '137025 |
| Silver | mg/l | < 0.0050 | 0.0480 | 0.0500 | 96 | 75. - 125. | 1124 | 04-A137027 |
| Thallium | mg/l | < 0.0100 | 0.0540 | 0.0500 | 108 | 75. - 125. | 1122 | '137025 |
| Thallium | mg/l | 0.0075 | 0.0660 | 0.0500 | 117 | 75. - 125. | 1124 | 04-A137027 |
| Tin | mg/l | < 0.0500 | 1.08 | 1.00 | 108 | 75. - 125. | 1122 | '137025 |
| Tin | mg/l | < 0.0500 | 1.41 | 1.00 | 141# | 75. - 125. | 1124 | 04-A137027 |
| Zinc | mg/l | 0.0408 | 0.513 | 0.500 | 94 | 75. - 125. | 1122 | '137025 |
| Zinc | mg/l | 0.176 | 0.747 | 0.500 | 114 | 75. - 125. | 1124 | 04-A137027 |
| Titanium | mg/l | 0.0020 | 0.988 | 1.00 | 99 | 75. - 125. | 1122 | '137025 |
| Titanium | mg/l | < 0.0500 | 0.808 | 1.00 | 81 | 75. - 125. | 1124 | 04-A137027 |
| Boron, Total | mg/l | 0.427 | 1.42 | 1.00 | 99 | 75. - 125. | 1122 | '137025 |
| Boron, Total | mg/l | 9.48 | 10.5 | 1.00 | 102 | 75. - 125. | 1124 | 04-A137027 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 4***
***Laboratory Receipt Date: 9/ 4/04***

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | | | | |
| Chemical Oxygen Demand | mg/l | < 3.00 | 47.0 | 50.0 | 94 | 90. - 110. | 3967 | 04-A137639 |
| Nitrate/Nitrite-N as N | mg/l | 0.770 | 6.71 | 6.00 | 99 | 90. - 110. | 1423 | 04-A137023 |
| Nitrate/Nitrite-N as N | mg/l | 0.770 | 6.75 | 6.00 | 100 | 90. - 110. | 1423 | 04-A137023 |
| Fluoride | mg/l | 0.310 | 2.30 | 2.00 | 100 | 79. - 125. | 5221 | 04-A137026 |
| Sulfate | mg/l | 76.0 | 174. | 100. | 98 | 58. - 125. | 3225 | 04-A137023 |
| Phosphorus | mg/l | < 0.100 | 2.05 | 2.00 | 102 | 80. - 120. | 7043 | 04-A137023 |
| Cyanide | mg/l | < 0.0050 | 0.942 | 1.00 | 94 | 90. - 110. | 1990 | 04-A135978 |
| Detergents (MBAS) | mg/l | < 0.0500 | 0.742 | 0.750 | 99 | 71. - 117. | 1422 | 04-A137027 |
| Ammonia Nitrogen as N | mg/l | < 0.100 | 4.37 | 5.00 | 87# | 90. - 110. | 2925 | 04-A136055 |
| Total Organic Carbon | mg/l | 3.31 | 27.8 | 20.0 | 122 | 71. - 140. | 1507 | 04-A137023 |
| Sulfite | mg/l | < 5.0 | 40.8 | 40.0 | 102 | 20. - 165. | 1891 | 04-A137023 |
| Sulfide | mg/l | < 1.000 | 20.00 | 20.00 | 100 | 63. - 127. | 2920 | 04-A137023 |
| Chloride | mg/l | 24.6 | 43.2 | 20.0 | 93 | 71. - 123. | 3564 | 04-A137023 |
| Total Nitrogen | mg/l | 1.17 | 3.40 | 2.50 | 89# | 90. - 110. | 7041 | 04-A137023 |
| Oil & Grease as HEM | mg/l | < 5.00 | 36.8 | 40.0 | 92 | 78. - 114. | 5108 | blank |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.27 | 2.27 | 0.00 | 20 | 1122 |
| Aluminum | mg/l | 4.92 | 4.72 | 4.15 | 20 | 1124 |
| Antimony | mg/l | 0.0910 | 0.0940 | 3.24 | 20 | 1122 |
| Antimony | mg/l | 0.120 | 0.114 | 5.13 | 20 | 1124 |
| Arsenic | mg/l | 0.0540 | 0.0540 | 0.00 | 20 | 1122 |
| Arsenic | mg/l | 0.0610 | 0.0580 | 5.04 | 20 | 1124 |
| Barium | mg/l | 2.14 | 2.14 | 0.00 | 20 | 1122 |
| Barium | mg/l | 2.30 | 2.20 | 4.44 | 20 | 1124 |
| Beryllium | mg/l | 0.0560 | 0.0560 | 0.00 | 20 | 1122 |
| Beryllium | mg/l | 0.0620 | 0.0600 | 3.28 | 20 | 1124 |
| Cadmium | mg/l | 0.0491 | 0.0500 | 1.82 | 20 | 1122 |

Project QC continued . . .

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Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| Cadmium | mg/l | 0.0560 | 0.0530 | 5.50 | 20 | 1124 |
| Calcium | mg/l | 73.5 | 74.6 | 1.49 | 20 | 1122 |
| Calcium | mg/l | 306. | 292. | 4.68 | 20 | 1124 |
| Chromium | mg/l | 0.201 | 0.201 | 0.00 | 20 | 1122 |
| Chromium | mg/l | 0.214 | 0.205 | 4.30 | 20 | 1124 |
| Cobalt | mg/l | 0.511 | 0.512 | 0.20 | 20 | 1122 |
| Cobalt | mg/l | 0.574 | 0.548 | 4.63 | 20 | 1124 |
| Copper | mg/l | 0.261 | 0.261 | 0.00 | 20 | 1122 |
| Copper | mg/l | 0.307 | 0.295 | 3.99 | 20 | 1124 |
| Iron | mg/l | 1.14 | 1.14 | 0.00 | 20 | 1122 |
| Iron | mg/l | 2.20 | 2.10 | 4.65 | 20 | 1124 |
| Lead | mg/l | 0.0460 | 0.0460 | 0.00 | 20 | 1122 |
| Lead | mg/l | 0.0590 | 0.0570 | 3.45 | 20 | 1124 |
| Magnesium | mg/l | 17.1 | 17.3 | 1.16 | 20 | 1122 |
| Magnesium | mg/l | 26.6 | 25.5 | 4.22 | 20 | 1124 |
| Manganese | mg/l | 0.496 | 0.498 | 0.40 | 20 | 1122 |
| Manganese | mg/l | 1.01 | 0.961 | 4.97 | 20 | 1124 |
| Mercury | mg/l | 0.00097 | 0.00096 | 1.04 | 20 | 1909 |
| Molybdenum | mg/l | 0.562 | 0.567 | 0.89 | 20 | 1122 |
| Molybdenum | mg/l | 0.524 | 0.503 | 4.09 | 20 | 1124 |
| Nickel | mg/l | 0.503 | 0.504 | 0.20 | 20 | 1122 |
| Nickel | mg/l | 0.622 | 0.594 | 4.61 | 20 | 1124 |
| Selenium | mg/l | 0.0580 | 0.0560 | 3.51 | 20 | 1122 |
| Selenium | mg/l | 0.0840 | 0.0830 | 1.20 | 20 | 1124 |
| Silver | mg/l | 0.0490 | 0.0500 | 2.02 | 20 | 1122 |
| Silver | mg/l | 0.0480 | 0.0460 | 4.26 | 20 | 1124 |
| Thallium | mg/l | 0.0540 | 0.0550 | 1.83 | 20 | 1122 |
| Thallium | mg/l | 0.0660 | 0.0660 | 0.00 | 20 | 1124 |
| Tin | mg/l | 1.08 | 1.08 | 0.00 | 20 | 1122 |
| Tin | mg/l | 1.41 | 1.35 | 4.35 | 20 | 1124 |
| Zinc | mg/l | 0.513 | 0.515 | 0.39 | 20 | 1122 |

Project QC continued . . .

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Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| Zinc | mg/l | 0.747 | 0.731 | 2.17 | 20 | 1124 |
| Titanium | mg/l | 0.988 | 1.00 | 1.21 | 20 | 1122 |
| Titanium | mg/l | 0.808 | 0.774 | 4.30 | 20 | 1124 |
| Boron, Total | mg/l | 1.42 | 1.44 | 1.40 | 20 | 1122 |
| Boron, Total | mg/l | 10.5 | 10.1 | 3.88 | 20 | 1124 |
| Nitrate/Nitrite-N as N | mg/l | 6.71 | 6.75 | 0.59 | 20 | 1423 |
| Fluoride | mg/l | 2.30 | 2.30 | 0.00 | 20 | 5221 |
| Sulfate | mg/l | 174. | 182. | 4.49 | 20 | 3225 |
| Cyanide | mg/l | 0.942 | 0.938 | 0.43 | 20 | 1990 |
| Detergents (MBAS) | mg/l | 0.742 | 0.723 | 2.59 | 20 | 1422 |
| Total Organic Carbon | mg/l | 27.8 | 28.0 | 0.72 | 20 | 1507 |
| Sulfite | mg/l | 40.8 | 41.2 | 0.98 | 20 | 1891 |
| Sulfide | mg/l | 20.00 | 20.00 | 0.00 | 20 | 2920 |
| Chloride | mg/l | 43.2 | 43.4 | 0.46 | 20 | 3564 |
| Oil & Grease as HEM | mg/l | 36.8 | 35.9 | 2.48 | 20 | 5108 |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | | |
| Acrolein | mg/l | 0.250 | 0.119 | 48 | 41 - 175 | 3026 |
| Acrolein | mg/l | 0.250 | 0.165 | 66 | 41 - 175 | 6272 |
| Acrylonitrile | mg/l | 0.250 | 0.211 | 84 | 63 - 148 | 3026 |
| Acrylonitrile | mg/l | 0.250 | 0.230 | 92 | 63 - 148 | 6272 |
| Benzene | mg/l | 0.0500 | 0.0460 | 92 | 37 - 151 | 3026 |
| Benzene | mg/l | 0.0500 | 0.0453 | 91 | 37 - 151 | 6272 |
| Bromoform | mg/l | 0.0500 | 0.0450 | 90 | 45 - 169 | 3026 |

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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Bromoform | mg/l | 0.0500 | 0.0478 | 96 | 45 - 169 | 6272 |
| Bromomethane | mg/l | 0.0500 | 0.0338 | 68 | 1 - 242 | 3026 |
| Bromomethane | mg/l | 0.0500 | 0.0495 | 99 | 1 - 242 | 6272 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0437 | 87 | 70 - 140 | 3026 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0407 | 81 | 70 - 140 | 6272 |
| Chlorobenzene | mg/l | 0.0500 | 0.0471 | 94 | 37 - 160 | 3026 |
| Chlorobenzene | mg/l | 0.0500 | 0.0464 | 93 | 37 - 160 | 6272 |
| Chloroethane | mg/l | 0.0500 | 0.0494 | 99 | 14 - 230 | 3026 |
| Chloroethane | mg/l | 0.0500 | 0.0544 | 109 | 14 - 230 | 6272 |
| Chloroform | mg/l | 0.0500 | 0.0448 | 90 | 51 - 138 | 3026 |
| Chloroform | mg/l | 0.0500 | 0.0447 | 89 | 51 - 138 | 6272 |
| Chloromethane | mg/l | 0.0500 | 0.0410 | 82 | 10 - 273 | 3026 |
| Chloromethane | mg/l | 0.0500 | 0.0440 | 88 | 10 - 273 | 6272 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0477 | 95 | 53 - 149 | 3026 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0478 | 96 | 53 - 149 | 6272 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0490 | 98 | 18 - 190 | 3026 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0508 | 102 | 18 - 190 | 6272 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0484 | 97 | 59 - 156 | 3026 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0510 | 102 | 59 - 156 | 6272 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0474 | 95 | 18 - 190 | 3026 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0506 | 101 | 18 - 190 | 6272 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0426 | 85 | 47 - 160 | 3026 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0492 | 98 | 47 - 160 | 6272 |
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0457 | 91 | 59 - 155 | 3026 |
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0455 | 91 | 59 - 155 | 6272 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0438 | 88 | 49 - 155 | 3026 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0426 | 85 | 49 - 155 | 6272 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0474 | 95 | 1 - 234 | 3026 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0511 | 102 | 1 - 234 | 6272 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0865 | 86 | 54 - 156 | 3026 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0931 | 93 | 54 - 156 | 6272 |

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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0472 | 94 | 10 - 210 | 3026 |
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0454 | 91 | 10 - 210 | 6272 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0428 | 86 | 1 - 227 | 3026 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0436 | 87 | 1 - 227 | 6272 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0407 | 81 | 17 - 183 | 3026 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0411 | 82 | 17 - 183 | 6272 |
| Ethylbenzene | mg/l | 0.0500 | 0.0459 | 92 | 37 - 162 | 3026 |
| Ethylbenzene | mg/l | 0.0500 | 0.0454 | 91 | 37 - 162 | 6272 |
| Methylene chloride | mg/l | 0.0500 | 0.0429 | 86 | 1 - 221 | 3026 |
| Methylene chloride | mg/l | 0.0500 | 0.0461 | 92 | 1 - 221 | 6272 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0492 | 98 | 46 - 157 | 3026 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0459 | 92 | 46 - 157 | 6272 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0446 | 89 | 64 - 148 | 3026 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0501 | 100 | 64 - 148 | 6272 |
| Toluene | mg/l | 0.0500 | 0.0475 | 95 | 47 - 150 | 3026 |
| Toluene | mg/l | 0.0500 | 0.0462 | 92 | 47 - 150 | 6272 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0432 | 86 | 52 - 162 | 3026 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0423 | 85 | 52 - 162 | 6272 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0476 | 95 | 52 - 150 | 3026 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0478 | 96 | 52 - 150 | 6272 |
| Trichloroethene | mg/l | 0.0500 | 0.0463 | 93 | 71 - 157 | 3026 |
| Trichloroethene | mg/l | 0.0500 | 0.0472 | 94 | 71 - 157 | 6272 |
| Vinyl chloride | mg/l | 0.0500 | 0.0448 | 90 | 1 - 251 | 3026 |
| Vinyl chloride | mg/l | 0.0500 | 0.0493 | 99 | 1 - 251 | 6272 |
| Xylenes (Total) | mg/l | 0.150 | 0.136 | 91 | 75 - 129 | 3026 |
| Xylenes (Total) | mg/l | 0.150 | 0.135 | 90 | 75 - 129 | 6272 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0455 | 91 | 35 - 155 | 3026 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0439 | 88 | 35 - 155 | 6272 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0460 | 92 | 17 - 181 | 3026 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0457 | 91 | 17 - 181 | 6272 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 92 | 79 - 125 | 3026 |
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 88 | 79 - 125 | 6272 |
| VOA Surrogate, Toluene d8 % Rec | | | | 104 | 80 - 126 | 3026 |
| VOA Surrogate, Toluene d8 % Rec | | | | 103 | 80 - 126 | 6272 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 107 | 80 - 145 | 3026 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 95 | 80 - 145 | 6272 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 98 | 79 - 138 | 3026 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 101 | 79 - 138 | 6272 |
| **EXTRACTABLE PARAMETERS** | | | | | | |
| Acenaphthene | mg/l | 0.0500 | 0.0330 | 66 | 47 - 145 | 3146 |
| Acenaphthene | mg/l | 0.0500 | 0.0300 | 60 | 47 - 145 | 4542 |
| Acenaphthylene | mg/l | 0.0500 | 0.0340 | 68 | 33 - 145 | 3146 |
| Acenaphthylene | mg/l | 0.0500 | 0.0310 | 62 | 33 - 145 | 4542 |
| Anthracene | mg/l | 0.0500 | 0.0410 | 82 | 27 - 133 | 3146 |
| Anthracene | mg/l | 0.0500 | 0.0390 | 78 | 27 - 133 | 4542 |
| Benzidine | mg/l | 0.0500 | 0.0590 | 118 | 10 - 185 | 3146 |
| Benzidine | mg/l | 0.0500 | 0.0140 | 28 | 10 - 185 | 4542 |
| Benzo(a)anthracene | mg/l | 0.0500 | 0.0400 | 80 | 33 - 143 | 3146 |
| Benzo(a)anthracene | mg/l | 0.0500 | 0.0380 | 76 | 33 - 143 | 4542 |
| Benzo(a)pyrene | mg/l | 0.0500 | 0.0410 | 82 | 17 - 163 | 3146 |
| Benzo(a)pyrene | mg/l | 0.0500 | 0.0400 | 80 | 17 - 163 | 4542 |
| Benzo(b)fluoranthene | mg/l | 0.0500 | 0.0380 | 76 | 24 - 159 | 3146 |
| Benzo(b)fluoranthene | mg/l | 0.0500 | 0.0420 | 84 | 24 - 159 | 4542 |
| Benzo(g,h,i)perylene | mg/l | 0.0500 | 0.0440 | 88 | 1 - 219 | 3146 |
| Benzo(g,h,i)perylene | mg/l | 0.0500 | 0.0230 | 46 | 1 - 219 | 4542 |
| Benzo(k)fluoranthene | mg/l | 0.0500 | 0.0360 | 72 | 11 - 162 | 3146 |
| Benzo(k)fluoranthene | mg/l | 0.0500 | 0.0400 | 80 | 11 - 162 | 4542 |
| 4-Bromophenylphenylether | mg/l | 0.0500 | 0.0350 | 70 | 53 - 127 | 3146 |
| 4-Bromophenylphenylether | mg/l | 0.0500 | 0.0310 | 62 | 53 - 127 | 4542 |
| Butylbenzylphthalate | mg/l | 0.0500 | 0.0420 | 84 | 1 - 152 | 3146 |
| Butylbenzylphthalate | mg/l | 0.0500 | 0.0500 | 100 | 1 - 152 | 4542 |
| 4-Chloro-3-methylphenol | mg/l | 0.0500 | 0.0340 | 68 | 22 - 147 | 3146 |
| 4-Chloro-3-methylphenol | mg/l | 0.0500 | 0.0320 | 64 | 22 - 147 | 4542 |
| bis(2-Chloroethoxy)methane | mg/l | 0.0500 | 0.0360 | 72 | 33 - 184 | 3146 |
| bis(2-Chloroethoxy)methane | mg/l | 0.0500 | 0.0310 | 62 | 33 - 184 | 4542 |
| bis(2-Chloroethyl)ether | mg/l | 0.0500 | 0.0330 | 66 | 12 - 158 | 3146 |

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|---|---|---|---|---|---|---|
| bis(2-Chloroethyl)ether | mg/l | 0.0500 | 0.0280 | 56 | 12 - 158 | 4542 |
| bis(2-Chloroisopropyl)ether | mg/l | 0.0500 | 0.0330 | 66 | 36 - 166 | 3146 |
| bis(2-Chloroisopropyl)ether | mg/l | 0.0500 | 0.0280 | 56 | 36 - 166 | 4542 |
| 2-Chloronaphthalene | mg/l | 0.0500 | 0.0290 | 58 # | 60 - 118 | 3146 |
| 2-Chloronaphthalene | mg/l | 0.0500 | 0.0290 | 58 # | 60 - 118 | 4542 |
| 4-Chlorophenylphenylether | mg/l | 0.0500 | 0.0360 | 72 | 25 - 158 | 3146 |
| 4-Chlorophenylphenylether | mg/l | 0.0500 | 0.0310 | 62 | 25 - 158 | 4542 |
| Chrysene | mg/l | 0.0500 | 0.0370 | 74 | 17 - 168 | 3146 |
| Chrysene | mg/l | 0.0500 | 0.0360 | 72 | 17 - 168 | 4542 |
| Dibenz(a,h)anthracene | mg/l | 0.0500 | 0.0440 | 88 | 1 - 227 | 3146 |
| Dibenz(a,h)anthracene | mg/l | 0.0500 | 0.0240 | 48 | 1 - 227 | 4542 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0270 | 54 | 32 - 129 | 3146 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0240 | 48 | 32 - 129 | 4542 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0260 | 52 | 10 - 172 | 3146 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0230 | 46 | 10 - 172 | 4542 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0250 | 50 | 20 - 124 | 3146 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0220 | 44 | 20 - 124 | 4542 |
| 3,3'-Dichlorobenzidine | mg/l | 0.0500 | 0.0440 | 88 | 10 - 262 | 3146 |
| 3,3'-Dichlorobenzidine | mg/l | 0.0500 | 0.0340 | 68 | 10 - 262 | 4542 |
| Diethylphthalate | mg/l | 0.0500 | 0.0350 | 70 | 1 - 114 | 3146 |
| Diethylphthalate | mg/l | 0.0500 | 0.0350 | 70 | 1 - 114 | 4542 |
| Dimethylphthalate | mg/l | 0.0500 | 0.0340 | 68 | 1 - 112 | 3146 |
| Dimethylphthalate | mg/l | 0.0500 | 0.0340 | 68 | 1 - 112 | 4542 |
| Di-n-butylphthalate | mg/l | 0.0500 | 0.0380 | 76 | 1 - 118 | 3146 |
| Di-n-butylphthalate | mg/l | 0.0500 | 0.0410 | 82 | 1 - 118 | 4542 |
| 2,4-dinitrotoluene | mg/l | 0.0500 | 0.0390 | 78 | 39 - 139 | 3146 |
| 2,4-dinitrotoluene | mg/l | 0.0500 | 0.0400 | 80 | 39 - 139 | 4542 |
| 2,6-Dinitrotoluene | mg/l | 0.0500 | 0.0420 | 84 | 50 - 158 | 3146 |
| 2,6-Dinitrotoluene | mg/l | 0.0500 | 0.0390 | 78 | 50 - 158 | 4542 |
| Di-n-octylphthalate | mg/l | 0.0500 | 0.0450 | 90 | 4 - 146 | 3146 |
| Di-n-octylphthalate | mg/l | 0.0500 | 0.0850 | 170 # | 4 - 146 | 4542 |

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| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| 1,2-Diphenylhydrazine | mg/l | 0.0500 | 0.0340 | 68 | 47 - 117 | 3146 |
| 1,2-Diphenylhydrazine | mg/l | 0.0500 | 0.0320 | 64 | 47 - 117 | 4542 |
| Fluoranthene | mg/l | 0.0500 | 0.0380 | 76 | 26 - 137 | 3146 |
| Fluoranthene | mg/l | 0.0500 | 0.0380 | 76 | 26 - 137 | 4542 |
| Fluorene | mg/l | 0.0500 | 0.0340 | 68 | 59 - 121 | 3146 |
| Fluorene | mg/l | 0.0500 | 0.0330 | 66 | 59 - 121 | 4542 |
| Hexachlorobenzene | mg/l | 0.0500 | 0.0400 | 80 | 1 - 152 | 3146 |
| Hexachlorobenzene | mg/l | 0.0500 | 0.0370 | 74 | 1 - 152 | 4542 |
| Hexachlorobutadiene | mg/l | 0.0500 | 0.0260 | 52 | 24 - 116 | 3146 |
| Hexachlorobutadiene | mg/l | 0.0500 | 0.0250 | 50 | 24 - 116 | 4542 |
| Hexachlorocyclopentadiene | mg/l | 0.0500 | 0.0230 | 46 | 11 - 90 | 3146 |
| Hexachlorocyclopentadiene | mg/l | 0.0500 | 0.0200 | 40 | 11 - 90 | 4542 |
| Hexachloroethane | mg/l | 0.0500 | 0.0250 | 50 | 40 - 113 | 3146 |
| Hexachloroethane | mg/l | 0.0500 | 0.0220 | 44 | 40 - 113 | 4542 |
| Indeno(1,2,3-cd)pyrene | mg/l | 0.0500 | 0.0450 | 90 | 1 - 171 | 3146 |
| Indeno(1,2,3-cd)pyrene | mg/l | 0.0500 | 0.0250 | 50 | 1 - 171 | 4542 |
| Isophorone | mg/l | 0.0500 | 0.0360 | 72 | 21 - 196 | 3146 |
| Isophorone | mg/l | 0.0500 | 0.0300 | 60 | 21 - 196 | 4542 |
| Naphthalene | mg/l | 0.0500 | 0.0300 | 60 | 21 - 133 | 3146 |
| Naphthalene | mg/l | 0.0500 | 0.0260 | 52 | 21 - 133 | 4542 |
| Nitrobenzene | mg/l | 0.0500 | 0.0330 | 66 | 35 - 180 | 3146 |
| Nitrobenzene | mg/l | 0.0500 | 0.0280 | 56 | 35 - 180 | 4542 |
| N-nitrosodi-n-propylamine | mg/l | 0.0500 | 0.0370 | 74 | 1 - 230 | 3146 |
| N-nitrosodi-n-propylamine | mg/l | 0.0500 | 0.0290 | 58 | 1 - 230 | 4542 |
| N-nitrosodiphenylamine | mg/l | 0.0500 | 0.0360 | 72 | 47 - 119 | 3146 |
| N-nitrosodiphenylamine | mg/l | 0.0500 | 0.0360 | 72 | 47 - 119 | 4542 |
| N-nitrosodimethylamine | mg/l | 0.0500 | 0.0210 | 42 | 22 - 72 | 3146 |
| N-nitrosodimethylamine | mg/l | 0.0500 | 0.0190 | 38 | 22 - 72 | 4542 |
| Phenanthrene | mg/l | 0.0500 | 0.0360 | 72 | 54 - 120 | 3146 |
| Phenanthrene | mg/l | 0.0500 | 0.0350 | 70 | 54 - 120 | 4542 |
| Pyrene | mg/l | 0.0500 | 0.0400 | 80 | 52 - 115 | 3146 |

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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Pyrene | mg/l | 0.0500 | 0.0390 | 78 | 52 - 115 | 4542 |
| Bis(2-ethylhexyl)phthalate | mg/l | 0.0500 | 0.0450 | 90 | 8 - 158 | 3146 |
| Bis(2-ethylhexyl)phthalate | mg/l | 0.0500 | 0.0570 | 114 | 8 - 158 | 4542 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0500 | 0.0270 | 54 | 44 - 142 | 3146 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0500 | 0.0240 | 48 | 44 - 142 | 4542 |
| 2,4,6-Trichlorophenol | mg/l | 0.0500 | 0.0270 | 54 | 37 - 144 | 3146 |
| 2,4,6-Trichlorophenol | mg/l | 0.0500 | 0.0160 | 32 # | 37 - 144 | 4542 |
| 2-Chlorophenol | mg/l | 0.0500 | 0.0290 | 58 | 23 - 134 | 3146 |
| 2-Chlorophenol | mg/l | 0.0500 | 0.0230 | 46 | 23 - 134 | 4542 |
| 2,4-Dichlorophenol | mg/l | 0.0500 | 0.0300 | 60 | 39 - 135 | 3146 |
| 2,4-Dichlorophenol | mg/l | 0.0500 | 0.0240 | 48 | 39 - 135 | 4542 |
| 2,4-Dimethylphenol | mg/l | 0.0500 | 0.0410 | 82 | 32 - 119 | 3146 |
| 2,4-Dimethylphenol | mg/l | 0.0500 | 0.0260 | 52 | 32 - 119 | 4542 |
| 2,4-Dinitrophenol | mg/l | 0.0500 | 0.0180 | 36 | 1 - 191 | 3146 |
| 2,4-Dinitrophenol | mg/l | 0.0500 | 0.0100 | 20 | 1 - 191 | 4542 |
| 2-Methyl-4,6-dinitrophenol | mg/l | 0.0500 | 0.0220 | 44 | 1 - 181 | 3146 |
| 2-Methyl-4,6-dinitrophenol | mg/l | 0.0500 | 0.0110 | 22 | 1 - 181 | 4542 |
| 2-Nitrophenol | mg/l | 0.0500 | 0.0280 | 56 | 29 - 182 | 3146 |
| 2-Nitrophenol | mg/l | 0.0500 | 0.0240 | 48 | 29 - 182 | 4542 |
| 4-Nitrophenol | mg/l | 0.0500 | 0.00900 | 18 | 1 - 132 | 3146 |
| 4-Nitrophenol | mg/l | 0.0500 | 0.00200 | 4 | 1 - 132 | 4542 |
| Pentachlorophenol | mg/l | 0.0500 | 0.0340 | 68 | 14 - 176 | 3146 |
| Pentachlorophenol | mg/l | 0.0500 | 0.0180 | 36 | 14 - 176 | 4542 |
| Phenol | mg/l | 0.0500 | 0.0190 | 38 | 5 - 112 | 3146 |
| Phenol | mg/l | 0.0500 | 0.0170 | 34 | 5 - 112 | 4542 |
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.00 | 2.24 | 112 | 80 - 120 | 1122 |
| Aluminum | mg/l | 2.00 | 2.15 | 108 | 80 - 120 | 1124 |
| Antimony | mg/l | 0.100 | 0.0900 | 90 | 80 - 120 | 1122 |
| Antimony | mg/l | 0.100 | 0.100 | 100 | 80 - 120 | 1124 |
| Arsenic | mg/l | 0.0500 | 0.0530 | 106 | 80 - 120 | 1122 |

Project QC continued . . .

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Laboratory Control Data

| Analyte | units | Known Val | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Arsenic | mg/l | 0.0500 | 0.0540 | 108 | 80 - 120 | 1124 |
| Barium | mg/l | 2.00 | 2.09 | 104 | 80 - 120 | 1122 |
| Barium | mg/l | 2.00 | 2.09 | 104 | 80 - 120 | 1124 |
| Beryllium | mg/l | 0.0500 | 0.0550 | 110 | 80 - 120 | 1122 |
| Beryllium | mg/l | 0.0500 | 0.0590 | 118 | 80 - 120 | 1124 |
| Cadmium | mg/l | 0.0500 | 0.0500 | 100 | 80 - 120 | 1122 |
| Cadmium | mg/l | 0.0500 | 0.0520 | 104 | 80 - 120 | 1124 |
| Calcium | mg/l | 5.00 | 5.17 | 103 | 80 - 120 | 1122 |
| Calcium | mg/l | 5.00 | 5.05 | 101 | 80 - 120 | 1124 |
| Chromium | mg/l | 0.200 | 0.203 | 102 | 80 - 120 | 1122 |
| Chromium | mg/l | 0.200 | 0.207 | 104 | 80 - 120 | 1124 |
| Cobalt | mg/l | 0.500 | 0.507 | 101 | 80 - 120 | 1122 |
| Cobalt | mg/l | 0.500 | 0.508 | 102 | 80 - 120 | 1124 |
| Copper | mg/l | 0.250 | 0.241 | 96 | 80 - 120 | 1122 |
| Copper | mg/l | 0.250 | 0.260 | 104 | 80 - 120 | 1124 |
| Iron | mg/l | 1.00 | 1.01 | 101 | 80 - 120 | 1122 |
| Iron | mg/l | 1.00 | 1.01 | 101 | 80 - 120 | 1124 |
| Lead | mg/l | 0.0500 | 0.0460 | 92 | 80 - 120 | 1122 |
| Lead | mg/l | 0.0500 | 0.0510 | 102 | 80 - 120 | 1124 |
| Magnesium | mg/l | 5.00 | 5.15 | 103 | 80 - 120 | 1122 |
| Magnesium | mg/l | 5.00 | 4.97 | 99 | 80 - 120 | 1124 |
| Manganese | mg/l | 0.500 | 0.492 | 98 | 80 - 120 | 1122 |
| Manganese | mg/l | 0.500 | 0.537 | 107 | 80 - 120 | 1124 |
| Mercury | mg/l | 0.00100 | 0.00100 | 100 | 77 - 123 | 1909 |
| Molybdenum | mg/l | 0.500 | 0.477 | 95 | 80 - 120 | 1122 |
| Molybdenum | mg/l | 0.500 | 0.492 | 98 | 80 - 120 | 1124 |
| Nickel | mg/l | 0.500 | 0.506 | 101 | 80 - 120 | 1122 |
| Nickel | mg/l | 0.500 | 0.518 | 104 | 80 - 120 | 1124 |
| Selenium | mg/l | 0.0500 | 0.0570 | 114 | 80 - 120 | 1122 |
| Selenium | mg/l | 0.0500 | 0.0570 | 114 | 80 - 120 | 1124 |
| Silver | mg/l | 0.0500 | 0.0440 | 88 | 80 - 120 | 1122 |

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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Silver | mg/l | 0.0500 | 0.0490 | 98 | 80 - 120 | 1124 |
| Thallium | mg/l | 0.0500 | 0.0540 | 108 | 80 - 120 | 1122 |
| Thallium | mg/l | 0.0500 | 0.0530 | 106 | 80 - 120 | 1124 |
| Tin | mg/l | 1.00 | 1.04 | 104 | 80 - 120 | 1122 |
| Tin | mg/l | 1.00 | 0.981 | 98 | 80 - 120 | 1124 |
| Zinc | mg/l | 0.500 | 0.498 | 100 | 80 - 120 | 1122 |
| Zinc | mg/l | 0.500 | 0.529 | 106 | 80 - 120 | 1124 |
| Titanium | mg/l | 1.00 | 0.993 | 99 | 80 - 120 | 1122 |
| Titanium | mg/l | 1.00 | 0.966 | 97 | 80 - 120 | 1124 |
| Boron, Total | mg/l | 1.00 | 1.02 | 102 | 80 - 120 | 1122 |
| Boron, Total | mg/l | 1.00 | 0.970 | 97 | 80 - 120 | 1124 |
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 3967 |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 3967 |
| Nitrate/Nitrite-N as N | mg/l | 6.00 | 5.97 | 100 | 90 - 110 | 1423 |
| Fluoride | mg/l | 2.00 | 1.95 | 98 | 90 - 110 | 5221 |
| Sulfate | mg/l | 25.0 | 25.2 | 101 | 88 - 111 | 3225 |
| Apparent Color | Color Unit | 20. | 20. | 100 | - | 1650 |
| Phosphorus | mg/l | 2.00 | 2.01 | 100 | 90 - 110 | 7043 |
| BOD 5 Day | mg/l | 198. | 184. | 93 | 85 - 115 | 1298 |
| Cyanide | mg/l | 0.100 | 0.0960 | 96 | 90 - 110 | 1990 |
| Detergents (MBAS) | mg/l | 0.750 | 0.748 | 100 | 89 - 115 | 1422 |
| Ammonia Nitrogen as N | mg/l | 5.00 | 5.29 | 106 | 90 - 110 | 2925 |
| Total Organic Carbon | mg/l | 200. | 205. | 102 | 87 - 110 | 1507 |
| Total Suspended Solids | mg/l | 100. | 101. | 101 | 81 - 119 | 1357 |
| Sulfite | mg/l | 40.0 | 38.8 | 97 | 90 - 110 | 1891 |
| Sulfide | mg/l | 20.00 | 20.00 | 100 | 90 - 110 | 2920 |
| Chloride | mg/l | 10.0 | 9.97 | 100 | 87 - 113 | 3564 |
| Bromide | mg/l | 10.0 | 10.1 | 101 | 90 - 110 | 1309 |
| Total Nitrogen | mg/l | 2.50 | 2.40 | 96 | 90 - 110 | 7041 |
| Oil & Grease as HEM | mg/l | 40.0 | 35.5 | 89 | 78 - 114 | 5108 |

Project QC continued . . .

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Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/l | 81.0 | 81.0 | 0.00 | 15. | 3967 | 04-A138080 |
| Chemical Oxygen Demand | mg/l | < 3.00 | < 3.00 | N/A | 15. | 3967 | 04-A138165 |
| Fluoride | mg/l | < 0.200 | < 0.200 | N/A | 15. | 5221 | 04-A137023 |
| Sulfate | mg/l | 76.0 | 74.0 | 2.67 | 15. | 3225 | 04-A137026 |
| Apparent Color | Color Unit | < 5. | < 5. | N/A | 15. | 1650 | 04-A137027 |
| Phosphorus | mg/l | < 0.100 | < 0.100 | N/A | 15. | 7043 | 04-A137027 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 1298 | 04-A137027 |
| Cyanide | mg/l | < 0.0050 | < 0.0050 | N/A | 15. | 1990 | 04-A137216 |
| Detergents (MBAS) | mg/l | < 0.0500 | < 0.0500 | N/A | 15. | 1422 | 04-A137023 |
| Ammonia Nitrogen as N | mg/l | 3.16 | 3.30 | 4.33 | 15. | 2925 | 04-A137603 |
| Total Organic Carbon | mg/l | < 1.00 | < 1.00 | N/A | 15. | 1507 | 04-A137056 |
| Total Suspended Solids | mg/l | 14.3 | 14.7 | 2.76 | 15. | 1357 | 04-A137071 |
| Total Suspended Solids | mg/l | 43.0 | 46.0 | 6.74 | 15. | 1357 | 04-A137048 |
| Sulfite | mg/l | < 5.0 | < 5.0 | N/A | 15. | 1891 | 04-A137024 |
| Sulfide | mg/l | < 1.000 | < 1.000 | N/A | 15. | 2920 | 04-A137027 |
| Chloride | mg/l | 2.95 | 2.96 | 0.34 | 15. | 3564 | 04-A137073 |
| Bromide | mg/l | < 1.00 | < 1.00 | N/A | 15. | 1309 | 04-A137027 |
| Total Nitrogen | mg/l | 1.00 | 0.99 | 1.01 | 15. | 7041 | 04-A137027 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|

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| | | | | | |
|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | |
| Acrolein | < 0.00460 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Acrolein | < 0.00460 | mg/l | 6272 | 9/10/04 | 12:45 |
| Acrylonitrile | < 0.00130 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Acrylonitrile | < 0.00130 | mg/l | 6272 | 9/10/04 | 12:45 |
| Benzene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Benzene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Bromoform | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Bromoform | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Bromomethane | < 0.00060 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Bromomethane | < 0.00060 | mg/l | 6272 | 9/10/04 | 12:45 |
| Carbon tetrachloride | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Carbon tetrachloride | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Chlorobenzene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Chlorobenzene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Chloroethane | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Chloroethane | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Chloroform | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Chloroform | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| Chloromethane | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Chloromethane | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Dibromochloromethane | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Dibromochloromethane | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,1-Dichloroethane | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,1-Dichloroethane | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,1-Dichloroethene | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |

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| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 6272 | 9/10/04 | 12:45 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 6272 | 9/10/04 | 12:45 |
| Ethylbenzene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Ethylbenzene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Methylene chloride | < 0.00030 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Methylene chloride | 0.00130 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Tetrachloroethene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Tetrachloroethene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Toluene | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Toluene | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |
| Trichloroethene | < 0.00030 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Trichloroethene | < 0.00030 | mg/l | 6272 | 9/10/04 | 12:45 |
| Vinyl chloride | < 0.00020 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Vinyl chloride | < 0.00020 | mg/l | 6272 | 9/10/04 | 12:45 |
| Xylenes (Total) | < 0.00040 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Xylenes (Total) | < 0.00040 | mg/l | 6272 | 9/10/04 | 12:45 |
| Bromodichloromethane | < 0.00010 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Bromodichloromethane | < 0.00010 | mg/l | 6272 | 9/10/04 | 12:45 |

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| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Trichlorofluoromethane | < 0.00030 | mg/l | 3026 | 9/ 5/04 | 22:16 |
| Trichlorofluoromethane | < 0.00030 | mg/l | 6272 | 9/10/04 | 12:45 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 91. | % Rec | 3026 | 9/ 5/04 | 22:16 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 89. | % Rec | 6272 | 9/10/04 | 12:45 |
| VOA Surrogate, Toluene d8 | 104. | % Rec | 3026 | 9/ 5/04 | 22:16 |
| VOA Surrogate, Toluene d8 | 102. | % Rec | 6272 | 9/10/04 | 12:45 |
| VOA Surrogate, 4-Bromofluorobenzene | 101. | % Rec | 3026 | 9/ 5/04 | 22:16 |
| VOA Surrogate, 4-Bromofluorobenzene | 92. | % Rec | 6272 | 9/10/04 | 12:45 |
| VOA Surrogate, Dibromofluoromethane | 96. | % Rec | 3026 | 9/ 5/04 | 22:16 |
| VOA Surrogate, Dibromofluoromethane | 103. | % Rec | 6272 | 9/10/04 | 12:45 |
| **EXTRACTABLE PARAMETERS** | | | | | |
| Acenaphthene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Acenaphthene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Acenaphthylene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Acenaphthylene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Anthracene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Anthracene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzidine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzidine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzo(a)anthracene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzo(a)anthracene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzo(a)pyrene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzo(a)pyrene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzo(b)fluoranthene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzo(b)fluoranthene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzo(g,h,i)perylene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzo(g,h,i)perylene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Benzo(k)fluoranthene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Benzo(k)fluoranthene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 4-Bromophenylphenylether | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 4-Bromophenylphenylether | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |

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| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Butylbenzylphthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Butylbenzylphthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 4-Chloro-3-methylphenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 4-Chloro-3-methylphenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| bis(2-Chloroethoxy)methane | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| bis(2-Chloroethoxy)methane | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| bis(2-Chloroethyl)ether | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| bis(2-Chloroethyl)ether | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| bis(2-Chloroisopropyl)ether | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| bis(2-Chloroisopropyl)ether | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2-Chloronaphthalene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2-Chloronaphthalene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2-Chlorophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2-Chlorophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 4-Chlorophenylphenylether | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 4-Chlorophenylphenylether | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Chrysene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Chrysene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Dibenz(a,h)anthracene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Dibenz(a,h)anthracene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 1,2-Dichlorobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 1,2-Dichlorobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 1,3-Dichlorobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 1,3-Dichlorobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 1,4-Dichlorobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 1,4-Dichlorobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 3,3'-Dichlorobenzidine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 3,3'-Dichlorobenzidine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,4-Dichlorophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2,4-Dichlorophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Diethylphthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 20***
***Laboratory Receipt Date: 9/ 4/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Diethylphthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,4-Dimethylphenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2,4-Dimethylphenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Dimethylphthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Dimethylphthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Di-n-butylphthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Di-n-butylphthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,4-Dinitrophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2,4-Dinitrophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,4-dinitrotoluene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2,4-dinitrotoluene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,6-Dinitrotoluene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2,6-Dinitrotoluene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Di-n-octylphthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Di-n-octylphthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 1,2-Diphenylhydrazine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 1,2-Diphenylhydrazine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Fluoranthene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Fluoranthene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Fluorene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Fluorene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Hexachlorobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Hexachlorobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Hexachlorobutadiene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Hexachlorobutadiene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Hexachlorocyclopentadiene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Hexachlorocyclopentadiene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Hexachloroethane | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Hexachloroethane | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Indeno(1,2,3-cd)pyrene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Indeno(1,2,3-cd)pyrene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 21***
***Laboratory Receipt Date: 9/ 4/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Isophorone | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Isophorone | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2-Methyl-4,6-dinitrophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2-Methyl-4,6-dinitrophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Naphthalene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Naphthalene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Nitrobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Nitrobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2-Nitrophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 2-Nitrophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 4-Nitrophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 4-Nitrophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| N-nitrosodi-n-propylamine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| N-nitrosodi-n-propylamine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| N-nitrosodiphenylamine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| N-nitrosodiphenylamine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| N-nitrosodimethylamine | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| N-nitrosodimethylamine | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Pentachlorophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Pentachlorophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Phenanthrene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Phenanthrene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Phenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Phenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Pyrene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Pyrene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| Bis(2-ethylhexyl)phthalate | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| Bis(2-ethylhexyl)phthalate | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 1,2,4-Trichlorobenzene | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |
| 1,2,4-Trichlorobenzene | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| 2,4,6-Trichlorophenol | < 0.0100 | mg/l | 3146 | 9/ 7/04 | 17:33 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
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Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| 2,4,6-Trichlorophenol | < 0.0100 | mg/l | 4542 | 9/10/04 | 21:20 |
| **METALS** | | | | | |
| Aluminum | < 0.0210 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Aluminum | < 0.0210 | mg/l | 1124 | 9/11/04 | 15:00 |
| Antimony | < 0.0042 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Antimony | < 0.0042 | mg/l | 1124 | 9/11/04 | 15:00 |
| Arsenic | < 0.0040 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Arsenic | < 0.0040 | mg/l | 1124 | 9/11/04 | 15:00 |
| Barium | < 0.0002 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Barium | < 0.0002 | mg/l | 1124 | 9/11/04 | 15:00 |
| Beryllium | < 0.0012 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Beryllium | < 0.0012 | mg/l | 1124 | 9/11/04 | 15:00 |
| Cadmium | < 0.0004 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Cadmium | < 0.0004 | mg/l | 1124 | 9/11/04 | 15:00 |
| Calcium | 0.0340 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Calcium | < 0.0140 | mg/l | 1124 | 9/11/04 | 15:00 |
| Chromium | < 0.0009 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Chromium | < 0.0009 | mg/l | 1124 | 9/11/04 | 15:00 |
| Cobalt | < 0.0019 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Cobalt | < 0.0019 | mg/l | 1124 | 9/11/04 | 15:00 |
| Copper | < 0.0020 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Copper | < 0.0020 | mg/l | 1124 | 9/11/04 | 15:00 |
| Iron | < 0.0120 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Iron | < 0.0120 | mg/l | 1124 | 9/11/04 | 15:00 |
| Lead | < 0.0014 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Lead | < 0.0014 | mg/l | 1124 | 9/11/04 | 15:00 |
| Magnesium | < 0.0055 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Magnesium | < 0.0055 | mg/l | 1124 | 9/11/04 | 15:00 |
| Manganese | < 0.0010 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Manganese | < 0.0010 | mg/l | 1124 | 9/11/04 | 15:00 |
| Mercury | < 0.00010 | mg/l | 1909 | 9/ 7/04 | 13:18 |

Project QC continued . . .

TestAmerica
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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 23***
***Laboratory Receipt Date: 9/ 4/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Molybdenum | < 0.0015 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Molybdenum | < 0.0015 | mg/l | 1124 | 9/11/04 | 15:00 |
| Nickel | < 0.0023 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Nickel | < 0.0023 | mg/l | 1124 | 9/11/04 | 15:00 |
| Selenium | < 0.0032 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Selenium | 0.0038 | mg/l | 1124 | 9/11/04 | 15:00 |
| Silver | < 0.0008 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Silver | < 0.0008 | mg/l | 1124 | 9/11/04 | 15:00 |
| Thallium | < 0.0098 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Thallium | 0.0028 | mg/l | 1124 | 9/11/04 | 15:00 |
| Tin | < 0.0025 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Tin | < 0.0025 | mg/l | 1124 | 9/11/04 | 15:00 |
| Zinc | < 0.0019 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Zinc | < 0.0019 | mg/l | 1124 | 9/11/04 | 15:00 |
| Titanium | < 0.0004 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Titanium | < 0.0004 | mg/l | 1124 | 9/11/04 | 15:00 |
| Boron, Total | < 0.0015 | mg/l | 1122 | 9/ 7/04 | 16:55 |
| Boron, Total | < 0.0015 | mg/l | 1124 | 9/11/04 | 15:00 |
| **MISC PARAMETERS** | | | | | |
| Chemical Oxygen Demand | < 3.00 | mg/l | 3967 | 9/10/04 | 11:41 |
| Chemical Oxygen Demand | < 3.00 | mg/l | 3967 | 9/10/04 | 11:41 |
| Nitrate/Nitrite-N as N | < 0.100 | mg/l | 1423 | 9/ 4/04 | 17:24 |
| Fluoride | < 0.200 | mg/l | 5221 | 9/10/04 | 8:50 |
| Sulfate | < 1.00 | mg/l | 3225 | 9/ 8/04 | 2:51 |
| Apparent Color | < 5. | Color Unit | 1650 | 9/ 5/04 | 12:35 |
| Phosphorus | < 0.100 | mg/l | 7043 | 9/13/04 | 16:20 |
| BOD 5 Day | < 2.00 | mg/l | 1298 | 9/ 9/04 | 22:00 |
| Cyanide | < 0.0500 | mg/l | 1990 | 9/ 7/04 | 12:16 |
| Detergents (MBAS) | < 0.0500 | mg/l | 1422 | 9/ 4/04 | 17:28 |
| Hardness | < 2.50 | mg/L | 1122 | 9/ 7/04 | 16:55 |
| Hardness | < 2.50 | mg/L | 1124 | 9/11/04 | 15:00 |

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: COLEMAN KPDES***
***Page: 24***
***Laboratory Receipt Date: 9/ 4/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Ammonia Nitrogen as N | < 0.100 | mg/l | 2925 | 9/ 9/04 | 14:39 |
| Total Organic Carbon | < 1.00 | mg/l | 1507 | 9/ 4/04 | 18:23 |
| Total Suspended Solids | < 1.0 | mg/l | 1357 | 9/ 5/04 | 8:30 |
| Total Suspended Solids | < 1.0 | mg/l | 1357 | 9/ 5/04 | 8:30 |
| Sulfite | < 3.0 | mg/l | 1891 | 9/ 6/04 | 23:36 |
| Sulfide | < 1.000 | mg/l | 2920 | 9/ 8/04 | 22:00 |
| Chloride | < 1.00 | mg/l | 3564 | 9/ 9/04 | 18:09 |
| Bromide | < 1.00 | mg/l | 1309 | 9/ 8/04 | 17:34 |
| Total Nitrogen | 0.02 | mg/l | 7041 | 9/13/04 | 16:11 |
| Oil & Grease as HEM | < 5.00 | mg/l | 5108 | 9/10/04 | 18:11 |

End of Report for Project 388365

# WARNER LABORATORIES/EAC
INCORPORATED

Drinking Water
Cert# TN03073

Consulting Chemists/Environmental Consultants
ESTABLISHED 1960


Test America
Ashley Morris/Jennifer Chapman
2960 Foster Creighton Dr.
Nashville, TN 37204

Phone: 726-0177 Fax: 726-3404 September 9, 2004

## LABORATORY #59919

**PROJECT #388365**

Bacteriological evaluation of five wastewater samples collected on 9/3/04, delivered to laboratory on 9/7/04 at 10:20 a.m.

| SAMPLE IDENTIFICATION | TIME SAMPLED | FECAL COLIFORM |
|---|---|---|
| IDENTIFICATION # 04a137023 | 1150 | 16 CFU/100 mL |
| IDENTIFICATION # 04a137024 | 1000 | <2 CFU/100 mL |
| IDENTIFICATION # 04a137025 | 1100 | 4 CFU/100 mL |
| IDENTIFICATION # 04a137026 | 1130 | 10 CFU/100 mL |
| IDENTIFICATION # 04a137027 | 1020 | <2 CFU/100 mL |
| PRE BLANK #1 | | NEGATIVE |
| POST BLANK #2 | | NEGATIVE |

Test initiated 9-7-04 @ 5:20 p.m. by P. Williams.
Test completed 9-8-04 @ 4:40 p.m. by P. Williams.

Test performed according to method 9222, Membrane Filter Technique for Coliform Group, as published in Standard Methods for the Examination of Water and Wastewater, as published by the American Public Health Association.

Respectfully Submitted,

Warner Laboratories, Inc.

[illegible]

ANALYTICAL WORKSHEET
TOTAL FECAL COLIFORM

Project # / Item
Date Received
Date Time Analysis Started 9/7 5:20 pm
Date Time Analysis Completed 9/8 4:40 pm

| | | |
|---|---|---|
| #1 04a137023 — | 50 ml 0<br>10 ml 1<br>1 ml 0 | 16 cfu /100 ml |
| #2 04a137024 — | 50 ml 0<br>10 ml 0<br>1 ml 0 | < 2 cfu /100 ml |
| #3 04a137025 — | 50 ml 2<br>10 ml 0<br>1 ml 0 | 4 cfu /100 ml |
| #4 04a137026 — | 50 ml 5<br>10 ml 0<br>1 ml 0 | 10 cfu /100 ml |
| #5 04a137027 — | 50 ml 0<br>10 ml 0<br>1 ml 0 | < 2 cfu /100 ml |

Positive Control 0
Negative Control 0

TestAmerica INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

# CHAIN OF CUSTODY RECORD

Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: TestAmerica Inc.

Address: 2960 Foster Creighton Drive

City/State/Zip: Nashville, TN 37204

Report To: Ashley Morris/Jennifer Chapman

Project Manager: Jennifer Chapman

P.O. #

Telephone Number: 615-301-5041 Fax No.: 615-726-3404

TA Quote #:

Sampler Name: (Print)

Project ID:

Sampler Signature:

Project #: 388365

59919

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red Label) | HCl (Blue Label) | NaOH ( Orange Label) | $H_2SO_4$ Plastic (Yellow Label) | $H_2SO_4$ Glass(Yellow Label) | None (Black Label) | Other ( Specify) | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify) | Analyze For: Fecal Coliform | RUSH TAT (Pre-Schedule) | Standard TAT | Fax results | Send COC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04a137023 | 9/3/2004 | 11:50 | 1 | x | | | | | | | | | | | | X | | | | | x | | x | | |
| 04a137024 | 9/3/2004 | 10:00 | 1 | x | | | | | | | | | | | | X | | | | | x | | x | | |
| 04a137025 | 9/3/2004 | 11:00 | 1 | x | | | | | | | | | | | | X | | | | | x | | x | | |
| 04a137026 | 9/3/2004 | 11:30 | 1 | x | | | | | | | | | | | | X | | | | | x | | x | | |
| 04a137027 | 9/3/2004 | 10:20 | 1 | x | | | | | | | | | | | | X | | | | | x | | x | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

Method of Shipment: FEDEX

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| Jennifer Chapman | 7-Sep-04 | 9 44 | | | |
| Relinquished by | Date | Time | Received by TestAmerica | Date | Time |
| Shelley L. Mack | 9-1-04 | 10:30 a.m. | | | |

Laboratory Comments:

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

TestAmerica
ANALYTICAL TESTING CORPORATION

**Nashville Division**


**COOLER RECEIPT FORM** **BC#**

**Client Name :** Western KY

**Cooler Received/Opened On:** 8/26/04 **Accessioned By:** Mark Beasley

M. Bl
**Log-in Personnel Signature**

1. **Temperature of Cooler when triaged:** 1.8 **Degrees Celsius**
2. **Were custody seals on outside of cooler?**..... (YES)...NO...NA
   a. **If yes, how many, what kind and where:** 2 Front
3. **Were custody seals on containers and intact?**..... (NO)...YES...NA
4. **Were the seals intact, signed, and dated correctly?**..... (YES)...NO...NA
5. **Were custody papers inside cooler?**..... (YES)...NO...NA
6. **Were custody papers properly filled out (ink, signed, etc)?**..... (YES)...NO...NA
7. **Did you sign the custody papers in the appropriate place?**..... (YES)...NO...NA
8. **What kind of packing material used?** (Bubblewrap) Peanuts Vermiculite Other None
9. **Cooling process:** (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. **Did all containers arrive in good condition ( unbroken)?**..... (YES)...NO...NA
11. **Were all container labels complete (#, date, signed, pres., etc)?**..... (YES)...NO...NA
12. **Did all container labels and tags agree with custody papers?**..... (YES)...NO...NA
13. **Were correct containers used for the analysis requested?**..... (YES)...NO...NA
14. a. **Were VOA vials received?**..... (YES)...NO...NA
    b. **Was there any observable head space present in any VOA vial?**..... (NO)...YES...NA
15. **Was sufficient amount of sample sent in each contalner?**..... (YES)...NO...NA
16. **Were correct preservatives used?**..... (YES)...NO...NA

    **If not, record standard ID of preservative used here**_____
17. **Was residual chlorine present?**..... (NO)...YES...NA
18. **Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:**

| 9597 | 9635 | | | | |
|---|---|---|---|---|---|
| UPS | Velocity | Airborne | Route | Off-street | (Fedex) Misc. |

19. **If a Non-Conformance exists, see attached or comments below:**

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

**387287**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: M. Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name)
Sampler Signature: Michael Galbraith

Project Name: Wilson KPDES-AP
Project #:
Site/Location ID: 002 NSSP  State: KY
Report To: M. Galbraith
Invoice To: Attn: accounting
Quote #: 081604-212199  PO#:

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G (Grab) C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Oil & Grease | Surfactants | Oil & Grease | TPH-DRO (Ext) | Sulfide | Metals | TDC | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 002 NSSP | 8-25-04 | 1115 | G | | | | | | | | X | | X | | | | | | | 132 | 117 | 1000 ml x2 |
| 002 NSSP | | | | | | | | | | | X | | | X | | | | | | | | 500 ml |
| 002 NSSP | | | | | | | | | X | | | | | | X | | | | | | | glass |
| 002 NSSP | | | | | | | | | X | | | | | | | X | | | | | | |
| 002 NSSP | | | | | | | | X | | | | | | | | X | | | | | | |
| 002 NSSP | | | | | | X | | | | | | | | | | | X | | | | | |
| 002 NSSP | | | | | | | X | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions: run full list parameters of Quote

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 1.8
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 8-25-04 | 1600 | | 8/26/04 | 8:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

**387287**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
City/State/Zip Code: Henderson Ky 42419
Project Manager: M Galbraith
Telephone Number: 270-844-6036  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES-AP
Project #:
Site/Location ID: 006 CTB  State: KY
Report To: M Galbraith
Invoice To: Attn: Accounting
Quote #: 081604-212-1990  PO#:

**TAT**
___ Standard
___ Rush (surcharges may apply)
**Date Needed:**
**Fax Results:** Y (N)

**SAMPLE ID** | Date Sampled | Time Sampled | G = Grab C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Uppers and. | Surfactants | Oil & Grease | Nit Phos COD | sulfide | metals | TOC | 132 | 118 | **REMARKS**

| SAMPLE ID | Date Sampled | Time Sampled | G/C | Field Filtered | Matrix | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other | Uppers and. | Surfactants | Oil & Grease | Nit Phos COD | sulfide | metals | TOC | 132 | 118 | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006 CTB | 8-25 | 1150 | G | | | | | | | | X | | X | | | | | | | MB | | 1000 ml x2 |
| 006 CTB | | | | | | | | | | | X | | | X | | | | | | | | 500 ml |
| 006 CTB | | | | | | | | | X | | | | | | X | | | | | | | glass |
| 006 CTB | | | | | | | | | X | | | | | | | X | | | | | | |
| 006 CTB | | | | | | | | X | | | | | | | | | X | | | | | |
| 006 CTB | | | | | | | X | | | | | | | | | | | X | | | | |
| 006 CTB | | | | | | | | X | | | | | | | | | | | X | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:** run full list of parameters of quote

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 8-25-14 | 1600 | MB | 8/26/14 | 8:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

# TestAmerica
ANALYTICAL TESTING CORPORATION

**387287**

2960 Foster Creighton Drive ● Nashville, TN 37204
800-765-0980 ● 615-726-3404 Fax

**Western Kentucky Energy**
**145 Main Street P O box 1518, Henderson, KY 42419-1518**
**270-844-6030 (fax) 270-844-6023 (Email) mike.galbraith@lgeenergy.com**
**Project: Wilson KPDES Additional Parameters**
**Quote #: 081604-212-199** *[reference on COC for correct pricing]*

**Mike Galbraith**
**Client #: 8407**
**Bid Date: August 16, 2004**
**Start Date: TBD**
**Valid Until: December 31, 2004**

| Parameters | Method | Matrix | Per Sample | Qty | Extended |
|---|---|---|---|---|---|
| Biological Oxygen Demand | 405.1 | Liquid | 24.00 | 8 | 192.00 |
| Chemical Oxygen Demand | 410.4 M | Liquid | 20.00 | 8 | 160.00 |
| Total Organic Carbon | 415.1 | Liquid | 20.00 | 8 | 160.00 |
| Total Suspended Solids | 160.2 | Liquid | 8.00 | 8 | 64.00 |
| Ammonia | 350.1 | Liquid | 16.00 | 8 | 128.00 |
| Bromide | 300 | Liquid | 20.00 | 8 | 160.00 |
| Chloride | 325.2 | Liquid | 12.00 | 8 | 96.00 |
| Total Residual Chlorine | 330.5 | Liquid | 8.00 | 8 | 64.00 |
| Color | 110.2 | Liquid | 8.00 | 8 | 64.00 |
| Fecal Coliform | | Liquid | 40.00 | 8 | 320.00 |
| Fluoride | 340.2 | Liquid | 16.00 | 8 | 128.00 |
| Total Hardness | 130.2 | Liquid | 8.00 | 8 | 64.00 |
| Nitrate-Nitrite | 353.2 | Liquid | 20.00 | 8 | 160.00 |
| Total Nitrogen | SM 4500 N-A | Liquid | 48.00 | 8 | 384.00 |
| Oil and Grease | 1664 | Liquid | 32.00 | 8 | 256.00 |
| Phosphorous | 365.4 | Liquid | 20.00 | 8 | 160.00 |
| Sulfate | 375.4 | Liquid | 24.00 | 8 | 192.00 |
| Sulfide | 376.1 | Liquid | 16.00 | 8 | 128.00 |
| Sulfite | 377.1 | Liquid | 16.00 | 8 | 128.00 |
| Surfactants | 425.1 | Liquid | 20.00 | 8 | 160.00 |
| Total Aluminium | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Barium | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Boron | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Cobalt | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Iron | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Magnesium | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Molybdenum | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Manganese | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Tin | 6010 | Liquid | 10.00 | 8 | 80.00 |
| Total Titanium | 6010 | Liquid | 10.00 | 8 | 80.00 |
| | | | Est. Project Total | | $ 3,968.00 |

- Fecal Coliform is subcontract parametcr and must verify hold time bcfore pursuing with TestAmerica
- Standard turn around time of 7-10 business days and Level II documentation

**Please call the lab ahead of time to schedule rush or documentation analysis.**

| Expedite Surcharges: | TCLP Surcharges: | Documentation Surcharges: |
|---|---|---|
| Next Day TAT = 100% | 3 Day TAT = 100% | Level I & II = no surcharge |
| 2 Day TAT = 50% | 4 Day TAT = 50% | Level III or IV = 25% |
| 3 Day TAT = 25% | 5 Day TAT = 25% | |

**Turn Around Time begins the day after samples arrive at the laboratory.**

TestAmerica
INCORPORATED

# Sample NonConformance/COC Revision Form

| | | | | | |
|---|---|---|---|---|---|
| **Initiated by:** | Mbeasley | **Phone:** | 2708446030 | NC Closed | ☑ |
| **Client Name:** | WESTERN KY EN | **Sample Range:** | 132117-18 | Date Closed | 8/26/2004 |
| **Client Contact:** | TOM SHAW | **SDG:** | 387287 | | |
| **Client Account:** | 8407 | **Analyst:** | 5 | | |
| **Date Created:** | 8/26/2004 | **Supervisor:** | Paul Buckingham | | |
| **NC #:** | 132118 | **NC Type:** | NC Analytical 1 | | |
| **Project Name:** | Wilson KPDES-AP | **Terminal Manager:** | | | |
| **Project Number:** | | | | | |
| **Project Origin** | KY | | | | |
| **Regulatory :** | | | | | |

| | | | |
|---|---|---|---|
| **Process:** | Subcontract Samples? | **Corrected By:** | Jennifer Ann Chap |
| **Action:** | Corrected action not chosen | **Closed:** ☑ | jachapman |

| | | | |
|---|---|---|---|
| **Process:** | Other NC/Process: See Comment Section Below | **Corrected By:** | Jennifer Ann Chap |
| **Action:** | Corrected action not chosen | **Closed:** ☑ | jachapman |

**Comments:**

Comment added by: Mbeasley on 8/26/2004 1:39:42 PM
NC closed with out comments

**********

Comment added by: jachapman on 8/26/2004 1:29:29 PM
Sent to Warner for Fecal analysis.

**********

Comment added by: jachapman on 8/26/2004 1:29:07 PM
Per Quote is fine.

**********

Comment added by: Mbeasley on 8/26/2004 12:21:55 PM
Sub out fecal coliform

**********

These are tagged as wastewaters per quote

TestAmerica
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800-765-0980 • 615-726-3404 Fax

9/ 1/04 CASE NARRATIVE

***WESTERN KY ENERGY 8407***
***TOM SHAW***
***P.O. BOX 1518***
***HENDERSON, KY 42419-1518***

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: WILSON KPDES-AP
Project Number: .
Laboratory Project Number: 387287.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.



| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| 002 NSSP | 04-A132117 | |
| 006 LTB | 04-A132118 | |

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| Sample Identification | Lab Number | Collection Date |
|---|---|---|

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Roxanne L Connor Report Date: 9/ 1/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 90038

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-AP
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A132117
Sample ID: 002 NSSP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/26/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/26/04 | 22:15 | | | |
| BOD 5 Day | 7.02 | mg/l | 2.00 | 1 | 8/31/04 | 22:05 | J. Hill | 405.1 | 3084 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.292 | mg/l | 0.100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Barium | 0.0650 | mg/l | 0.0100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Calcium, total | 618. | mg/l | 10.0 | 10 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Iron, total | 0.358 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Magnesium | 27.5 | mg/l | 1.00 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Manganese | 0.290 | mg/l | 0.0150 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Molybdenum | 1.61 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Boron | 7.69 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 9/ 1/04 | 15:10 | S. Overton | 410.4 Mod | 5558 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 19:50 | W. Choate | 353.2 | 3330 |
| Fluoride | 2.26 | mg/l | 0.200 | 1 | 8/27/04 | 11:00 | T. Beverly | 340.2MOD | 3505 |
| Sulfate | 1780 | mg/l | 50.0 | 50 | 8/27/04 | 10:05 | M.Shockley | 375.4 | 3633 |
| Chlorine, residual | 0.146 | mg/l | 0.0200 | 1 | 8/26/04 | 16:04 | T. Beverly | 330.5 | 3141 |
| Apparent Color | ND | Color Unit | | | 8/27/04 | 14:01 | T. Beverly | 110.2 | 3783 |
| Phosphorus | 0.139 | mg/l | 0.100 | 1 | 8/30/04 | 16:12 | K.Saiyasak | 365.4 | 3444 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A132117
Sample ID: 002 NSSP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/26/04 | 20:31 | J. Hill | 425.1 | 3174 |
| Hardness | 1660 | mg/l | | | 8/30/04 | 15:18 | G.McCord | SM2340B | 4640 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/30/04 | 10:05 | K.Saiyasak | 350.1M | 4277 |
| Total Organic Carbon | 9.73 | mg/l | 1.00 | 1 | 8/26/04 | 12:51 | S. Prayter | 415.1 | 2811 |
| Total Suspended Solids | 5.20 | mg/l | 4.00 | 4 | 8/26/04 | 23:30 | J. Hill | 160.2 | 3304 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/26/04 | 19:20 | W. Choate | 377.1 | 3343 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/28/04 | 21:00 | K.Saiyasak | 376.1 | 5001 |
| Chloride | 166. | mg/l | 10.0 | 10 | 8/26/04 | 23:25 | W. Choate | 325.2 | 3384 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/26/04 | 17:11 | G. Baun | 300 | 2712 |
| Total Nitrogen | 3.17 | mg/l | 0.100 | 1 | 8/28/04 | 13:28 | K.Saiyasak | SM-4500 | 3443 |
| Oil & Grease as HEM | ND | mg/l | 5.10 | 1 | 8/31/04 | 14:07 | M. Ricke | 1664A | 3217 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

TestAmerica
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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-AP
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A132118
Sample ID: 006 LTB
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/26/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/26/04 | 22:15 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/31/04 | 22:05 | J. Hill | 405.1 | 3084 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.692 | mg/l | 0.100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Barium | 0.282 | mg/l | 0.0100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Calcium, total | 376. | mg/l | 10.0 | 10 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Iron, total | 0.677 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Magnesium | 74.0 | mg/l | 1.00 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Manganese | 0.139 | mg/l | 0.0150 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Boron | 1.34 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 30.0 | mg/l | 3.00 | 1 | 9/ 1/04 | 15:10 | S. Overton | 410.4 Mod | 5558 |
| Nitrate/Nitrite-N as N | 8.53 | mg/l | 0.100 | 1 | 8/26/04 | 19:50 | W. Choate | 353.2 | 3330 |
| Fluoride | 1.14 | mg/l | 0.200 | 1 | 8/27/04 | 11:00 | T. Beverly | 340.2MOD | 3505 |
| Sulfate | 970. | mg/l | 50.0 | 50 | 8/27/04 | 10:05 | M.Shockley | 375.4 | 3633 |
| Chlorine, residual | 0.0360 | mg/l | 0.0200 | 1 | 8/26/04 | 16:04 | T. Beverly | 330.5 | 3141 |
| Apparent Color | ND | Color Unit | | | 8/27/04 | 14:01 | T. Beverly | 110.2 | 3783 |
| Phosphorus | 0.427 | mg/l | 0.100 | 1 | 8/30/04 | 16:12 | K.Saiyasak | 365.4 | 3444 |

Sample report continued . . .

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ANALYTICAL TESTING CORPORATION

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***ANALYTICAL REPORT***

Laboratory Number: 04-A132118
Sample ID: 006 LTB
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | 0.0871 | mg/l | 0.0500 | 1 | 8/26/04 | 20:31 | J. Hill | 425.1 | 3174 |
| Hardness | 1240 | mg/l | | | 8/30/04 | 15:18 | G.McCord | SM2340B | 4640 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/30/04 | 10:05 | K.Saiyasak | 350.1M | 4277 |
| Total Organic Carbon | 13.3 | mg/l | 1.00 | 1 | 8/26/04 | 12:51 | S. Prayter | 415.1 | 2811 |
| Total Suspended Solids | 21.2 | mg/l | 4.00 | 4 | 8/26/04 | 23:30 | J. Hill | 160.2 | 3304 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/26/04 | 19:20 | W. Choate | 377.1 | 3343 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/28/04 | 21:00 | K.Saiyasak | 376.1 | 5001 |
| Chloride | 85.0 | mg/l | 5.00 | 5 | 8/26/04 | 23:26 | W. Choate | 325.2 | 3384 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/26/04 | 17:11 | G. Baun | 300 | 2712 |
| Total Nitrogen | 9.72 | mg/l | 0.100 | 1 | 8/28/04 | 13:28 | K.Saiyasak | SM-4500 | 3443 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/31/04 | 14:07 | M. Ricke | 1664A | 3217 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 1***
***Laboratory Receipt Date: 8/26/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| Aluminum | mg/l | 7.11 | 9.77 | 2.00 | 133# | 70. - 130. | 4640 | '132619 |
| Barium | mg/l | 0.0200 | 2.04 | 2.00 | 101 | 70. - 130. | 4640 | '132619 |
| Cobalt | mg/l | < 0.0200 | 0.516 | 0.500 | 103 | 70. - 130. | 4640 | '132619 |
| Iron, total | mg/l | 0.511 | 1.49 | 1.00 | 98 | 70. - 130. | 4640 | '132619 |
| Manganese | mg/l | < 0.0150 | 0.510 | 0,500 | 102 | 70. - 130. | 4640 | '132619 |
| Molybdenum | mg/l | < 0.0500 | 0.528 | 0.500 | 106 | 70. - 130. | 4640 | '132619 |
| Tin | mg/l | < 0.0500 | 1.18 | 1.00 | 118 | 70. - 130. | 4640 | '132619 |
| Titanium | mg/l | < 0.0500 | 0.978 | 1.00 | 98 | 70. - 130. | 4640 | '132619 |
| Boron | mg/l | < 0.0500 | 1.12 | 1.00 | 112 | 70. - 130. | 4640 | '132619 |
| **MISC PARAMETERS** | | | | | | | | |
| Chemical Oxygen Demand | mg/l | 27.0 | 77.0 | 50.0 | 100 | 90. - 110. | 5558 | 04-A132117 |
| Chemical Oxygen Demand | mg/l | 9.00 | 50.0 | 50.0 | 82# | 90. - 110. | 5558 | 04-A132678 |
| Fluoride | mg/l | 0.310 | 2.46 | 2.00 | 108 | 79. - 125. | 3505 | 04-A131996 |
| Phosphorus | mg/l | 0.196 | 2.14 | 2.00 | 97 | 80. - 120. | 3444 | 04-A130704 |
| Detergents (MBAS) | mg/l | < 0.0500 | 0.744 | 0.750 | 99 | 71. - 117. | 3174 | 04-A132117 |
| Ammonia Nitrogen as N | mg/l | 0.360 | 5.42 | 5.00 | 101 | 90. - 110. | 4277 | 04-A132124 |
| Total Organic Carbon | mg/l | 6.01 | 28.2 | 20.0 | 111 | 71. - 140. | 2811 | 04-A131905 |
| Sulfite | mg/l | < 5.0 | 19.6 | 20.0 | 98 | 20. - 165. | 3343 | 04-A132117 |
| Sulfide | mg/l | < 1.000 | 19.90 | 20.00 | 100 | 63. - 127. | 5001 | 04-A132117 |
| Chloride | mg/l | 9.31 | 18.5 | 10.0 | 92 | 71. - 123. | 3384 | 04-A131706 |
| Total Nitrogen | mg/l | 4.59 | 6.64 | 2.50 | 82# | 90. - 110. | 3443 | 04-A130704 |
| Oil & Grease as HEM | mg/l | < 5.00 | 38.7 | 40.0 | 97 | 78. - 114. | 3217 | blank |

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 2***
***Laboratory Receipt Date: 8/26/04***

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 9.77 | 9.31 | 4.82 | 20 | 4640 |
| Barium | mg/l | 2.04 | 1.98 | 2.99 | 20 | 4640 |
| Calcium, total | mg/l | 5.13 | 4.91 | 4.38 | 20 | 4640 |
| Cobalt | mg/l | 0.516 | 0.504 | 2.35 | 20 | 4640 |
| Iron, total | mg/l | 1.49 | 1.46 | 2.03 | 20 | 4640 |
| Magnesium | mg/l | 0.911 | < 1.00 | 9.31 | 20 | 4640 |
| Manganese | mg/l | 0.510 | 0.500 | 1.98 | 20 | 4640 |
| Molybdenum | mg/l | 0.528 | 0.520 | 1.53 | 20 | 4640 |
| Tin | mg/l | 1.18 | 1.14 | 3.45 | 20 | 4640 |
| Titanium | mg/l | 0.978 | 0.956 | 2.28 | 20 | 4640 |
| Boron | mg/l | 1.12 | 1.10 | 1.80 | 20 | 4640 |
| Nitrate/Nitrite-N as N | mg/l | 5.88 | 5.80 | 1.37 | 20 | 3330 |
| Fluoride | mg/l | 2.46 | 2.36 | 4.15 | 20 | 3505 |
| Phosphorus | mg/l | 2.14 | 2.17 | 1.39 | 20 | 3444 |
| Detergents (MBAS) | mg/l | 0.744 | 0.733 | 1.49 | 20 | 3174 |
| Total Organic Carbon | mg/l | 28.2 | 28.0 | 0.71 | 20 | 2811 |
| Sulfite | mg/l | 19.6 | 19.6 | 0.00 | 20 | 3343 |
| Sulfide | mg/l | 19.90 | 19.80 | 0.50 | 20 | 5001 |
| Chloride | mg/l | 18.5 | 17.9 | 3.30 | 20 | 3384 |
| Oil & Grease as HEM | mg/l | 38.7 | 38.0 | 1.83 | 20 | 3217 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 3***
***Laboratory Receipt Date: 8/26/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.00 | 2.09 | 104 | 85 - 115 | 4640 |
| Barium | mg/l | 2.00 | 2.06 | 103 | 85 - 115 | 4640 |
| Calcium, total | mg/l | 5.00 | 5.14 | 103 | 85 - 115 | 4640 |
| Cobalt | mg/l | 0.500 | 0.499 | 100 | 85 - 115 | 4640 |
| Iron, total | mg/l | 1.00 | 1.02 | 102 | 85 - 115 | 4640 |
| Magnesium | mg/l | 5.00 | 5.04 | 101 | 85 - 115 | 4640 |
| Manganese | mg/l | 0.500 | 0.499 | 100 | 85 - 115 | 4640 |
| Molybdenum | mg/l | 0.500 | 0.486 | 97 | 85 - 115 | 4640 |
| Tin | mg/l | 1.00 | 1.05 | 105 | 85 - 115 | 4640 |
| Titanium | mg/l | 1.00 | 0.974 | 97 | 85 - 115 | 4640 |
| Boron | mg/l | 1.00 | 0.980 | 98 | 85 - 115 | 4640 |
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 5558 |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 5558 |
| Nitrate/Nitrite-N as N | mg/l | 6.00 | 6.07 | 101 | 90 - 110 | 3330 |
| Fluoride | mg/l | 2.00 | 1.93 | 96 | 90 - 110 | 3505 |
| Sulfate | mg/l | 25.0 | 25.5 | 102 | 88 - 111 | 3633 |
| Chlorine, residual | mg/l | 0.200 | 0.194 | 97 | 90 - 110 | 3141 |
| Apparent Color | Color Unit | 20. | 20. | 100 | - | 3783 |
| Phosphorus | mg/l | 2.00 | 1.98 | 99 | 90 - 110 | 3444 |
| BOD 5 Day | mg/l | 198. | 187. | 94 | 85 - 115 | 3084 |
| Detergents (MBAS) | mg/l | 0.750 | 0.732 | 98 | 89 - 115 | 3174 |
| Ammonia Nitrogen as N | mg/l | 5.00 | 4.74 | 95 | 90 - 110 | 4277 |
| Total Organic Carbon | mg/l | 200. | 192. | 96 | 87 - 110 | 2811 |
| Total Suspended Solids | mg/l | 100. | 102. | 102 | 81 - 119 | 3304 |
| Sulfite | mg/l | 40.0 | 39.6 | 99 | 90 - 110 | 3343 |
| Sulfide | mg/l | 20.00 | 20.00 | 100 | 90 - 110 | 5001 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 4***
***Laboratory Receipt Date: 8/26/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Chloride | mg/l | 10.0 | 9.77 | 98 | 87 - 113 | 3384 |
| Bromide | mg/l | 10.0 | 10.5 | 105 | 90 - 110 | 2712 |
| Total Nitrogen | mg/l | 2.50 | 2.34 | 94 | 90 - 110 | 3443 |
| Oil & Grease as HEM | mg/l | 40.0 | 37.2 | 93 | 78 - 114 | 3217 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/l | 83.0 | 83.0 | 0.00 | 15. | 5558 | 04-A132676 |
| Chemical Oxygen Demand | mg/l | 1210 | 1210 | 0.00 | 15. | 5558 | 04-A133681 |
| Fluoride | mg/l | 2.26 | 2.18 | 3.60 | 15. | 3505 | 04-A132117 |
| Sulfate | mg/l | 1780 | 1680 | 5.78 | 15. | 3633 | 04-A132117 |
| Apparent Color | Color Unit | < 5. | < 5. | N/A | 15. | 3783 | 04-A132117 |
| Phosphorus | mg/l | 4.71 | 4.24 | 10.50 | 15. | 3444 | 04-A132386 |
| BOD 5 Day | mg/l | 71.7 | 70.0 | 2.40 | 15. | 3084 | 04-A132105 |
| Detergents (MBAS) | mg/l | 0.229 | 0.223 | 2.65 | 15. | 3174 | 04-A132105 |
| Ammonia Nitrogen as N | mg/l | 0.230 | 0.210 | 9.09 | 15. | 4277 | 04-A132644 |
| Total Organic Carbon | mg/l | 13.3 | 13.6 | 2.23 | 15. | 2811 | 04-A132118 |
| Total Suspended Solids | mg/l | 12.4 | 14.0 | 12.12 | 15. | 3304 | 04-A132411 |
| Total Suspended Solids | mg/l | < 2.0 | < 2.0 | N/A | 15. | 3304 | 04-A132484 |
| Sulfite | mg/l | < 5.0 | < 5.0 | N/A | 15. | 3343 | 04-A132118 |
| Sulfide | mg/l | < 1.000 | < 1.000 | N/A | 15. | 5001 | 04-A132676 |
| Chloride | mg/l | 520. | 525. | 0.96 | 15. | 3384 | 04-A132441 |
| Bromide | mg/l | < 1.00 | < 1.00 | N/A | 15. | 2712 | 04-A132118 |
| Total Nitrogen | mg/l | 9.72 | 9.67 | 0.52 | 15. | 3443 | 04-A132118 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 5***
***Laboratory Receipt Date: 8/26/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **METALS** | | | | | |
| Aluminum | < 0.0210 | mg/l | 4640 | 8/30/04 | 15:18 |
| Barium | < 0.0002 | mg/l | 4640 | 8/30/04 | 15:18 |
| Calcium, total | < 0.0140 | mg/l | 4640 | 8/30/04 | 15:18 |
| Cobalt | < 0.0019 | mg/l | 4640 | 8/30/04 | 15:18 |
| Iron, total | < 0.0120 | mg/l | 4640 | 8/30/04 | 15:18 |
| Magnesium | < 0.0055 | mg/l | 4640 | 8/30/04 | 15:18 |
| Manganese | < 0.0010 | mg/l | 4640 | 8/30/04 | 15:18 |
| Molybdenum | < 0.0015 | mg/l | 4640 | 8/30/04 | 15:18 |
| Tin | < 0.0025 | mg/l | 4640 | 8/30/04 | 15:18 |
| Titanium | < 0.0004 | mg/l | 4640 | 8/30/04 | 15:18 |
| Boron | < 0.0015 | mg/l | 4640 | 8/30/04 | 15:18 |
| **MISC PARAMETERS** | | | | | |
| Chemical Oxygen Demand | < 3.00 | mg/l | 5558 | 9/ 1/04 | 15:10 |
| Chemical Oxygen Demand | < 3.00 | mg/l | 5558 | 9/ 1/04 | 15:10 |
| Nitrate/Nitrite-N as N | < 0.100 | mg/l | 3330 | 8/26/04 | 19:41 |
| Fluoride | < 0.200 | mg/l | 3505 | 8/27/04 | 11:00 |
| Sulfate | < 1.00 | mg/l | 3633 | 8/27/04 | 10:05 |
| Chlorine, residual | < 0.020 | mg/l | 3141 | 8/26/04 | 16:04 |
| Apparent Color | < 5. | Color Unit | 3783 | 8/27/04 | 14:01 |
| Phosphorus | < 0.100 | mg/l | 3444 | 8/30/04 | 16:12 |
| BOD 5 Day | < 2.00 | mg/l | 3084 | 8/31/04 | 22:05 |
| Detergents (MBAS) | < 0.0500 | mg/l | 3174 | 8/26/04 | 20:31 |
| Hardness | < 2.50 | mg/l | 4640 | 8/30/04 | 15:18 |
| Ammonia Nitrogen as N | < 0.100 | mg/l | 4277 | 8/30/04 | 10:05 |
| Total Organic Carbon | < 1.00 | mg/l | 2811 | 8/26/04 | 12:51 |
| Total Suspended Solids | < 1.0 | mg/l | 3304 | 8/26/04 | 23:30 |
| Total Suspended Solids | < 1.0 | mg/l | 3304 | 8/26/04 | 23:30 |

Project QC continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-AP***
***Page: 6***
***Laboratory Receipt Date: 8/26/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Sulfite | < 5.0 | mg/l | 3343 | 8/26/04 | 19:20 |
| Sulfide | < 1.000 | mg/l | 5001 | 8/28/04 | 21:00 |
| Chloride | < 1.00 | mg/l | 3384 | 8/26/04 | 22:48 |
| Bromide | < 1.00 | mg/l | 2712 | 8/26/04 | 17:11 |
| Total Nitrogen | 0.00 | mg/l | 3443 | 8/28/04 | 13:28 |
| Oil & Grease as HEM | < 5.00 | mg/l | 3217 | 8/31/04 | 14:07 |

End of Report for Project 387287

# WARNER LABORATORIES/EAC
**INCORPORATED**

Drinking Water
Cert# TN03073

**Consulting Chemists/Environmental Consultants**
**ESTABLISHED 1960**


Test America
Ashley Morris/Jennifer Chapman
2960 Foster Creighton Dr.
Nashville, TN 37204

Phone: 726-0177 Fax: 726-3404 August 27, 2004

## LABORATORY #59541

**PROJECT #SDG 386486**

Bacteriological evaluation of two water samples collected on 8/25/04, delivered to laboratory on 8/26/04 at 3:00 p.m.

| SAMPLE IDENTIFICATION | TIME SAMPLED | FECAL COLIFORM |
|---|---|---|
| IDENTIFICATION # 04a132117 | 1115 | 480 CFU/100 mL |
| IDENTIFICATION # 04a132118 | 1150 | 740 CFU/100 mL |
| PRE BLANK #1 | | NEGATIVE |
| POST BLANK #2 | | NEGATIVE |

Test initiated 8-26-04 @ 3:30 p.m. by Paul Williams.
Test completed 8-27-04 @ 3:25 p.m. by Christa Lynch.

Test performed according to method 9222, Membrane Filter Technique for Coliform Group, as published in Standard Methods for the Examination of Water and Wastewater, as published by the American Public Health Association.

Respectfully Submitted,

Warner Laboratories, Inc.


2631 GRANDVIEW AVENUE • P.O. BOX 110164 • NASHVILLE, TENNESSEE 37211
615-242-1480 • 615-254-6764 • FAX 615-242-5522

TestAmerica

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

# CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

**Client Name/Account #:** TestAmerica Inc.

**Address:** 2960 Foster Creighton Drive

**City/State/Zip:** Nashville, TN 37204

**Report To:** Ashley Morris/Jennifer Chapman

**Project Manager:** Jennifer Chapman

**P.O. #**

**Telephone Number:** 615-301-5041 **Fax No.:** 615-726-3404

**TA Quote #:**

**Sampler Name: (Print)**

**Project ID:**

**Sampler Signature:**

**Project #:** 387287

59541

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | Preservative: $HNO_3$ (Red Label) | Preservative: HCl (Blue Label) | Preservative: NaOH ( Orange Label) | Preservative: $H_2SO_4$ Plastic (Yellow Label) | Preservative: $H_2SO_4$ Glass(Yellow Label) | Preservative: None (Black Label) | Preservative: Other ( Specify) | Matrix: Groundwater | Matrix: Wastewater | Matrix: Drinking Water | Matrix: Sludge | Matrix: Soil | Matrix: Other (specify) | Analyze For: Fecal Coliform | RUSH TAT (Pre-Schedule) | Standard TAT | Fax Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04a132117 | 8/25/2004 | 11:15 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a132118 | 8/25/2004 | 11:50 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |

**Special Instructions:**

**Method of Shipment:** FEDEX

**Laboratory Comments:**

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

| Relinquished by: | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by | Date | Time | Received by TestAmerica. | Date | Time |
| Shelley A. Martin | 8/26/04 | 3:00 PM | | | |

**Warner Laboratories, Inc.**

No: 59541 Client: Test America

Client No: 436 Date: 08/26/04

[illegible] Water sample labeled [illegible]
[illegible] 11:35 a 08/26/04 [illegible] 08/26/04 3:40

Type Test Started: M

Analysis Req'd: Total Coliform

ANALYTICAL WORKSHEET
TOTAL/FECAL COLIFORM

Project #/Client Test America 59541
Date Received 08/27/04
Date Time Analyst Initiated 08/26/04 3:30 PM
Date Time Analyst Completed 08/27/04 3:25 CF

59541

2117 - 1ML - 4
2117 - 10ML - 48/=480 CFU per 100 MLS (positive)
2117 - 50ML - TNTC

2118 - 1ML - 4
2118 - 10ML - 74 = 740/CFU per 100 MLS
2118 50 ML - TNTC (positive)

pre - ~~0~~
post - ~~0~~

Results Verified by _____

TestAmerica
ANALYTICAL TESTING CORPORATION

**Nashville Division**

386491

**COOLER RECEIPT FORM** **BC#**

**Client Name:** Western Kentucky Energy

**Cooler Received/Opened On:** 8/19/04 **Accessioned By:** Shane Gambill

Log-in Personnel Signature

1. Temperature of Cooler when triaged: 0.9 **Degrees Celsius**
2. Were custody seals on outside of cooler?..... YES...NO....NA
   a. If yes, how many, what kind and where: 1/2/3/4 FRONT/BACK/SIDE
3. Were custody seals on containers and intact?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition ( unbroken)?..... YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)?..... YES...NO...NA
12. Did all container labels and tags agree with custody papers?..... YES...NO...NA
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
    b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

    If not, record standard ID of preservative used here_____
17. Was residual chlorine present?..... NO...YES...NA
18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

| 1609 | 1620 | 1653 | 1642 | 1583 |
|---|---|---|---|---|
| Fed-Ex | UPS | Velocity | Airborne | Route | Off-street | Misc. |

19. If a Non-Conformance exists, see attached or comments below:

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City, State/Zip Code: Henderson KY 42419
Project Manager: galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES-Additional Parameters
Project #:
Site/Location ID: 007 SIO  State: KY
Report To: galbraith
Invoice To: attn accounting
Quote #: 081604-212-199  PO#:

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Nitrates and | Surfactants | Oil + grease | Mt Mass Oil | Sulfide | metals | TOC | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 007SIO | 8-18-04 | 1155 | G | | WW | | | | | | X | | X | | | | | | | 12 | 8 | 15 | |
| 007 SIO | ↓ | ↓ | ↓ | | ↓ | | | | | | X | | | X | | | | | | | | | |
| 007SIO | | | | | | | | | X | | | | | | X | | | | | | | | |
| 007SIO | | | | | | | | | X | | | | | | | X | | | | | | | |
| 007SIO | | | | | | | | X | | | | | | | | | X | | | | | | |
| 007SIO | | | | | | X | | | | | | | | | | | | X | | | | | |
| 007SIO | ↓ | ↓ | ↓ | | ↓ | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 8-18-04 | Time: 1500 | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 8:10 |

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: YES

**386491**

Client Name: Western Kentucky Energy Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: galbraith
Telephone Number: 270-844-6038 Fax: 10823
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson ICPDES - Add'n Parameters
Project #:
Site/Location ID: 009 SSSP State: KY
Report To: Galbraith
Invoice To: attn: accounting
Quote #: 081604-212-199 PO#:

**TAT**
___ Standard
___ Rush (surcharges may apply)
**Date Needed:**
**Fax Results:** Y N

**QC Deliverables**
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other) | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Cyanides amen | Surfactants | Oil + grease | Nit Ams and | Sulfide | Metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 009 SSSP | 8-18-04 | 1210 | G | | WW | | | | | | X | | X | | | | | | | 12 | 80 | 16 | |
| 009 SSSP | | | | | | | | | | | X | | | X | | | | | | | | | |
| 009 SSSP | | | | | | | | | X | | | | | | X | | | | | | | | |
| 009 SSSP | | | | | | | | | X | | | | | | | X | | | | | | | |
| 009 SSSP | | | | | | | | X | | | | | | | | | X | | | | | | |
| 009 SSSP | | | | | | X | | | | | | | | | | | | X | | | | | |
| 009 SSSP | | | | | | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

| Relinquished By | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|
| | 8-18-04 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 8:10 |

**LABORATORY COMMENTS:**
**Init Lab Temp:**
**Rec Lab Temp:**
**Custody Seals:** Y N N/A
**Bottles Supplied by Test America:** Y N
**Method of Shipment:**

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
State/Zip Code: Henderson KY 42419
Project Manager: galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 008 PI  State: KY
Report To: galbraith
Invoice To: attn: accounting
Quote #: 081604-202-199  PO#:

TAT: Standard / ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Inorganics and Metals | Surfactants | Oil + grease | NH3 Phos COD | Sulfide | metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 008 PI | 8-18-04 | 0920 | G | | WW | | | | | | X | | X | | | | | | 1 | 2 | 8 | 0 | 7 | |
| 008 PI | | | | | | | | | | | X | | | X | | | | | | | | | |
| 008 PI | | | | | | | | | X | | | | | | X | | | | | | | | |
| 008 PI | | | | | | | | | X | | | | | | | X | | | | | | | |
| 008 PI | | | | | | | | X | | | | | | | | | X | | | | | | |
| 008 PI | | | | | | X | | | | | | | | | | | | X | | | | | |
| 008 PI | | | | | | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

QC Deliverables: ___ None / ___ Level 2 (Batch QC) / ___ Level 3 / ___ Level 4 / Other: ___

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 8/19/04 | 8:10 |

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2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

**386491**

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: ~~Bill~~ galbraith
Telephone Number: 270-844-6030  Fax: -6023
Sampler Name: (Print Name) michael galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 003 SD  State: KY
Report To: galbraith
Invoice To: attn accounting
Quote #: 081604-212-199  PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y ~~N~~

Matrix: SL - Sludge, OW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other
Preservation & # of Containers: $HNO_3$, HCl, NaOH, $H_2SO_4$, Methanol, None, Other (Specify)
Analyze For: Nitrate and Nitrite; Surfactants; Oil + grease; NH3 Phos COD; Sulfide; metals; TOC; 1280 14

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix | $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other | Nitrate and Nitrite | Surfactants | Oil + grease | NH3 Phos COD | Sulfide | metals | TOC | 1280 14 | QC Deliverables / REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 003 SD | 8-18-04 | 1125 | G | | WW | | | | | | X | | X | | | | | | | | 1000ml X2 |
| 003 SD | | | | | | | | | | | X | | | X | | | | | | | 500ml |
| 003 SD | | | | | | | | | X | | | | | | X | | | | | | glass |
| 003 SD | | | | | | | | | X | | | | | | | X | | | | | |
| 003 SD | | | | | | | | X | | | | | | | | | X | | | | |
| 003 SD | | | | | | X | | | | | | | | | | | | X | | | |
| 003 SD | | | | | | | X | | | | | | | | | | | | X | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ___

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 8:10 |

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2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N. Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Mike Galbraith
Telephone Number: 270-844-6030  Fax: 270-844-6023
Sampler Name: (Print Name) Tom Snow, Mike Galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 001 MP  State: KY
Report To: Mike Galbraith
Invoice To: ~~Mike~~ attn: accounting
Quote #: 081604-212-PP  PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Unpreserved anion | Surfactants | Oil + grease | Nit, Phos, GD | Sulfide | metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 MP | 8-16-04 | 1140 | G | | WW | | | | | | X | | X | | | | | | | 28018 | | | 1000 ml x2 |
| 001 MP | | | | | | | | | | | X | | | X | | | | | | | | | ~~250ml~~ 500ml |
| 001 MP | | | | | | | | | X | | | | | | X | | | | | | | | 5 jars |
| 001 MP | | | | | | | | | X | | | | | | | X | | | | | | | |
| 001 MP | | | | | | | | X | | | | | | | | | X | | | | | | |
| 001 MP | | | | | | X | | | | | | | | | | | | X | | | | | |
| 001 MP | | | | | | | X | | | | | | | | | | | | X | | | | |
| ~~001 MP~~ | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | Received By: | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 8/19/04 | 9:10 |

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Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? yes
Compliance Monitoring

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
City/State/Zip Code: Henderson KY 42419
Project Manager: Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) michael galbraith
Sampler Signature: Michael Galbraith

Project Name: Wilson KPDES - Add'n Parameters
Project #:
Site/Location ID: 005 MCP  State: KY
Report To: Galbraith
Invoice To: attn: accounting
Quote #: 0811604-212-199  PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Uppers and | Surfactants | Oil & grease | Nit. Phos. CBD | Sulfide | metals | TOC | | | | QC Deliverables: ___ None ___ Level 2 (Batch QC) ___ Level 3 ___ Level 4 Other: | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 005 MCP | 8-18-04 | 1105 | G | | WW | | | | | | X | | X | | | | | | 128019 | | | | | 1000ml x2 |
| 005 MCP | | | | | | | | | | | X | | | X | | | | | | | | | | 500ml |
| 005 MCP | | | | | | | | | X | X | | | | X | | | | | | | | | | 3 glass |
| 005 MCP | | | | | | | | | X | | | | | | X | | | | | | | | | |
| 005 MCP | | | | | | | | X | | | | | | | | X | | | | | | | | |
| 005 MCP | | | | | | X | | | | | | | | | | | X | | | | | | | |
| 005 MCP | | | | | | | X | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Michael Galbraith | 8-18-04 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 940 |

TestAmerica
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800-765-0980 • 615-726-3404 Fax

**Western Kentucky Energy**
**145 Main Street P O box 1518, Henderson, KY 42419-1518**
**270-844-6030 (fax) 270-844-6023 (Email)**
**mike.galbraith@lgeenergy.com**
**Project: Wilson KPDES Additional Parameters**
**Quote #: 081604-212-199** *[reference on COC for correct pricing]*

**Mike Galbraith**
**Client #: 8407**
**Bid Date: August 16, 2004**
**Start Date: TBD**
**Valid Until: December 31, 2004**

| Parameters | Method | Matrix | Per Sample | Qty | Extended | Billing Notes |
|---|---|---|---|---|---|---|
| Biological Oxygen Demand | 405.1 | Liquid | 24.00 | 8 | 192.00 | BOD |
| Chemical Oxygen Demand | 410.4 M | Liquid | 20.00 | 8 | 160.00 | COD |
| Total Organic Carbon | 415.1 | Liquid | 20.00 | 8 | 160.00 | TOC |
| Total Suspended Solids | 160.2 | Liquid | 8.00 | 8 | 64.00 | TSS |
| Ammonia | 350.1 | Liquid | 16.00 | 8 | 128.00 | NH3 |
| Bromide | 300 | Liquid | 20.00 | 8 | 160.00 | Br |
| Chloride | 325.2 | Liquid | 12.00 | 8 | 96.00 | Cl |
| Total Residual Chlorine | 330.5 | Liquid | 8.00 | 8 | 64.00 | Residual Cl |
| Color | 110.2 | Liquid | 8.00 | 8 | 64.00 | Color |
| Fecal Coliform | | Liquid | 40.00 | 8 | 320.00 | Fecal |
| Fluoride | 340.2 | Liquid | 16.00 | 8 | 128.00 | Fl |
| Total Hardness | 130.2 | Liquid | 8.00 | 8 | 64.00 | Hardness |
| Nitrate-Nitrite | 353.2 | Liquid | 20.00 | 8 | 160.00 | Nitrate-Nitrite |
| Total Nitrogen | SM 4500 N-A | Liquid | 48.00 | 8 | 384.00 | Total N |
| Oil and Grease | 1664 | Liquid | 32.00 | 8 | 256.00 | O&G |
| Phosphorous | 365.4 | Liquid | 20.00 | 8 | 160.00 | Total P |
| Sulfate | 375.4 | Liquid | 24.00 | 8 | 192.00 | SO4 |
| Sulfide | 376.1 | Liquid | 16.00 | 8 | 128.00 | Sulfide |
| Sulfite | 377.1 | Liquid | 16.00 | 8 | 128.00 | Sulfite |
| Surfactants | 425.1 | Liquid | 20.00 | 8 | 160.00 | MBAS |
| Total Aluminium | 6010 | Liquid | 10.00 | 8 | 80.00 | Al |
| Total Barium | 6010 | Liquid | 10.00 | 8 | 80.00 | Ba |
| Total Boron | 6010 | Liquid | 10.00 | 8 | 80.00 | B |
| Total Cobalt | 6010 | Liquid | 10.00 | 8 | 80.00 | Co |
| Total Iron | 6010 | Liquid | 10.00 | 8 | 80.00 | FE |
| Total Magnesium | 6010 | Liquid | 10.00 | 8 | 80.00 | Mg |
| Total Molybdenum | 6010 | Liquid | 10.00 | 8 | 80.00 | Mo |
| Total Manganese | 6010 | Liquid | 10.00 | 8 | 80.00 | Mn |
| Total Tin | 6010 | Liquid | 10.00 | 8 | 80.00 | Sn |
| Total Titanium | 6010 | Liquid | 10.00 | 8 | 80.00 | Ti |
| | | | **Est. Project Total** | | $ 2,968.00 | |
| | | | | | | |

- Fecal Coliform is subcontract parameter and must verify hold time before pursuing with TestAmerica
- Standard turnardound time of 7-10 business days and Level II documentation

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8/26/04

# CASE NARRATIVE

***WESTERN KY ENERGY 8407***
***TOM SHAW***
***P.O. BOX 1518***
***HENDERSON, KY 42419-1518***

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: WILSON KPDES-ADDITIONAL
Project Number: .
Laboratory Project Number: 386491.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.



| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| 003 SD | 04-A128014 | |
| 007 SI0 | 04-A128015 | |
| 009 SSSP | 04-A128016 | |
| 008 PI | 04-A128017 | |
| 001 MP | 04-A128018 | |
| 005 MCP | 04-A128019 | |

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| Sample Identification | Lab Number | Collection Date |
|---|---|---|

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 8/26/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 90038

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128014
Sample ID: 003 SD
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | 4.04 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.222 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.0640 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 80.1 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.375 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 20.9 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.232 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 0.431 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 21.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/19/04 | 19:07 | W. Choate | 353.2 | 6592 |
| Fluoride | 0.730 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 186. | mg/l | 10.0 | 10 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | ND | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | 9.00 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A128014
Sample ID: 003 SD
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 286. | mg/l | 10.0 | 1 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 7.49 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 17.4 | mg/l | 2.56 | 2.6 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6671 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 20.5 | mg/l | 1.00 | 1 | 8/20/04 | 21:31 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 0.780 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128015
Sample ID: 007 SI0
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | 34.6 | mg/l | 10.0 | 5 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.209 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.0410 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 101. | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.765 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 38.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.296 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 2.29 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | 10.0 | mg/l | 0.100 | 1 | 8/19/04 | 19:09 | W. Choate | 353.2 | 6592 |
| Fluoride | 0.800 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 207. | mg/l | 10.0 | 10 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | 0.0220 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | 0.381 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A128015
Sample ID: 007 SI0
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | 0.110 | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 411. | mg/l | 10.0 | 1 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | 4.10 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 7.78 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 18.4 | mg/l | 2.00 | 2 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6671 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 59.0 | mg/l | 5.00 | 5 | 8/20/04 | 21:41 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 14.7 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128016
Sample ID: 009 SSSP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | 3.94 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.102 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.0340 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 678. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.224 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 39.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.0560 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 0.998 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 32.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/19/04 | 19:10 | W. Choate | 353.2 | 6592 |
| Fluoride | 0.870 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 1770 | mg/l | 50.0 | 50 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | 0.708 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | 19.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A128016
Sample ID: 009 SSSP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 1860 | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 11.9 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 8.40 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6671 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 9.86 | mg/l | 1.00 | 1 | 8/20/04 | 21:33 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 1.20 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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## *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128017
Sample ID: 008 PI
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.393 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.0400 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 41.2 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.540 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 8.30 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.0890 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 0.0800 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 5.00 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | 0.960 | mg/l | 0.100 | 1 | 8/19/04 | 19:10 | W. Choate | 353.2 | 6592 |
| Fluoride | 0.230 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 31.7 | mg/l | 1.00 | 1 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | 0.0340 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | ND | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A128017
Sample ID: 008 PI
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 137. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 3.18 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 14.8 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6671 |
| Sulfite | 10.4 | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 13.1 | mg/l | 1.00 | 1 | 8/20/04 | 21:33 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 1.22 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128018
Sample ID: 001 MP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.645 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.223 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 307. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.561 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 62.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.128 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 1.17 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | 7.53 | mg/l | 0.100 | 1 | 8/19/04 | 19:12 | W. Choate | 353.2 | 6592 |
| Fluoride | 0.910 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 835. | mg/l | 50.0 | 50 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | 1.62 | mg/l | 0.0400 | 2 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | 0.328 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A128018
Sample ID: 001 MP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 1020 | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | 0.180 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 12.7 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 19.2 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6909 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 83.0 | mg/l | 5.00 | 5 | 8/20/04 | 21:42 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 8.98 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128019
Sample ID: 005 MCP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | | |
| BOD 5 Day | 4.31 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405.1 | 6634 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.293 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Barium | 0.163 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Calcium, total | 238. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Iron, total | 0.281 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Magnesium | 62.8 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Manganese | 0.177 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| Boron | 4.53 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200.7 | 7027 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 32.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410.4 Mod | 9240 |
| Nitrate/Nitrite-N as N | 1.46 | mg/l | 0.100 | 1 | 8/19/04 | 19:13 | W. Choate | 353.2 | 6592 |
| Fluoride | 1.27 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340.2MOD | 2355 |
| Sulfate | 788. | mg/l | 25.0 | 25 | 8/20/04 | 10:48 | M.Shockley | 375.4 | 7091 |
| Chlorine, residual | 1.62 | mg/l | 0.0400 | 2 | 8/19/04 | 17:10 | T. Beverly | 330.5 | 9403 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110.2 | 6578 |
| Phosphorus | 0.136 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365.4 | 7933 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A128019
Sample ID: 005 MCP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425.1 | 6598 |
| Hardness | 853. | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2340B | 7027 |
| Ammonia Nitrogen as N | 0.220 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350.1M | 2297 |
| Total Organic Carbon | 12.9 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415.1 | 6677 |
| Total Suspended Solids | 9.20 | mg/l | 2.00 | 2 | 8/20/04 | 19:15 | S. Gibson | 160.2 | 6909 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377.1 | 6599 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376.1 | 251 |
| Chloride | 77.5 | mg/l | 5.00 | 5 | 8/20/04 | 21:42 | W. Choate | 325.2 | 8244 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 | 7668 |
| Total Nitrogen | 4.48 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-4500 | 7935 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 1664A | 9478 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 1***
***Laboratory Receipt Date: 8/19/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| Aluminum | mg/l | 0.222 | 2.25 | 2.00 | 101 | 70. - 130. | 7027 | '128014 |
| Barium | mg/l | 0.0640 | 2.00 | 2.00 | 97 | 70. - 130. | 7027 | '128014 |
| Cobalt | mg/l | < 0.0200 | 0.462 | 0.500 | 92 | 70. - 130. | 7027 | '128014 |
| Iron, total | mg/l | 0.375 | 1.29 | 1.00 | 92 | 70. - 130. | 7027 | '128014 |
| Manganese | mg/l | 0.232 | 0.670 | 0.500 | 88 | 70. - 130. | 7027 | '128014 |
| Molybdenum | mg/l | < 0.0500 | 0.459 | 0.500 | 92 | 70. - 130. | 7027 | '128014 |
| Tin | mg/l | < 0.0500 | 0.878 | 1.00 | 88 | 70. - 130. | 7027 | '128014 |
| Titanium | mg/l | < 0.0500 | 0.912 | 1.00 | 91 | 70. - 130. | 7027 | '128014 |
| Boron | mg/l | 0.431 | 1.39 | 1.00 | 96 | 70. - 130. | 7027 | '128014 |
| **MISC PARAMETERS** | | | | | | | | |
| Chemical Oxygen Demand | mg/l | 19.0 | 62.0 | 50.0 | 86# | 90. - 110. | 9240 | 04-A128808 |
| Nitrate/Nitrite-N as N | mg/l | < 0.100 | 6.15 | 6.00 | 102 | 90. - 110. | 6592 | 04-A128014 |
| Nitrate/Nitrite-N as N | mg/l | < 0.100 | 6.07 | 6.00 | 101 | 90. - 110. | 6592 | 04-A128014 |
| Fluoride | mg/l | 1.27 | 1.78 | 0.500 | 102 | 79. - 125. | 2355 | 04-A128019 |
| Sulfate | mg/l | 31.7 | 72.4 | 40.0 | 102 | 69. - 120. | 7091 | 04-A128017 |
| Phosphorus | mg/l | < 0.100 | 2.10 | 2.00 | 105 | 80. - 120. | 7933 | 04-A128014 |
| Detergents (MBAS) | mg/l | < 0.0500 | 0.726 | 0.750 | 97 | 71. - 117. | 6598 | 04-A128014 |
| Ammonia Nitrogen as N | mg/l | 1.72 | 7.24 | 5.00 | 110# | 90. - 110. | 2297 | 04-A127967 |
| Total Organic Carbon | mg/l | 7.49 | 27.6 | 20.0 | 101 | 79. - 125. | 6677 | 04-A128014 |
| Sulfite | mg/l | < 5.0 | 39.6 | 40.0 | 99 | 80. - 112. | 6599 | 04-A128019 |
| Sulfide | mg/l | < 1.000 | 19.70 | 20.00 | 98 | 63. - 127. | 251 | 04-A127998 |
| Chloride | mg/l | 3.81 | 13.0 | 10.0 | 92 | 71. - 123. | 8244 | 04-A127621 |
| Total Nitrogen | mg/l | 0.78 | 3.22 | 2.50 | 98 | 90. - 110. | 7935 | 04-A128014 |
| Oil & Grease as HEM | mg/l | < 5.00 | 37.4 | 40.0 | 94 | 78. - 114. | 9478 | blank |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 2***
***Laboratory Receipt Date: 8/19/04***

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.25 | 2.30 | 2.20 | 20 | 7027 |
| Barium | mg/l | 2.00 | 2.04 | 1.98 | 20 | 7027 |
| Calcium, total | mg/l | 78.3 | 78.0 | 0.38 | 20 | 7027 |
| Cobalt | mg/l | 0.462 | 0.475 | 2.77 | 20 | 7027 |
| Iron, total | mg/l | 1.29 | 1.31 | 1.54 | 20 | 7027 |
| Magnesium | mg/l | 20.5 | 20.3 | 0.98 | 20 | 7027 |
| Manganese | mg/l | 0.670 | 0.681 | 1.63 | 20 | 7027 |
| Molybdenum | mg/l | 0.459 | 0.474 | 3.22 | 20 | 7027 |
| Tin | mg/l | 0.878 | 0.880 | 0.23 | 20 | 7027 |
| Titanium | mg/l | 0.912 | 0.923 | 1.20 | 20 | 7027 |
| Boron | mg/l | 1.39 | 1.41 | 1.43 | 20 | 7027 |
| Nitrate/Nitrite-N as N | mg/l | 6.15 | 6.07 | 1.31 | 20 | 6592 |
| Fluoride | mg/l | 1.78 | 1.78 | 0.00 | 20 | 2355 |
| Sulfate | mg/l | 72.4 | 71.4 | 1.39 | 20 | 7091 |
| Phosphorus | mg/l | 2.10 | 2.08 | 0.96 | 20 | 7933 |
| Detergents (MBAS) | mg/l | 0.726 | 0.738 | 1.64 | 20 | 6598 |
| Total Organic Carbon | mg/l | 27.6 | 27.7 | 0.36 | 20 | 6677 |
| Sulfite | mg/l | 39.6 | 38.8 | 2.04 | 20 | 6599 |
| Sulfide | mg/l | 19.70 | 19.70 | 0.00 | 20 | 251 |
| Bromide | mg/l | 10.7 | 10.7 | 0.00 | 20 | 7668 |
| Oil & Grease as HEM | mg/l | 37.4 | 38.9 | 3.93 | 20 | 9478 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 3***
***Laboratory Receipt Date: 8/19/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.00 | 1.92 | 96 | 85 - 115 | 7027 |
| Barium | mg/l | 2.00 | 1.94 | 97 | 85 - 115 | 7027 |
| Calcium, total | mg/l | 5.00 | 4.48 | 90 | 85 - 115 | 7027 |
| Cobalt | mg/l | 0.500 | 0.462 | 92 | 85 - 115 | 7027 |
| Iron, total | mg/l | 1.00 | 0.926 | 93 | 85 - 115 | 7027 |
| Magnesium | mg/l | 5.00 | 4.76 | 95 | 85 - 115 | 7027 |
| Manganese | mg/l | 0.500 | 0.447 | 89 | 85 - 115 | 7027 |
| Molybdenum | mg/l | 0.500 | 0.446 | 89 | 85 - 115 | 7027 |
| Tin | mg/l | 1.00 | 0.961 | 96 | 85 - 115 | 7027 |
| Titanium | mg/l | 1.00 | 0.896 | 90 | 85 - 115 | 7027 |
| Boron | mg/l | 1.00 | 0.937 | 94 | 85 - 115 | 7027 |
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 9240 |
| Nitrate/Nitrite-N as N | mg/l | 6.00 | 6.10 | 102 | 90 - 110 | 6592 |
| Fluoride | mg/l | 0.500 | 0.480 | 96 | 90 - 110 | 2355 |
| Sulfate | mg/l | 25.0 | 25.4 | 102 | 94 - 106 | 7091 |
| Chlorine, residual | mg/l | 0.200 | 0.194 | 97 | 90 - 110 | 9403 |
| Apparent Color | Color Unit | 20. | 20. | 100 | - | 6578 |
| Phosphorus | mg/l | 2.00 | 2.03 | 102 | 90 - 110 | 7933 |
| BOD 5 Day | mg/l | 198. | 170. | 86 | 85 - 115 | 6634 |
| BOD 5 Day | mg/l | 198. | 178. | 90 | 85 - 115 | 6634 |
| Detergents (MBAS) | mg/l | 0.750 | 0.754 | 101 | 82 - 115 | 6598 |
| Ammonia Nitrogen as N | mg/l | 5.00 | 5.25 | 105 | 90 - 110 | 2297 |
| Total Organic Carbon | mg/l | 200. | 195. | 98 | 90 - 110 | 6677 |
| Total Suspended Solids | mg/l | 100. | 106. | 106 | 81 - 119 | 6671 |
| Total Suspended Solids | mg/l | 100. | 106. | 106 | 81 - 119 | 6909 |
| Sulfite | mg/l | 40.0 | 40.4 | 101 | 90 - 110 | 6599 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 4***
***Laboratory Receipt Date: 8/19/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Sulfide | mg/l | 20.00 | 19.60 | 98 | 90 - 110 | 251 |
| Chloride | mg/l | 10.0 | 10.0 | 100 | 86 - 112 | 8244 |
| Bromide | mg/l | 10.0 | 10.4 | 104 | 90 - 110 | 7668 |
| Total Nitrogen | mg/l | 2.50 | 2.46 | 98 | 90 - 110 | 7935 |
| Oil & Grease as HEM | mg/l | 40.0 | 38.8 | 97 | 78 - 114 | 9478 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/l | 32.0 | 34.0 | 6.06 | 15. | 9240 | 04-A128016 |
| Chemical Oxygen Demand | mg/l | 206. | 196. | 4.98 | 15. | 9240 | 04-A129702 |
| Fluoride | mg/l | 0.730 | 0.700 | 4.20 | 15. | 2355 | 04-A128014 |
| Sulfate | mg/l | 788. | 792. | 0.51 | 15. | 7091 | 04-A128019 |
| Chlorine, residual | mg/l | < 0.020 | < 0.020 | N/A | 15. | 9403 | 04-A128014 |
| Apparent Color | Color Unit | 20. | 20. | 0.00 | 15. | 6578 | 04-A128019 |
| Phosphorus | mg/l | 2.56 | 2.58 | 0.78 | 15. | 7933 | 04-A128142 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6634 | 04-A127998 |
| BOD 5 Day | mg/l | 4.31 | 4.47 | 3.64 | 15. | 6634 | 04-A128019 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6634 | 04-A128018 |
| Detergents (MBAS) | mg/l | 1.67 | 1.67 | 0.00 | 15. | 6598 | 04-A127934 |
| Ammonia Nitrogen as N | mg/l | 0.370 | 0.240 | 42.62 # | 15. | 2297 | 04-A131164 |
| Total Organic Carbon | mg/l | 3230 | 3260 | 0.92 | 15. | 6677 | 04-A128059 |
| Total Suspended Solids | mg/l | 2210 | 2340 | 5.71 | 15. | 6671 | 04-A128008 |
| Total Suspended Solids | mg/l | 15.0 | 16.0 | 6.45 | 15. | 6671 | 04-A127920 |
| Total Suspended Solids | mg/l | 161. | 165. | 2.45 | 15. | 6909 | 04-A128070 |
| Sulfite | mg/l | 10.4 | 10.8 | 3.77 | 15. | 6599 | 04-A128017 |
| Sulfide | mg/l | < 1.000 | < 1.000 | N/A | 15. | 251 | 04-A128884 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 5***
***Laboratory Receipt Date: 8/19/04***

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Chloride | mg/l | 4800 | 4830 | 0.62 | 15. | 8244 | 04-A128830 |
| Total Nitrogen | mg/l | 4.48 | 4.31 | 3.87 | 15. | 7935 | 04-A128019 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **METALS** | | | | | |
| Aluminum | < 0.0130 | mg/l | 7027 | 8/20/04 | 18:21 |
| Barium | < 0.0020 | mg/l | 7027 | 8/20/04 | 18:21 |
| Calcium, total | < 0.0098 | mg/l | 7027 | 8/20/04 | 18:21 |
| Cobalt | < 0.0016 | mg/l | 7027 | 8/20/04 | 18:21 |
| Iron, total | < 0.0150 | mg/l | 7027 | 8/20/04 | 18:21 |
| Magnesium | < 0.0180 | mg/l | 7027 | 8/20/04 | 18:21 |
| Manganese | < 0.0005 | mg/l | 7027 | 8/20/04 | 18:21 |
| Molybdenum | < 0.0030 | mg/l | 7027 | 8/20/04 | 18:21 |
| Tin | < 0.0035 | mg/l | 7027 | 8/20/04 | 18:21 |
| Titanium | < 0.0005 | mg/l | 7027 | 8/20/04 | 18:21 |
| Boron | < 0.0015 | mg/l | 7027 | 8/20/04 | 18:21 |
| **MISC PARAMETERS** | | | | | |
| Chemical Oxygen Demand | < 3.00 | mg/l | 9240 | 8/23/04 | 10:40 |
| Nitrate/Nitrite-N as N | < 0.100 | mg/l | 6592 | 8/19/04 | 19:05 |
| Fluoride | < 0.200 | mg/l | 2355 | 8/26/04 | 10:05 |
| Sulfate | < 1.00 | mg/l | 7091 | 8/20/04 | 10:48 |
| Chlorine, residual | < 0.020 | mg/l | 9403 | 8/19/04 | 17:10 |
| Apparent Color | < 5. | Color Unit | 6578 | 8/20/04 | 16:00 |
| Phosphorus | < 0.100 | mg/l | 7933 | 8/23/04 | 11:01 |
| BOD 5 Day | < 2.00 | mg/l | 6634 | 8/24/04 | 21:15 |
| Detergents (MBAS) | < 0.0500 | mg/l | 6598 | 8/23/04 | 21:53 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number:***
***Project Name: WILSON KPDES-ADDITIONAL***
***Page: 6***
***Laboratory Receipt Date: 8/19/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Hardness | < 2.50 | mg/l | 7027 | 8/20/04 | 18:21 |
| Ammonia Nitrogen as N | < 0.100 | mg/l | 2297 | 8/26/04 | 9:59 |
| Total Organic Carbon | < 1.00 | mg/l | 6677 | 8/23/04 | 13:52 |
| Total Suspended Solids | < 1.0 | mg/l | 6671 | 8/20/04 | 19:15 |
| Total Suspended Solids | < 1.0 | mg/l | 6671 | 8/20/04 | 19:15 |
| Total Suspended Solids | < 1.0 | mg/l | 6909 | 8/20/04 | 19:15 |
| Sulfite | < 5.0 | mg/l | 6599 | 8/19/04 | 17:00 |
| Sulfide | < 1.000 | mg/l | 251 | 8/25/04 | 14:12 |
| Chloride | < 1.00 | mg/l | 8244 | 8/20/04 | 21:22 |
| Bromide | < 1.00 | mg/l | 7668 | 8/20/04 | 15:37 |
| Total Nitrogen | < 0.10 | mg/l | 7935 | 8/23/04 | 10:07 |
| Oil & Grease as HEM | < 5.00 | mg/l | 9478 | 8/25/04 | 15:53 |

End of Report for Project 386491

# WARNER LABORATORIES/EAC
INCORPORATED

Drinking Water
Cert# TN03073

Consulting Chemists/Environmental Consultants
ESTABLISHED 1960


Test America
Ashley Morris/Jennifer Chapman
2960 Foster Creighton Dr.
Nashville, TN 37204

Phone: 726-0177 Fax: 726-3404 August 23, 2004

## LABORATORY #59341

**PROJECT #386491**

Bacteriological evaluation of six water samples collected on 8/18/04, delivered to laboratory on 8/20/04 at 4:45 p.m.

| SAMPLE IDENTIFICATION | TIME SAMPLED | FECAL COLIFORM |
|---|---|---|
| IDENTIFICATION # 04a128014 | 1125 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128015 | 1155 | 8,400 CFU/100 mL |
| IDENTIFICATION # 04a128016 | 1210 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128017 | 920 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128018 | 1140 | 14 CFU/100 mL |
| IDENTIFICATION # 04a128019 | 1105 | 16 CFU/100 mL |
| PRE BLANK #1 | | NEGATIVE |
| POST BLANK #2 | | NEGATIVE |

Test initiated 8-20-04 @ 6:30 p.m. by P. Williams.
Test completed 8-21-04 @ 4:40 p.m. by P. Williams.

Test performed according to method 9222, Membrane Filter Technique for Coliform Group, as published in Standard Methods for the Examination of Water and Wastewater, as published by the American Public Health Association.

Respectfully Submitted,

James J. Bolick

Warner Laboratories, Inc.

TestAmerica
INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

# CHAIN OF CUSTODY RECORD

Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

**Client Name/Account #:** TestAmerica Inc.

**Address:** 2960 Foster Creighton Drive

**City/State/Zip:** Nashville, TN 37204

**Report To:** Ashley Morris/Jennifer Chapman

**Project Manager:** Jennifer Chapman

**P.O. #**

**Telephone Number:** 615-301-5041 **Fax No.:** 615-726-3404

**TA Quote #:**

**Sampler Name: (Print)**

**Project ID:**

**Sampler Signature:**

**Project #:** 386491

59341

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red Label) | HCl (Blue Label) | NaOH ( Orange Label) | $H_2SO_4$ Plastic (Yellow Label) | $H_2SO_4$ Glass(Yellow Label) | None (Black Label) | Other ( Specify) | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify): | Analyze For: Fecal Coliform | RUSH TAT (Pre-Schedule) | Standard TAT | Fax Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04a128014 | 8/18/2004 | 11:25 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128015 | 8/18/2004 | 11:55 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128016 | 8/18/2004 | 12:10 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128017 | 8/18/2004 | 9:20 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128018 | 8/18/2004 | 11:40 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128019 | 8/18/2004 | 11:05 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

**Laboratory Comments:**

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

**Method of Shipment:** FEDEX

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Jennifer Chapman | 8/20/2004 | 12:40 | | | |
| Relinquished by: | Date | Time | Received by ~~TestAmerica~~: Shelly Martin | Date 8/20 | Time 4:45 PM |

# Warner Laboratories, Inc.

**No: 59341 Client: Test America**

Client No 446 Date 8/20/04

IDENTIFICATION 6 Water Samples labeled "04a128014 11 25 04a12815 11 55 04a128016 12 10 04a128017 - 9 20, 04a128018 - 11 40, & 04a128019 - 11 05" collected 8/18/04 delivered to lab by client

Time Rec'd [illegible] PM

Analysis Req'd Fecal Coliform

## ANALYTICAL WORKSHEET
## TOTAL/FECAL COLIFORM

Project #/Client

Date Received

Date/Time/Analyst Initiated 8/20 [illegible]

Date/Time/Analyst Completed 8/2 4.40 [illegible]

| | | |
|---|---|---|
| 04a128014<br>50 ml - 0<br>10 ml - 0<br>1 ml - 0<br><2 cfu/100ml | 04a128015<br>50 ml - [illegible]<br>10 ml - [illegible]<br>1 ml - 84<br>8400 cfu/100ml | 04a128016<br>50 ml - 0<br>10 ml - 0<br>1 ml - 0<br><2 cfu/100ml |
| 04a128017<br>50 ml - 0<br>10 ml - 0<br>1 ml - 0<br><2 cfu/100ml | 04a128013<br>50 ml - 7<br>10 ml - 1<br>1 ml - 0<br>140 cfu/100ml | 04a128019<br>50 ml - 8<br>10 ml - 2<br>1 ml - 0<br>160 cfu/100ml |

Results Verified by: [illegible]

[illegible]

001 MP

002 NSSP

003 SD

005 MCP

006 CTB

007 SIO

008 PI

009 SSSP

Wilson KPDES 7-13-04

001 MP 1055
8.11 pH 32.1°C 1724 cond

002 NSSP 0945
3350 µmhos 29.6°C 7.51 pH

003 SP 1135
6.73 27.2° 570 cond

005 MCP 1150
7.05 33.7° 3710 cond

006 CTB 1120
8.24 32.7° 1731 cond

007 STO 1045
7.67 24.9°C 1064 µmhos

008 PI 1110
7.68 28.7° 362 cond

009 SSSP 1015
1662 µmhos 8.35 pH 32.0 C

Chlorine

008 - 0920 · 3.4 Total, 3.1 free

006 - 0945

005 - 1105

003 - 1125

001 - 1140

007 - 1155 .25 total

009 - 1210

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128014
Sample ID: 003 SD
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meti |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | 4.04 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.222 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.0640 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 80.1 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Iron, total | 0.375 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 20.9 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.232 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 0.431 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Chemical Oxygen Demand | 21.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/19/04 | 19:07 | W. Choate | 353 |
| Fluoride | 0.730 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 186. | mg/l | 10.0 | 10 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | ND | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | 9.00 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 286. | mg/l | 10.0 | 1 | 8/20/04 | 18:21 | C.Johnson | SM2 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 7.49 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 17.4 | mg/l | 2.56 | 2.6 | 8/20/04 | 19:15 | S. Gibson | 160 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376 |
| Chloride | 20.5 | mg/l | 1.00 | 1 | 8/20/04 | 21:31 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 0.780 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166- |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

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# ANALYTICAL REPORT

WESTERN KY ENERGY 8407 Lab Number: 04-A128015

TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Sample ID: 007 SI0
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | 34.6 | mg/l | 10.0 | 5 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.209 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.0410 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 101. | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Iron, total | 0.765 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 38.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.296 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 2.29 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | 10.0 | mg/l | 0.100 | 1 | 8/19/04 | 19:09 | W. Choate | 353 |
| Fluoride | 0.800 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 207. | mg/l | 10.0 | 10 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | 0.0220 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | 0.381 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | 0.110 | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 411. | mg/l | 10.0 | 1 | 8/20/04 | 18:21 | C.Johnson | SM2 |
| Ammonia Nitrogen as N | 4.10 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 7.78 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 18.4 | mg/l | 2.00 | 2 | 8/20/04 | 19:15 | S. Gibson | 160 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376 |
| Chloride | 59.0 | mg/l | 5.00 | 5 | 8/20/04 | 21:41 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 14.7 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166- |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128016
Sample ID: 009 SSSP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | 3.94 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.102 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.0340 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 678. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Iron, total | 0.224 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 39.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.0560 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 0.998 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Chemical Oxygen Demand | 32.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/19/04 | 19:10 | W. Choate | 353 |
| Fluoride | 0.870 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 1770 | mg/l | 50.0 | 50 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | 0.708 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | 19.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 1860 | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 11.9 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 8.40 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376 |
| Chloride | 9.86 | mg/l | 1.00 | 1 | 8/20/04 | 21:33 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 1.20 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128017
Sample ID: 008 PI
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.393 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.0400 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 41.2 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Iron, total | 0.540 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 8.30 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.0890 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 0.0800 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Chemical Oxygen Demand | 5.00 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | 0.960 | mg/l | 0.100 | 1 | 8/19/04 | 19:10 | W. Choate | 353 |
| Fluoride | 0.230 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 31.7 | mg/l | 1.00 | 1 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | 0.0340 | mg/l | 0.0200 | 1 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | ND | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | ND | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 137. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | SM2. |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 3.18 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 14.8 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160 |
| Sulfite | 10.4 | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376 |
| Chloride | 13.1 | mg/l | 1.00 | 1 | 8/20/04 | 21:33 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 1.22 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166- |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

---

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Lab Number: 04-A128018
Sample ID: 001 MP
Sample Type: Water
Site ID:

Date Collected:

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.645 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.223 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 307. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Iron, total | 0.561 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 62.6 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.128 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 1.17 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | 7.53 | mg/l | 0.100 | 1 | 8/19/04 | 19:12 | W. Choate | 353 |
| Fluoride | 0.910 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 835. | mg/l | 50.0 | 50 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | 1.62 | mg/l | 0.0400 | 2 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | 0.328 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 1020 | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2 |
| Ammonia Nitrogen as N | 0.180 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 12.7 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 19.2 | mg/l | 4.00 | 4 | 8/20/04 | 19:15 | S. Gibson | 160 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | I. Barwari | 376 |
| Chloride | 83.0 | mg/l | 5.00 | 5 | 8/20/04 | 21:42 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 8.98 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM-- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166· |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128019
Sample ID: 005 MCP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Metl |
|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/19/04 | 23:05 | | |
| BOD 5 Day | 4.31 | mg/l | 2.00 | 1 | 8/24/04 | 21:15 | J. Hill | 405 |
| *METALS* | | | | | | | | |
| Aluminum | 0.293 | mg/l | 0.100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Barium | 0.163 | mg/l | 0.0100 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Calcium, total | 238. | mg/l | 10.0 | 10 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Iron, total | 0.281 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Magnesium | 62.8 | mg/l | 1.00 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Manganese | 0.177 | mg/l | 0.0150 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |
| Boron | 4.53 | mg/l | 0.0500 | 1 | 8/20/04 | 18:21 | C.Johnson | 200 |

| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 32.0 | mg/l | 3.00 | 1 | 8/23/04 | 10:40 | G. Baun | 410 |
| Nitrate/Nitrite-N as N | 1.46 | mg/l | 0.100 | 1 | 8/19/04 | 19:13 | W. Choate | 353 |
| Fluoride | 1.27 | mg/l | 0.200 | 1 | 8/26/04 | 10:05 | T. Beverly | 340 |
| Sulfate | 788. | mg/l | 25.0 | 25 | 8/20/04 | 10:48 | M.Shockley | 375 |
| Chlorine, residual | 1.62 | mg/l | 0.0400 | 2 | 8/19/04 | 17:10 | T. Beverly | 330 |
| Apparent Color | 20.0 | Color Unit | | | 8/20/04 | 16:00 | T. Beverly | 110 |
| Phosphorus | 0.136 | mg/l | 0.100 | 1 | 8/23/04 | 11:01 | K.Saiyasak | 365 |
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/19/04 | 21:53 | J. Hill | 425 |
| Hardness | 853. | mg/l | 100. | 10 | 8/20/04 | 18:21 | C.Johnson | SM2 |
| Ammonia Nitrogen as N | 0.220 | mg/l | 0.100 | 1 | 8/26/04 | 9:59 | K.Saiyasak | 350 |
| Total Organic Carbon | 12.9 | mg/l | 1.00 | 1 | 8/23/04 | 13:52 | S. Prayter | 415 |
| Total Suspended Solids | 9.20 | mg/l | 2.00 | 2 | 8/20/04 | 19:15 | S. Gibson | 160 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/19/04 | 17:00 | S. Gibson | 377 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/25/04 | 14:12 | 1. Barwari | 376 |
| Chloride | 77.5 | mg/l | 5.00 | 5 | 8/20/04 | 21:42 | W. Choate | 325 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/20/04 | 15:37 | G. Baun | 300 |
| Total Nitrogen | 4.48 | mg/l | 0.100 | 1 | 8/23/04 | 10:07 | K.Saiyasak | SM- |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/25/04 | 15:53 | M. Ricke | 166 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory
M = Method 350.1 modified for manual distillation with Lachat procedure.
See attached report for fecal coliform.

End of Sample Report.

# PROJECT QUALITY CONTROL DATA
# Project Number:
# Project Name: WILSON KPDES-ADDITIONAL
# Page: 1
# Laboratory Receipt Date: 8/19/04

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined ana
MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 0.222 | 2.25 | 2.00 | 101 | 70. - 130. |
| Barium | mg/l | 0.0640 | 2.00 | 2.00 | 97 | 70. - 130. |
| Cobalt | mg/l | < 0.0200 | 0.462 | 0.500 | 92 | 70. - 130. |
| Iron, total | mg/l | 0.375 | 1.29 | 1.00 | 92 | 70. - 130. |
| Manganese | mg/l | 0.232 | 0.670 | 0.500 | 88 | 70. - 130. |
| Molybdenum | mg/l | < 0.0500 | 0.459 | 0.500 | 92 | 70. - 130. |
| Tin | mg/l | < 0.0500 | 0.878 | 1.00 | 88 | 70. - 130. |
| Titanium | mg/l | < 0.0500 | 0.912 | 1.00 | 91 | 70. - 130. |
| Boron | mg/l | 0.431 | 1.39 | 1.00 | 96 | 70. - 130. |
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 19.0 | 62.0 | 50.0 | 86# | 90. - 110. |
| Nitrate/Nitrite-N as N | mg/l | < 0.100 | 6.15 | 6.00 | 102 | 90. - 110. |
| Nitrate/Nitrite-N as N | mg/l | < 0.100 | 6.07 | 6.00 | 101 | 90. - 110. |
| Fluoride | mg/l | 1.27 | 1.78 | 0.500 | 102 | 79. - 125. |
| Sulfate | mg/l | 31.7 | 72.4 | 40.0 | 102 | 69. - 120. |
| Phosphorus | mg/l | < 0.100 | 2.10 | 2.00 | 105 | 80. - 120. |
| Detergents (MBAS) | mg/l | < 0.0500 | 0.726 | 0.750 | 97 | 71. - 117. |
| Ammonia Nitrogen as N | mg/l | 1.72 | 7.24 | 5.00 | 110# | 90. - 110. |
| Total Organic Carbon | mg/l | 7.49 | 27.6 | 20.0 | 101 | 79. - 125. |
| Sulfite | mg/l | < 5.0 | 39.6 | 40.0 | 99 | 80. - 112. |
| Sulfide | mg/l | < 1.000 | 19.70 | 20.00 | 98 | 63. - 127. |
| Chloride | mg/l | 3.81 | 13.0 | 10.0 | 92 | 71. - 123. |
| Total Nitrogen | mg/l | 0.78 | 3.22 | 2.50 | 98 | 90. - 110. |
| Oil & Grease as HEM | mg/l | < 5.00 | 37.4 | 40.0 | 94 | 78. - 114. |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.25 | 2.30 | 2.20 | 20 | 7027 |
| Barium | mg/l | 2.00 | 2.04 | 1.98 | 20 | 7027 |
| Calcium, total | mg/l | 78.3 | 78.0 | 0.38 | 20 | 7027 |
| Cobalt | mg/l | 0.462 | 0.475 | 2.77 | 20 | 7027 |
| Iron, total | mg/l | 1.29 | 1.31 | 1.54 | 20 | 7027 |
| Magnesium | mg/l | 20.5 | 20.3 | 0.98 | 20 | 7027 |
| Manganese | mg/l | 0.670 | 0.681 | 1.63 | 20 | 7027 |
| Molybdenum | mg/l | 0.459 | 0.474 | 3.22 | 20 | 7027 |
| Tin | mg/l | 0.878 | 0.880 | 0.23 | 20 | 7027 |
| Titanium | mg/l | 0.912 | 0.923 | 1.20 | 20 | 7027 |
| Boron | mg/l | 1.39 | 1.41 | 1.43 | 20 | 7027 |
| Nitrate/Nitrite-N as N | mg/l | 6.15 | 6.07 | 1.31 | 20 | 6592 |
| Fluoride | mg/l | 1.78 | 1.78 | 0.00 | 20 | 2355 |
| Sulfate | mg/l | 72.4 | 71.4 | 1.39 | 20 | 7091 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Phosphorus | mg/l | 2.10 | 2.08 | 0.96 | 20 | 7933 |
| Detergents (MBAS) | mg/l | 0.726 | 0.738 | 1.64 | 20 | 6598 |
| Total Organic Carbon | mg/l | 27.6 | 27.7 | 0.36 | 20 | 6677 |
| Sulfite | mg/l | 39.6 | 38.8 | 2.04 | 20 | 6599 |
| Sulfide | mg/l | 19.70 | 19.70 | 0.00 | 20 | 251 |
| Bromide | mg/l | 10.7 | 10.7 | 0.00 | 20 | 7668 |
| Oil & Grease as HEM | mg/l | 37.4 | 38.9 | 3.93 | 20 | 9478 |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Ba |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Aluminum | mg/l | 2.00 | 1.92 | 96 | 85 - 115 | 7027 |
| Barium | mg/l | 2.00 | 1.94 | 97 | 85 - 115 | 7027 |
| Calcium, total | mg/l | 5.00 | 4.48 | 90 | 85 - 115 | 7027 |
| Cobalt | mg/l | 0.500 | 0.462 | 92 | 85 - 115 | 7027 |
| Iron, total | mg/l | 1.00 | 0.926 | 93 | 85 - 115 | 7027 |
| Magnesium | mg/l | 5.00 | 4.76 | 95 | 85 - 115 | 7027 |

Project QC continued . . .

# PROJECT QUALITY CONTROL DATA
# Project Number:
# Project Name: WILSON KPDES-ADDITIONAL
# Page: 2
# Laboratory Receipt Date: 8/19/04

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Bat |
|---|---|---|---|---|---|---|
| Manganese | mg/l | 0.500 | 0.447 | 89 | 85 - 115 | 7027 |
| Molybdenum | mg/l | 0.500 | 0.446 | 89 | 85 - 115 | 7027 |
| Tin | mg/l | 1.00 | 0.961 | 96 | 85 - 115 | 7027 |
| Titanium | mg/l | 1.00 | 0.896 | 90 | 85 - 115 | 7027 |
| Boron | mg/l | 1.00 | 0.937 | 94 | 85 - 115 | 7027 |
| **MISC PARAMETERS** | | | | | | |
| Chemical Oxygen Demand | mg/l | 20.0 | 20.0 | 100 | 90 - 110 | 9240 |
| Nitrate/Nitrite-N as N | mg/l | 6.00 | 6.10 | 102 | 90 - 110 | 6592 |
| Fluoride | mg/l | 0.500 | 0.480 | 96 | 90 - 110 | 2355 |
| Sulfate | mg/l | 25.0 | 25.4 | 102 | 94 - 106 | 7091 |
| Chlorine, residual | mg/l | 0.200 | 0.194 | 97 | 90 - 110 | 9403 |
| Apparent Color | Color Unit | 20. | 20. | 100 | - | 6578 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Phosphorus | mg/l | 2.00 | 2.03 | 102 | 90 - 110 | 7933 |
| BOD 5 Day | mg/l | 198. | 170. | 86 | 85 - 115 | 6634 |
| BOD 5 Day | mg/l | 198. | 178. | 90 | 85 - 115 | 6634 |
| Detergents (MBAS) | mg/l | 0.750 | 0.754 | 101 | 82 - 115 | 6598 |
| Ammonia Nitrogen as N | mg/l | 5.00 | 5.25 | 105 | 90 - 110 | 2297 |
| Total Organic Carbon | mg/l | 200. | 195. | 98 | 90 - 110 | 6677 |
| Total Suspended Solids | mg/l | 100. | 106. | 106 | 81 - 119 | 6671 |
| Total Suspended Solids | mg/l | 100. | 106. | 106 | 81 - 119 | 6909 |
| Sulfite | mg/l | 40.0 | 40.4 | 101 | 90 - 110 | 6599 |
| Sulfide | mg/l | 20.00 | 19.60 | 98 | 90 - 110 | 251 |
| Chloride | mg/l | 10.0 | 10.0 | 100 | 86 - 112 | 8244 |
| Bromide | mg/l | 10.0 | 10.4 | 104 | 90 - 110 | 7668 |
| Total Nitrogen | mg/l | 2.50 | 2.46 | 98 | 90 - 110 | 7935 |
| Oil & Grease as HEM | mg/l | 40.0 | 38.8 | 97 | 78 - 114 | 9478 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Du |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | mg/l | 32.0 | 34.0 | 6.06 | 15. | 9240 | 04-A12801 |
| Chemical Oxygen Demand | mg/l | 206. | 196. | 4.98 | 15. | 9240 | 04-A12970 |
| Fluoride | mg/l | 0.730 | 0.700 | 4.20 | 15. | 2355 | 04-A12801 |
| Sulfate | mg/l | 788. | 792. | 0.51 | 15. | 7091 | 04-A12801 |
| Chlorine, residual | mg/l | < 0.020 | < 0.020 | N/A | 15. | 9403 | 04-A12801 |
| Apparent Color | Color Unit | 20. | 20. | 0.00 | 15. | 6578 | 04-A12801 |
| Phosphorus | mg/l | 2.56 | 2.58 | 0.78 | 15. | 7933 | 04-A12814 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6634 | 04 A12799 |
| BOD 5 Day | mg/l | 4.31 | 4.47 | 3.64 | 15. | 6634 | 04 A12801 |
| BOD 5 Day | mg/l | < 2.00 | < 2.00 | N/A | 15. | 6634 | 04-A12801 |
| Detergents (MBAS) | mg/l | 1.67 | 1.67 | 0.00 | 15. | 6598 | 04-A12793 |
| Ammonia Nitrogen as N | mg/l | 0.370 | 0.240 | 42.62 # | 15. | 2297 | 04-A13116 |
| Total Organic Carbon | mg/l | 3230 | 3260 | 0.92 | 15. | 6677 | 04 A12805 |
| Total Suspended Solids | mg/l | 2210 | 2340 | 5.71 | 15. | 6671 | 04-A12800 |
| Total Suspended Solids | mg/l | 15.0 | 16.0 | 6.45 | 15. | 6671 | 04 A12792 |
| Total Suspended Solids | mg/l | 161. | 165. | 2.45 | 15. | 6909 | 04-A12807 |
| Sulfite | mg/l | 10.4 | 10.8 | 3.77 | 15. | 6599 | 04-A12801 |
| Sulfide | mg/l | < 1.000 | < 1.000 | N/A | 15. | 251 | 04-A12888 |
| Chloride | mg/l | 4800 | 4830 | 0.62 | 15. | 8244 | 04-A12883 |
| Total Nitrogen | mg/l | 4.48 | 4.31 | 3.87 | 15. | 7935 | 04-A12801 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **METALS** | | | | | |
| Aluminum | < 0.0130 | mg/l | 7027 | 8/20/04 | 18:21 |
| Barium | < 0.0020 | mg/l | 7027 | 8/20/04 | 18:21 |
| Calcium, total | < 0.0098 | mg/l | 7027 | 8/20/04 | 18:21 |
| Cobalt | < 0.0016 | mg/l | 7027 | 8/20/04 | 18:21 |
| Iron, total | < 0.0150 | mg/l | 7027 | 8/20/04 | 18:21 |
| Magnesium | < 0.0180 | mg/l | 7027 | 8/20/04 | 18:21 |
| Manganese | < 0.0005 | mg/l | 7027 | 8/20/04 | 18:21 |
| Molybdenum | < 0.0030 | mg/l | 7027 | 8/20/04 | 18:21 |
| Tin | < 0.0035 | mg/l | 7027 | 8/20/04 | 18:21 |
| Titanium | < 0.0005 | mg/l | 7027 | 8/20/04 | 18:21 |
| Boron | < 0.0015 | mg/l | 7027 | 8/20/04 | 18:21 |

Project QC continued . . .

# PROJECT QUALITY CONTROL DATA
# Project Number:
# Project Name: WILSON KPDES-ADDITIONAL
# Page: 3
# Laboratory Receipt Date: 8/19/04

| **MISC PARAMETERS** | | | | | |
|---|---|---|---|---|---|
| Chemical Oxygen Demand | < 3.00 | mg/l | 9240 | 8/23/04 | 10:40 |
| Nitrate/Nitrite-N as N | < 0.100 | mg/l | 6592 | 8/19/04 | 19:05 |
| Fluoride | < 0.200 | mg/l | 2355 | 8/26/04 | 10:05 |
| Sulfate | < 1.00 | mg/l | 7091 | 8/20/04 | 10:48 |
| Chlorine, residual | < 0.020 | mg/l | 9403 | 8/19/04 | 17:10 |
| Apparent Color | < 5. | Color Unit | 6578 | 8/20/04 | 16:00 |
| Phosphorus | < 0.100 | mg/l | 7933 | 8/23/04 | 11:01 |
| BOD 5 Day | < 2.00 | mg/l | 6634 | 8/24/04 | 21:15 |
| Detergents (MBAS) | < 0.0500 | mg/l | 6598 | 8/23/04 | 21:53 |
| Hardness | < 2.50 | mg/l | 7027 | 8/20/04 | 18:21 |
| Ammonia Nitrogen as N | < 0.100 | mg/l | 2297 | 8/26/04 | 9:59 |
| Total Organic Carbon | < 1.00 | mg/l | 6677 | 8/23/04 | 13:52 |
| Total Suspended Solids | < 1.0 | mg/l | 6671 | 8/20/04 | 19:15 |
| Total Suspended Solids | < 1.0 | mg/l | 6671 | 8/20/04 | 19:15 |
| Total Suspended Solids | < 1.0 | mg/l | 6909 | 8/20/04 | 19:15 |
| Sulfite | < 5.0 | mg/l | 6599 | 8/19/04 | 17:00 |
| Sulfide | < 1.000 | mg/l | 251 | 8/25/04 | 14:12 |
| Chloride | < 1.00 | mg/l | 8244 | 8/20/04 | 21:22 |
| Bromide | < 1.00 | mg/l | 7668 | 8/20/04 | 15:37 |
| Total Nitrogen | < 0.10 | mg/l | 7935 | 8/23/04 | 10:07 |
| Oil & Grease as HEM | < 5.00 | mg/l | 9478 | 8/25/04 | 15:53 |

End of Report for Project 386491

8/31/04 CASE NARRATIVE

**WESTERN KY ENERGY 8407**
**TOM SHAW**
**P.O. BOX 1518**
**HENDERSON, KY 42419-1518**

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: WILSON KPDES-ADDITIONAL
Project Number: .
Laboratory Project Number: 386491.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| 003 SD | 04-A128014 | |
| 007 SI0 | 04-A128015 | |
| 009 SSSP | 04-A128016 | |
| 008 PI | 04-A128017 | |
| 001 MP | 04-A128018 | |
| 005 MCP | 04-A128019 | |

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 8/26/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Sandra McMillin, Technical Services
Gail A. Lage, Technical Ser
Glenn L. Norton, Technical
Kelly S. Comstock, Technica
Roxanne L. Connor, Technica

Laboratory Certification Number: 90038

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-ADDITIONAL
Sampler: MICHAEL G.

Lab Number: 04-A128019
Sample ID: 005 MCP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/19/04
Time Received: 8:10
Page: 1

# WARNER LABORATORIES/EAC
INCORPORATED

Drinking Water
Cert# TN03073

**Consulting Chemists/Environmental Consultants**
**ESTABLISHED 1960**


Test America
Ashley Morris/Jennifer Chapman
2960 Foster Creighton Dr.
Nashville, TN 37204

Phone: 726-0177 Fax: 726-3404 August 23, 2004

## LABORATORY #59341

**PROJECT #386491**

Bacteriological evaluation of six water samples collected on 8/18/04, delivered to laboratory on 8/20/04 at 4:45 p.m.

| SAMPLE IDENTIFICATION | TIME SAMPLED | FECAL COLIFORM |
|---|---|---|
| IDENTIFICATION # 04a128014 003 | 1125 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128015 007 | 1155 | 8,400 CFU/100 mL |
| IDENTIFICATION # 04a128016 009 | 1210 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128017 008 | 920 | <2 CFU/100 mL |
| IDENTIFICATION # 04a128018 001 | 1140 | 14 CFU/100 mL |
| IDENTIFICATION # 04a128019 005 | 1105 | 16 CFU/100 mL |
| PRE BLANK #1 | | NEGATIVE |
| POST BLANK #2 | | NEGATIVE |

Test initiated 8-20-04 @ 6:30 p.m. by P. Williams.
Test completed 8-21-04 @ 4:40 p.m. by P. Williams.

Test performed according to method 9222, Membrane Filter Technique for Colifonn Group, as published in Standard Methods for the Examination of Water and Wastewater, as published by the American Public Health Association.

Respectfully Submitted,

James J. Balick

Warner Laboratories, Inc.

TestAmerica
INCORPORATED

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

# CHAIN OF CUSTODY RECORD 77

Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: TestAmerica Inc.

Address: 2960 Foster Creighton Drive

City/State/Zip: Nashville, TN 37204

Report To: Ashley Morris/Jennifer Chapman

Project Manager: Jennifer Chapman

P.O. #

Telephone Number: 615-301-5041 Fax No.: 615-726-3404

TA Quote #:

Sampler Name: (Print)

Project ID:

Sampler Signature:

Project #: 386491

59341

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red Label) | HCl (Blue Label) | NaOH ( Orange Label) | $H_2SO_4$ Plastic (Yellow Label) | $H_2SO_4$ Glass(Yellow Label) | None (Black Label) | Other ( Specify) | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify): | Analyze For: Fecal Coliform | RUSH TAT (Pre-Schedule) | Standard TAT | Fax Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04a128014 | 8/18/2004 | 11:25 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128015 | 8/18/2004 | 11:55 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128016 | 8/18/2004 | 12:10 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128017 | 8/18/2004 | 9:20 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128018 | 8/18/2004 | 11:40 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a128019 | 8/18/2004 | 11:05 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

**Method of Shipment:** FEDEX

**Laboratory Comments:**

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| Jennifer Chapman | 8/20/2004 | 12:40 | | | |
| Relinquished by: | Date | Time | Received by ~~TestAmerica~~: | Date | Time |
| | | | Shelly Martin | 8/20 | 4.45 PM |

# Warner Laboratories, Inc.

**No: 59341 Client: Test America**

Client No 446 Date 8/20/04

IDENTIFICATION 6 Water Samples labeled "04a128014 11 25 04a12815 - 11 55 04a128016 12 10 04a128017 - 9 20 04a128018 11 40, & 04a128019 - 11 05" collected 8/18/04 delivered to lab by client

Time Rec'd [illegible] PM

Analysis Req'd Fecal Coliform

## ANALYTICAL WORKSHEET
## TOTAL/FECAL COLIFORM

Project #/Client

Date Received

Date/Time/Analyst Initiated

Date/Time/Analyst Completed

| | | |
|---|---|---|
| 04a128014 | 04a128015 | 04a128016 |
| 50 ml - 0 | 50 ml - 1 | 50 ml - 0 |
| 10 ml - [illegible] | 10 ml - [illegible] | 10 ml - 0 |
| 1 ml - 0 | 1 ml - 24 | 1 ml - 0 |
| [illegible] | 2400 cfu/100ml | < 2 cfu/100ml |
| 04a128017 | 04a128018 | 04a128019 |
| 50 ml - 0 | 50 ml - 7 | 50 ml - 8 |
| 10 ml - 0 | 10 ml - 1 | 10 ml - 2 |
| 1 ml - 0 | 1 ml - 0 | 1 ml - 0 |
| <2 cfu/100ml | 14 cfu/100ml | 16 cfu/100ml |

Results Verified by

[illegible]

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

**386491**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy Client #: 8407
Address: 145 N. Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Mike Galbraith
Telephone Number: 270-844-6030 Fax: 270-844-6023
Sampler Name: (Print Name) Tom Shaw, Mike Galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 001 MP State: KY
Report To: Mike Galbraith
Invoice To: ~~Mike~~ attn: accounting
Quote #: 081604-212-PP PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Unpreserved Cond | Surfactants | Oil + grease | Nit, Phos, Cl, Fl | Sulfide | metals | TOC | | | | QC Deliverables: None / Level 2 (Batch QC) / Level 3 / Level 4 / Other | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 MP | 8-18-04 | 1140 | G | | WW | | | | | | X | | A | | | | | | 28018 | | | | 1000 ml x2 |
| 001 MP | | | | | | | | | | | X | | | X | | | | | | | | | ~~250ml~~ 500ml |
| 001 MP | | | | | | | | | X | | | | | | X | | | | | | | | 5 jars |
| 001 MP | | | | | | | | | X | | | | | | | X | | | | | | | |
| 001 MP | | | | | | | | X | | | | | | | | | X | | | | | | |
| 001 MP | | | | | | X | | | | | | | | | | | | X | | | | | |
| 001 MP | | | | | | | X | | | | | | | | | | | | | | | | |
| ~~001 MP~~ | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By | Date | Time | Received By | Date | Time |
|---|---|---|---|---|---|
| | 8-18-04 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 9:10 |

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Galbraith
Telephone Number: 270-844-6020 Fax: -6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 003 SD State: KY
Report To: Galbraith
Invoice To: attn accounting
Quote #: 081604-212-199 PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Nitrate/Nitrite | Surfactants | Oil + grease | NH3 Plus OrgN | Sulfide | metals | TOC | | | | QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 003 SD | 8-8-04 | 1125 | G | | WW | | | | | | X | | X | | | | | | 128014 | | | | | 1000ml HZ |
| 003 SD | | | | | | | | | | | X | | | X | | | | | | | | | | 500ml |
| 003 SD | | | | | | | | | X | | | | | X | | | | | | | | | | glass |
| 003 SD | | | | | | | | | X | | | | | | X | | | | | | | | | |
| 003 SD | | | | | | | | X | | | | | | | | X | | | | | | | | |
| 003 SD | | | | | | X | | | | | | | | | | | X | | | | | | | |
| 003 SD | | | | | | | X | | | | | | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
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Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | Received By: | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 8/19/04 | 8:10 |

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main St
City/State/Zip Code: Henderson KY 42419
Project Manager: Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) michael galbraith
Sampler Signature: Michael G

Project Name: Wilson KPDES - Addn Parameters
Project #:
Site/Location ID: 005 MCP  State: KY
Report To: Galbraith
Invoice To: attn: accounting
Quote #: 081604-212-199  PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: ___
Fax Results: Y (N)

QC Deliverables: ___ None; ___ Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ___

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Cmpos and | Surfactants | Oil + grease | Nit. Phos. CBD | Sulfide | metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 005 MCP | 8-18-04 | 1105 | G | | WW | | | | | | X | | X | | | | | | | 128019 | | | 1000ml x2 |
| 005 MCP | | | | | | | | | | | X | | | X | | | | | | | | | 500ml |
| 005 MCP | | | | | | | | | X | (2) | | | | | X | | | | | | | | 3 glass |
| 005 MCP | | | | | | | | | X | | | | | | | X | | | | | | | |
| 005 MCP | | | | | | | | X | | | | | | | | | X | | | | | | |
| 005 MCP | | | | | | X | | | | | | | | | | | | X | | | | | |
| 005 MCP | | | | | | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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Special Instructions:

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Michael G | 8-18-04 | 1500 | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 840 |

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City, State/Zip Code: Henderson KY 42419
Project Manager: galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES-Additional Parameters
Project #:
Site/Location ID: 007 SIO  State: KY
Report To: galbraith
Invoice To: atta accounting
Quote #: 081604-212-199  PO#:

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other: _____

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Metals and Sulfates | Sulfates | Air Toxics | Mt Pleas Coal | Sulfide | Metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 007SIO | 8-18-04 | 1155 | G | | WW | | | | | | X | | X | | | | | | | 1 | 2 | 8 | 0 | 5 | |
| 007SIO | | | | | | | | | | | X | | | X | | | | | | | | | | |
| 007SIO | | | | | | | | | X | | | | | | X | | | | | | | | | |
| 007SIO | | | | | | | | | X | | | | | | | X | | | | | | | | |
| 007SIO | | | | | | | | X | | | | | | | | | X | | | | | | | |
| 007SIO | | | | | | X | | | | | | | | | | | | X | | | | | | |
| 007SIO | | | | | | | X | | | | | | | | | | | | X | | | | | |
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Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | Received By: | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 8/19/04 | 8:10 |

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring YES

**386491**

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N. Main St
State/Zip Code: Henderson KY 42419
Project Manager: Galbraith
Telephone Number: 270-844-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES - Additional Parameters
Project #:
Site/Location ID: 008 PI  State: KY
Report To: Galbraith
Invoice To: attn: Accounting
Quote #: 081604-202-195  PO#:

TAT
X Standard
___ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y (N)

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Unfiltered Cond | Surfactants | Alkalinity as CaCO3 | Nit Phos Cl2 | Sulfide | Metals | TC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 008 PI | 8-18-04 | 0920 | G | | WW | | | | | | X | | X | | | | | | 1 | 2 | 8 | 0 | 7 |
| 008 PI | ↓ | ↓ | ↓ | | ↓ | | | | | | X | | | X | | | | | | | | | |
| 008 PI | | | | | | | | | X | | | | | | X | | | | | | | | |
| 008 PI | | | | | | | | | X | | | | | | | X | | | | | | | |
| 008 PI | | | | | | | | X | | | | | | | | | X | | | | | | |
| 008 PI | | | | | | X | | | | | | | | | | | | X | | | | | |
| 008 PI | | | | | | | X | | | | | | | | | | | | X | | | | |
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**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date | Time | Received By: | Date | Time |
|---|---|---|---|---|---|
| Relinquished By: | 8-18-04 | 1500 | | | |
| Relinquished By: | | | Received By: | | |
| Relinquished By: | | | Received By: | 9/1/04 | 8:10 |

TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

386491

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: galbraith
Telephone Number: 270-826-6030  Fax: 6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson ICPDES - Addn Parameters
Project #:
Site/Location ID: 009 SSSP  State: KY
Report To: Galbraith
Invoice To: Gitter accounting
Quote #: 081604-212-199  PO#:

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: Cyanides amen | Sulfides amen | Oil + grease | Nit Ams CBD | Sulfide | metals | TOC | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 009 SSSP | 8-18-04 | 1210 | G | | WW | | | | | | X | | X | | | | | | | 12 | 80 | 16 | |
| 009 SSSP | | | | | | | | | | | X | | | X | | | | | | | | | |
| 009 SSSP | | | | | | | | | X | | | | | | X | | | | | | | | |
| 009 SSSP | | | | | | | | | X | | | | | | | X | | | | | | | |
| 009 SSSP | | | | | | | | X | | | | | | | | | X | | | | | | |
| 009 SSSP | | | | | | X | | | | | | | | | | | | X | | | | | |
| 009 SSSP | | | | | | | X | | | | | | | | | | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
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Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By | Date: 8-18-04 | Time: 1500 | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: 8/19/04 | Time: 8:10 |

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-AP
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A132117
Sample ID: 002 NSSP
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/26/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/26/04 | 22:15 | | | |
| BOD 5 Day | 7.02 | mg/l | 2.00 | 1 | 8/31/04 | 22:05 | J. Hill | 405.1 | 3084 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.292 | mg/l | 0.100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Barium | 0.0650 | mg/l | 0.0100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Calcium, total | 618. | mg/l | 10.0 | 10 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Iron, total | 0.358 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Magnesium | 27.5 | mg/l | 1.00 | 1 | 8/30/04 | 15:18 | G McCord | 200.7 | 4640 |
| Manganese | 0.290 | mg/l | 0.0150 | 1 | 8/30/04 | 15:18 | G McCord | 200.7 | 4640 |
| Molybdenum | 1.61 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Boron | 7.69 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 27.0 | mg/l | 3.00 | 1 | 9/ 1/04 | 15:10 | S. Overton | 410.4 Mod | 5558 |
| Nitrate/Nitrite-N as N | ND | mg/l | 0.100 | 1 | 8/26/04 | 19:50 | W. Choate | 353.2 | 3330 |
| Fluoride | 2.26 | mg/l | 0.200 | 1 | 8/27/04 | 11:00 | T Beverly | 340.2MOD | 3505 |
| Sulfate | 1780 | mg/l | 50.0 | 50 | 8/27/04 | 10:05 | M.Shockley | 375.4 | 3633 |
| Chlorine, residual | 0.146 | mg/l | 0.0200 | 1 | 8/26/04 | 16:04 | T. Beverly | 330.5 | 3141 |
| Apparent Color | ND | Color Unit | | | 8/27/04 | 14:01 | T. Beverly | 110.2 | 3783 |
| Phosphorus | 0.139 | mg/l | 0.100 | 1 | 8/30/04 | 16:12 | K.Saiyasak | 365.4 | 3444 |

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

## *ANALYTICAL REPORT*

Laboratory Number: 04-A132117
Sample ID: 002 NSSP
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | ND | mg/l | 0.0500 | 1 | 8/26/04 | 20:31 | J. Hill | 425.1 | 3174 |
| Hardness | 1660 | mg/l | | | 8/30/04 | 15:18 | G.McCord | SM2340B | 4640 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/30/04 | 10:05 | K.Saiyasak | 350 1M | 4277 |
| Total Organic Carbon | 9.73 | mg/l | 1.00 | 1 | 8/26/04 | 12:51 | S. Prayter | 415.1 | 2811 |
| Total Suspended Solids | 5.20 | mg/l | 4.00 | 4 | 8/26/04 | 23:30 | J. Hill | 160.2 | 3304 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/26/04 | 19:20 | W. Choate | 377.1 | 3343 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/28/04 | 21:00 | K.Saiyasak | 376 1 | 5001 |
| Chloride | 166. | mg/l | 10.0 | 10 | 8/26/04 | 23:25 | W. Choate | 325.2 | 3384 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/26/04 | 17:11 | G. Baun | 300 | 2712 |
| Total Nitrogen | 3.17 | mg/l | 0.100 | 1 | 8/28/04 | 13:28 | K.Saiyasak | SM-4500 | 3443 |
| Oil & Grease as HEM | ND | mg/l | 5.10 | 1 | 8/31/04 | 14:07 | M. Ricke | 1664A | 3217 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project:
Project Name: WILSON KPDES-AP
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A132118
Sample ID: 006 LTB
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 8/26/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| BOD Set Up | | | | | 8/26/04 | 22:15 | | | |
| BOD 5 Day | ND | mg/l | 2.00 | 1 | 8/31/04 | 22:05 | J. Hill | 405.1 | 3084 |
| *METALS* | | | | | | | | | |
| Aluminum | 0.692 | mg/l | 0.100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Barium | 0.282 | mg/l | 0.0100 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Calcium, total | 376. | mg/l | 10.0 | 10 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Cobalt | ND | mg/l | 0.0200 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Iron, total | 0.677 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Magnesium | 74.0 | mg/l | 1.00 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Manganese | 0.139 | mg/l | 0.0150 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Molybdenum | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Tin | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Titanium | ND | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| Boron | 1.34 | mg/l | 0.0500 | 1 | 8/30/04 | 15:18 | G.McCord | 200.7 | 4640 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Chemical Oxygen Demand | 30.0 | mg/l | 3.00 | 1 | 9/ 1/04 | 15:10 | S. Overton | 410.4 Mod | 5558 |
| Nitrate/Nitrite-N as N | 8.53 | mg/l | 0.100 | 1 | 8/26/04 | 19:50 | W. Choate | 353.2 | 3330 |
| Fluoride | 1.14 | mg/l | 0.200 | 1 | 8/27/04 | 11:00 | T. Beverly | 340.2MOD | 3505 |
| Sulfate | 970. | mg/l | 50.0 | 50 | 8/27/04 | 10:05 | M.Shockley | 375.4 | 3633 |
| Chlorine, residual | 0.0360 | mg/l | 0.0200 | 1 | 8/26/04 | 16:04 | T. Beverly | 330.5 | 3141 |
| Apparent Color | ND | Color Unit | | | 8/27/04 | 14:01 | T. Beverly | 110.2 | 3783 |
| Phosphorus | 0.427 | mg/l | 0.100 | 1 | 8/30/04 | 16:12 | K.Saiyasak | 365.4 | 3444 |

Sample report continued . . .

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

*ANALYTICAL REPORT*

Laboratory Number: 04-A132118
Sample ID: 006 LTB
Project:


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Detergents (MBAS) | 0.0871 | mg/l | 0.0500 | 1 | 8/26/04 | 20:31 | J. Hill | 425.1 | 3174 |
| Hardness | 1240 | mg/l | | | 8/30/04 | 15:18 | G.McCord | SM2340B | 4640 |
| Ammonia Nitrogen as N | ND | mg/l | 0.100 | 1 | 8/30/04 | 10:05 | K.Saiyasak | 350.1M | 4277 |
| Total Organic Carbon | 13.3 | mg/l | 1.00 | 1 | 8/26/04 | 12:51 | S. Prayter | 415.1 | 2811 |
| Total Suspended Solids | 21.2 | mg/l | 4.00 | 4 | 8/26/04 | 23:30 | J. Hill | 160.2 | 3304 |
| Sulfite | ND | mg/l | 5.00 | 1 | 8/26/04 | 19:20 | W. Choate | 377.1 | 3343 |
| Sulfide | ND | mg/l | 1.00 | 1 | 8/28/04 | 21:00 | K.Saiyasak | 376.1 | 5001 |
| Chloride | 85.0 | mg/l | 5.00 | 5 | 8/26/04 | 23:26 | W. Choate | 325.2 | 3384 |
| Bromide | ND | mg/l | 1.00 | 1 | 8/26/04 | 17:11 | G. Baun | 300 | 2712 |
| Total Nitrogen | 9.72 | mg/l | 0.100 | 1 | 8/28/04 | 13:28 | K.Saiyasak | SM-4500 | 3443 |
| Oil & Grease as HEM | ND | mg/l | 5.00 | 1 | 8/31/04 | 14:07 | M. Ricke | 1664A | 3217 |

MBAS calculated as LAS, molecular weight 320.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.
M = COD method modified for HACH Method 8000.
M = Distillation not performed, results may not be suitable for regulatory reporting.
M = Method 350.1 modified for manual distillation with Lachat procedure.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
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*PROJECT QUALITY CONTROL DATA*
*Project Number:*
*Project Name: WILSON KPDES-AP*
*Page: 1*
*Laboratory Receipt Date: 8/26/04*

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C | Batch Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| Aluminum | mg/l | 7.11 | 9.77 | 2.00 | 133# | 70. - 130. | 4640 | '132619 |
| Barium | mg/l | 0.0200 | 2.04 | 2.00 | 101 | 70. - 130. | 4640 | '132619 |
| Cobalt | mg/l | < 0.0200 | 0.516 | 0.500 | 103 | 70. - 130. | 4640 | '132619 |
| Iron, total | mg/l | 0.511 | 1.49 | 1.00 | 98 | 70. - 130. | 4640 | '132619 |
| Manganese | mg/l | < 0.0150 | 0.510 | 0.500 | 102 | 70. - 130. | 4640 | '132619 |
| Molybdenum | mg/l | < 0.0500 | 0.528 | 0.500 | 106 | 70. - 130. | 4640 | '132619 |
| Tin | mg/l | < 0.0500 | 1.18 | 1.00 | 118 | 70. - 130. | 4640 | '132619 |
| Titanium | mg/l | < 0.0500 | 0.978 | 1.00 | 98 | 70. - 130. | 4640 | '132619 |
| Boron | mg/l | < 0.0500 | 1.12 | 1.00 | 112 | 70. - 130. | 4640 | '132619 |
| **MISC PARAMETERS** | | | | | | | | |
| Chemical Oxygen Demand | mg/l | 27.0 | 77.0 | 50.0 | 100 | 90. - 110. | 5558 | 04-A132117 |
| Chemical Oxygen Demand | mg/l | 9.00 | 50.0 | 50.0 | 82# | 90. - 110. | 5558 | 04-A132678 |
| Fluoride | mg/l | 0.310 | 2.46 | 2.00 | 108 | 79. - 125. | 3505 | 04-A131996 |
| Phosphorus | mg/l | 0.196 | 2.14 | 2.00 | 97 | 80. - 120. | 3444 | 04-A130704 |
| Detergents (MBAS) | mg/l | < 0.0500 | 0.744 | 0.750 | 99 | 71. - 117. | 3174 | 04-A132117 |
| Ammonia Nitrogen as N | mg/l | 0.360 | 5.42 | 5.00 | 101 | 90. - 110. | 4277 | 04-A132124 |
| Total Organic Carbon | mg/l | 6.01 | 28.2 | 20.0 | 111 | 71. - 140. | 2811 | 04-A131905 |
| Sulfite | mg/l | < 5.0 | 19.6 | 20.0 | 98 | 20. - 165. | 3343 | 04-A132117 |
| Sulfide | mg/l | < 1.000 | 19.90 | 20.00 | 100 | 63. - 127. | 5001 | 04-A132117 |
| Chloride | mg/l | 9.31 | 18.5 | 10.0 | 92 | 71. - 123. | 3384 | 04-A131706 |
| Total Nitrogen | mg/l | 4.59 | 6.64 | 2.50 | 82# | 90. - 110. | 3443 | 04-A130704 |
| Oil & Grease as HEM | mg/l | < 5.00 | 38.7 | 40.0 | 97 | 78. - 114. | 3217 | blank |

Project QC continued . . .

# WARNER LABORATORIES/EAC
**INCORPORATED**

Drinking Water
Cert# TN03073

**Consulting Chemists/Environmental Consultants**
**ESTABLISHED 1960**

Test America
Ashley Morris/Jennifer Chapman
2960 Foster Creighton Dr.
Nashville, TN 37204

Phone: 726-0177 Fax: 726-3404 August 27, 2004

## LABORATORY #59541

**PROJECT #SDG 386486**

Bacteriological evaluation of two water samples collected on 8/25/04, delivered to laboratory on 8/26/04 at 3:00 p.m.

| SAMPLE IDENTIFICATION | TIME SAMPLED | FECAL COLIFORM |
|---|---|---|
| IDENTIFICATION # 04a132117002 | 1115 | 480 CFU/100 mL |
| IDENTIFICATION # 04a132118 006 | 1150 | 740 CFU/100 mL |
| PRE BLANK #I | | NEGATIVE |
| POST BLANK #2 | | NEGATIVE |

Test initiated 8-26-04 @ 3:30 p.m. by Paul Williams.
Test completed 8-27-04 @ 3:25 p.m. by Christa Lynch.

Test performed according to method 9222, Membrane Filter Technique for Coliform Group, as published in Standard Methods for the Examination of Water and Wastewater, as published by the American Public Health Association.

Respectfully Submitted,

Warner Laboratories, Inc.

TestAmerica

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

# CHAIN OF CUSTODY RECORD

To assist us in using the proper analytical methods is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes No

Enforcement Action? Yes No

Client Name/Account #: TestAmerica Inc.

Address: 2960 Foster Creighton Drive

City/State/Zip: Nashville, TN 37204

Report To: Ashley Morris/Jennifer Chapman

Project Manager: Jennifer Chapman

P.O. #

Telephone Number: 615-301-5041 Fax No.: 615-726-3404

TA Quote #:

Sampler Name: (Print)

Project ID:

Sampler Signature:

Project #: 387287

59541

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | Preservative: $HNO_3$ (Red Label) | Preservative: HCl (Blue Label) | Preservative: NaOH (Orange Label) | Preservative: $H_2SO_4$ Plastic (Yellow Label) | Preservative: $H_2SO_4$ Glass(Yellow Label) | Preservative: None (Black Label) | Preservative: Other (Specify) | Matrix: Groundwater | Matrix: Wastewater | Matrix: Drinking Water | Matrix: Sludge | Matrix: Soil | Matrix: Other (specify) | Analyze For: Fecal Coliform | RUSH TAT (Pre-Schedule) | Standard TAT | Fax Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04a132117 | 8/25/2004 | 11:15 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |
| 04a132118 | 8/25/2004 | 11:50 | 1 | x | | | | | | | | | | | | | | | | | x | | x | | |

Special Instructions:

Method of Shipment: FEDEX

Laboratory Comments:

Temperature Upon Receipt:

VOCs Free of Headspace? Y N

| Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|
| | | | | | |
| Relinquished by | Date | Time | Received by TestAmerica | Date | Time |
| Shelley A Martin | 8/26/04 | 3:00 PM | | | |

**Warner Laboratories, Inc.**

No: 59541 Client: Test America

Client No: 436 Date: 08/26/04

[illegible]

[illegible]

Analysis Req'd: Fecal Coliform

ANALYTICAL WORKSHEET
TOTAL/FECAL COLIFORM

Project #/Client Test America 9541
Date Received 08/27/04
Date Time Analyst Initiated 08/26/04 3:30 PM
Date Time Analyst Completed 08/27/04 3:25 CA

9541

2117 - 1ML - 4
2117 - 10ML - 48/=480 CFU per 100 MLS (Passed)
2117 - 50ML - TNTC

2118 - 1ML - 4
2118 - 10ML - 74 = 740 / CFU per 100 MLS
2118 50ML - TNTC (Passed)

pre-e
post-e

Results Verified by

# 2003
# D.B. Wilson

| | Flow & Conduit | TEMP Avg | TEMP max | Month 2002 |
|---|---|---|---|---|
| 0011 | 13.68 | 49 | 58 | 12 |
| 0021 | — | — | | 12 |
| 0031 | — | — | | 12 |
| 0051 | — | — | | 12 |
| 0061 | 1.44 | 8.2 | | 12 |
| 0071 | 0.004 | | | 12 |
| 0081 | 13.68 | 47 | 50 | 12 |
| | | | | |
| 0011 | 13.68 | 40 | 53 | 1 |
| 0021 | 0.195 | — | | 1 |
| 0031 | 2.16 | — | | 1 |
| 0051 | — | — | | 1 |
| 0061 | 1.44 | — | | 1 |
| 0071 | 0.004 | — | | 1 |
| 0081 | 13.68 | 50 | 59 | 1 |
| | | | | |
| 001 | 13.68 | 38 | 50 | 2 |
| 002 | — | — | | 2 |
| 003 | — | — | | 2 |
| 005 | — | — | | 2 |
| 006 | 1.44 | — | | 2 |
| 007 | 0.004 | — | | 2 |
| 008 | 13.68 | 43 | 50 | 2 |

2003

Wilson

| | Flow & Conduit | Temp Aug. | Temp max | Month |
|---|---|---|---|---|
| 001 | 13.68 | 59 | 71 | 3 |
| 002 | — | — | | 3 |
| 003 | — | — | | 3 |
| 005 | — | — | | 3 |
| 006 | — | — | | 3 |
| 007 | 0.004 | — | | 3 |
| 008 | 13.68 | 51 | 58 | 3 |
| 009 | — | — | | 3 |
| 001 | 13.68 | 70 - | 77 | 4 |
| 002 | — | — | | 4 |
| 003 | — | — | | 4 |
| 005 | — | — | | 4 |
| 006 | 1.44 | — | | 4 |
| 007 | 0.004 | — | | 4 |
| 008 | 13.68 | 61 | 67 | 4 |
| 009 | — | — | | 4 |
| 001 | 13.68 | 77 | 82 | 5 |
| 002 | 0.28 | — | | 5 |
| 003 | 2.16 | — | | 5 |
| 005 | — | — | | 5 |
| 006 | 1.44 | — | | 5 |
| 007 | 0.004 | — | | 5 |
| 008 | 13.68 | 69 | 72 | 5 |
| 009 | — | — | | 5 |

2003
Wilson

| | Flow & Conduit | Temp | | Month |
|---|---|---|---|---|
| 001 | 13.68 | 83 | 89 | 6 |
| 002 | — | — | | 6 |
| 003 | — | — | | 6 |
| 005 | — | — | | 6 |
| 006 | 1.44 | — | | 6 |
| 007 | 0.004 | — | | 6 |
| 008 | 13.68 | 74 | 79 | 6 |
| 009 | — | — | | 6 |
| 001 | 13.68 | 88 | 92 | 7 |
| 002 | 0.67 | [redacted] | — | 7 |
| 003 | 2.16 | — | | 7 |
| 005 | — | — | | 7 |
| 006 | 1.44 | — | | 7 |
| 007 | 0.004 | — | | 7 |
| 008 | 13.68 | 84 | 87 | 7 |
| 009 | — | — | | 7 |
| 001 | 13.68 | 88 | 91 | 8 |
| 002 | — | — | | 8 |
| 003 | — | — | | 8 |
| 005 | — | — | | 8 |
| 006 | 1.44 | — | | 8 |
| 007 | 0.004 | — | | 8 |
| 008 | 13.68 | 87 | 91 | 8 |
| 009 | — | — | | 8 |

2003
Wilson

| | Flow & Conduit | Temp | | Month |
|---|---|---|---|---|
| 001 | 13.68 | 80 | 89 | 9 |
| 002 | — | — | | 9 |
| 003 | — | — | | 9 |
| 005 | — | — | | 9 |
| 006 | 1.44 | — | | 9 |
| 007 | 0.004 | — | | 9 |
| 008 | 13.68 | 77 | 89 | 9 |
| 009 | — | — | | 9 |
| | | | | |
| 001 | 13.68 | 71 | 77 | 10 |
| 002 | — | — | | 10 |
| 003 | — | — | | 10 |
| 005 | — | — | | 10 |
| 006 | 1.44 | — | | 10 |
| 007 | 0.004 | — | | 10 |
| 008 | 13.68 | 68 | 94 | 10 |
| 009 | — | — | | 10 |
| | | | | |
| 001 | 13.68 | 65 | 80 | 11 |
| 002 | 0.67 | — | | 11 |
| 003 | 2.16 | — | | 11 |
| 005 | — | — | | 11 |
| 006 | 1.44 | — | | 11 |
| 007 | 0.004 | — | | 11 |
| 008 | 13.68 | 60 | 65 | 11 |
| 009 | — | — | | 11 |

2003

Wilson

| | Flow & Conduct | Temp | | Month |
|---|---|---|---|---|
| 001 | 13.68 | 54 | 72 | 12 |
| 002 | — | — | | 12 |
| 003 | — | — | | 12 |
| 005 | 1.6 | — | | 12 |
| 006 | 1.44 | — | | 12 |
| 007 | 0.004 | — | | 12 |
| 008 | 13.68 | 48 | 54 | 12 |
| 009 | — | — | | 12 |

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107982
Sample ID: 006 CTB
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:20
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 006 CTB
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Chloroform | 0.0078 | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| cis 1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 22:27 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 22:27 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 22:27 | J.Haley | 624 |
| *METALS* | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Copper | 0.0230 | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Nickel | 0.0110 | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 101. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 106. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 48. | 12. - 135. |
| surr-2-Fluorobiphenyl | 60. | 14. - 132. |
| surr-Terphenyl d14 | 90. | 11. - 142. |
| surr-Phenol d5 | 29. | 5. - 79. |
| surr-2-Fluorophenol | 28. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 42. | 7. - 155. |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 006 CTB
Project: PRIORITY POLLUTA
Page 3

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107979
Sample ID: 002 NSSP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 9:45
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 002 NSSP
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 |

ND 2° N. L

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *METALS* | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Arsenic | 0.377 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Cadmium | 0.0010 | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Selenium | 0.0250 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 105. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 44. | 12. - 135. |
| surr-2-Fluorobiphenyl | 51. | 14. - 132. |
| surr-Terphenyl d14 | 78. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 13. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 40. | 7. - 155. |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 002 NSSP
Project: PRIORITY POLLUTA
Page 3

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM
# FORM C – INSTRUCTIONS

Listed below are explanations of select Form C questions. If further information is needed concerning any questions, please contact the Division of Water, at (502) 564-3410.

## I. OUTFALL LOCATION

Use the map you provided for Item III of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. Group similar operations into a single unit and label to correspond to the more detailed listing in Item II.B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. Use actual measurements whenever available. Otherwise, use your best estimate.

B. List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower"). Estimate the flow contributed by each source if no data are available. For storm water, use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time; and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order. Select the proper code from Table C-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you have listed.

If the permit application is for a privately-owned treatment works, you must also identify all of your contributors in an attached listing.

C. A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharge. Base your answers on actual data whenever available, otherwise, provide your best estimate. Report the highest daily for flow rate and total volume in the "Maximum Daily" columns (columns 4-a-2 and 4-b-2). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (columns 4-a-1 and 4-b-1).

## III. MAXIMUM PRODUCTION

A. If you are unsure whether you are covered by a promulgated effluent guideline, check with the Department for Environmental Protection, Division of Water. You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operation, you may check "no."

B. An effluent guideline is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter, for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one that limits the concentration of pollutants.

C. This item must be completed only if you check "yes" to Item III.B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated.

Report quantities in the units of measurements used in the applicable effluent guidelines. The figures provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation. But these figures may not be based on design capacity or on predictions of future increases in operation.

If you have two or more substantially identical outfalls, request permission from the Division of Water to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is

granted, identify on a separate sheet attached to the application form the outfall tested, and describe why the outfalls not tested are substantially identical to the tested outfall.

## IV. IMPROVEMENTS

A. If you check "yes" to this question, complete all parts of the chart or attach a copy of any previous submission you have made to the Department for Environmental Protection containing the same information.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

This item requires you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

**GENERAL INSTRUCTIONS**

In the "Mark X" columns of Parts B and C mark only one box per pollutant. Part D requires you to list any of a group of pollutants which you believe to be present, with a brief explanation of why you believe it to be present. See specific instruction on the form and below for Parts A through D.

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believed Present" but "X" in that "Intake" column.

**REPORTING**

All levels must be reported as concentration and as total mass. Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

| CONCENTRATIONS | | MASS | |
|---|---|---|---|
| ppm | parts per million | lbs. | Pounds |
| mg/l | milligrams per liter | ton | Tons (english tons) |
| ppb | parts per billion | mg | Milligrams |
| µg/l | micrograms per liter | g | Grams |
| | | kg | Kilograms |
| | | T | Tonnes (metric tons) |
| | | MGD | Million Gallons Per Day |

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "Number of Analyses" columns (columns 2-a and 2-d, Part A, and columns 3-a and 3-d, Parts B and C).

For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period. For grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long-Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C). Also report the total number of daily values under the "Number of Analyses" columns (column 2-d, Part A, and column 3-d, Parts B and C). Determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-Day Values" columns (2-b, Part A, and column 3-b, Parts B and C).

## SAMPLING

The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact the Department for Environmental Protection or appropriate regional office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets.

## ANALYSIS

Use test methods promulgated in 40 CFR Part 136; however, if none have been promulgated for a particular pollutant, use any suitable methods for measuring the level of the pollutant in your discharge provided that you submit a description of the methods or a reference to a published method. Your description should include the sample holding times, preservation techniques, and the quality control measures used.

## REPORTING OF INTAKE DATA

You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, effluent limitations adjusted by subtracting the average level of the pollutant(s) present in your intake water. 401 KAR 5:065, Section 3(7), allows net limitations only in certain circumstances. To demonstrate your eligibility, report the average of the results of analysis on your intake water in the "Intake" columns (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

1. A statement that the intake and discharge are from the same water body (Otherwise, you are not eligible for net limitations);
2. A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater (Your limitations will be adjusted only to the extent that the pollutant is not removed);
3. When applicable (for example, when the pollutant represents a class of compounds), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in your discharge. (Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.)

## SPECIFIC INSTRUCTIONS

A. This part must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Division of Water may waive the requirements to test for one or more of these pollutants upon a determination that testing for the pollutant(s) is not appropriate for your effluents.

   Use grab samples for pH and temperature. Use composite samples for all pollutants in this part. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long-Term Average Values" column (column 2-c) and "Maximum 30-Day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

B. This part must be completed by all applicants for all outfalls including those containing only noncontact cooling water or storm runoff.

   Use composite samples for all pollutants you analyze in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long-Term Average Values" column (column 3-b) are not compulsory but should be filled out if data are available.

C. Table C-2 lists the 34 "primary" industry categories in the left-hand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (column 2-a) and test for: (A) all of the toxic metals, cyanide, and total phenols; and (B) the organic toxic pollutants contained in the gas chromatography/mass spectrometry (GC/MS) fractions indicated in Table C-2 as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS fractions on pages V-4 through V-10 in Part V-C. For example, the Organic Chemical industry has an "X" in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. If you are applying for a permit for a

privately owned treatment works, determine your testing contributors. The industry category you use for testing requirements is not used to categorize you for any other purpose.

For all other cases (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-b) or the "Believed Absent" column (column 2-c) for each pollutant, and test for those you believe present (those marked "X" in column 2-b). If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants listed on page V-4 through V-10 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long-Term Average Values" column (column 3-c) and "Maximum 30-Day Values" column (column 3-b) are not compulsory but should be filled out if data are available.

Use grab samples for total phenols and cyanide. Use composite samples for all other pollutants in this part.

Mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T);
B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP);
C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon);
D. 0, 0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel);
E. 2,4,5-trichlorophenol (TCP); or
F. Hexachlorophene (HCP)

If you mark "Testing Required" or "Believed Present" you must perform a screening analysis for dioxins, using gas chromotography with an electron capture detector. A TCDD standard for quantification is not required. Describe the results of this analysis in the space provided, for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." You may be required to perform a quantitative analysis if you report a positive result.

The Engineering and Analysis Division of EPA has collected and analyzed samples from some facilities for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents were sampled and analyzed as part of this program in the last three years, you may use this data to answer Part C. This may be done provided that no process change or change in raw materials, process or operating practices has occurred since the samples were taken which would make the analyses unrepresentative of your current discharge.

**Small Business Exemption**

If you qualify as a "small business," under 401 KAR 5:060, Section 2(8) you are exempt from the reporting requirements for the organic toxic pollutants listed on pages 9 through 18 in Part C. If your facility is a coal mine with a probable total annual production of less than 100,000 tons, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR Section 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than $100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants.

The production or sales data must be for the facility that is the source of the discharge. The data should not be limited to production or sales for the process or processes that contribute to the discharge, unless those are the only processes of your facility. For sales data, in situations involving intra-corporate transfers of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product prices deflator (second quarter of 1980 = 100). This index is available in "National Income and Product Accounts of the United States" (U.S. Department of Commerce, Bureau of Economic Analysis).

D. List any pollutants in Table C-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it also.

**NOTE:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table C-3 of these instructions) may be exempted from the requirements of Section 311 of the Clean Water Act (33 USC Section 1321), which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substance are identified in the KPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirement of Section 311, attach additional sheets of paper to your form, setting forth the following information:

A. the substance and the amount of each substance which may be discharged;
B. the origin and source of the discharge of the substance;
C. the treatment which is provided or to be provided for the discharge by:

1. an on-site treatment system separate from any treatment system treating your normal discharge;
2. a treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
3. any combination of the above.

See 40 CFR Section 117.12(a)(2) and (c), published on August 29, 1979, or contact the Division of Water for further information on exclusions from Section 311.

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. You may not claim this information as confidential. However, you do not have to distinguish between use of production of the pollutants or list the amounts. Under KPDES regulations, your permit will contain limits to control all pollutants you report in answer to this question, as well as pollutants reported in Item V and VI.B at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you begin or expect to begin to use or manufacture any toxic pollutant as an immediate or final product or byproduct which you did not report here. Your permit may be modified at that time if necessary to control that pollutant.

B. Consider only those variations which may result in the concentrations of pollutants in effluents which exceed twice the maximum values you reported in Item V. These variations may be part of your routing operations, or part of your regular cleaning cycles.

Under KPDES regulations, your permit will contain limits to control any pollutant that you report in this item at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you know or have reason to believe that any toxic pollutant two times the maximum values reported in Item V-C or in this item. Your permit may be modified at that time if necessary to control the pollutant.

Do not consider variations that are the result of bypasses or upsets. Increased levels of pollutants that are discharged as a result of bypasses or upsets are regulated separately under KPDES regulations.

C. Variation exemptions to be described here include:

Changes in raw or intermediate materials
Changes in process equipment or materials;
Changes in product lines;
Significant chemical reactions among pollutants in waste streams; and
Significant variation in removal efficiencies of pollution control equipment.

You may indicate other types of variations as well, except those that are the result of bypasses or upsets. You may be required to further investigate or document variations you report here.

Base your prediction on expected levels of these pollutants upon your knowledge of your processes, raw materials, past and projected product ranges, etc., or upon any testing of your effluent which indicates the range of variability that can be expected over the next five years.

**EXAMPLE:** Outfall 001 discharges water used to clean six 500-gallon tanks. These tanks are used for formulation of dispersions of synthetic resins in water (adhesives). Use of toxic pollutants which can be expected in the next 5 years is:

1. copper acetate inhibitor, 1/2 lb. per tank;
2. dibutyl phthalate, 50 lbs. per tank;
3. toluene, 5 lbs. per tank; and
4. antimony oxide, 1 lb. per tank.

Based on normal cleaning, an average of 1% and a maximum of 3% of the contents of each tank is collected and discharged once every two weeks in the 150 gallons of water used for cleaning. Treatment (pH adjustment, flocculation, filtration) removes 85% of metals and 50% of organic compounds.

## IX. CERTIFICATION

The certification is to be signed as follows:

Corporation: by a principal officer of at least the level of vice president.

Partnership or sole proprietorship: by a general partner or the proprietor, respectively.

Municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

# TABLE C-1
# CODES FOR TREATMENT UNITS
# (For use with Form C, Item II, Part B)

### PHYSICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 1-A | Ammonia Stripping | 1-M | Grit Removal |
| 1-B | Dialysis | 1-N | Microstraining |
| 1-C | Diatomaceous Earth Filtration | 1-O | Mixing |
| 1-D | Distillation | 1-P | Moving Bed Filters |
| 1-E | Electrodialysis | 1-Q | Multimedia Filtration |
| 1-F | Evaporation | 1-R | Rapid Sand Filtration |
| 1-G | Flocculation | 1-S | Reverse Osmosis (Hyperfiltration) |
| 1-H | Flotation | 1-T | Screening |
| 1-I | Foam Fractionation | 1-U | Sedimentation (Settling) |
| 1-J | Freezing | 1-V | Slow Sand Filtration |
| 1-K | Gas-Phase Separation | 1-W | Solvent Extraction |
| 1-L | Grinding (Comminutors) | 1-X | Sorption |

### CHEMICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 2-A | Carbon Adsorption | 2-G | Disinfection (Ozone) |
| 2-B | Chemical Oxidation | 2-H | Disinfection (Other) |
| 2-C | Chemical Precipitation | 2-I | Electrochemical Treatment |
| 2-D | Coagulation | 2-J | Ion Exchange |
| 2-E | Dechlorination | 2-K | Neutralization |
| 2-F | Disinfection (Chlorine) | 2-L | Reduction |

### BIOLOGICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 3-A | Activated Sludge | 3-E | Pre-Aeration |
| 3-B | Aerated Lagoons | 3-F | Spray Irrigation/Land Application |
| 3-C | Anaerobic Treatment | 3-G | Stabilization Ponds |
| 3-D | Nitrification-Denitrification | 3-H | Trickling Filtration |

### OTHER PROCESSES

| | | | |
|---|---|---|---|
| 4-A | Discharge to Surface Water | 4-C | Reuse/Recycle of Treated Effluent |
| 4-B | Ocean Discharge Through Outfall | 4-D | Underground Injection |

### SLUDGE TREATMENT AND DISPOSAL PROCESSES

| | | | |
|---|---|---|---|
| 5-A | Aerobic Digestion | 5-M | Heat Drying |
| 5-B | Anaerobic Digestion | 5-N | Heat Treatment |
| 5-C | Belt Filtration | 5-O | Incineration |
| 5-D | Centrifugation | 5-P | Land Application |
| 5-E | Chemical Conditioning | 5-Q | Landfill |
| 5-F | Chlorine Treatment | 5-R | Pressure Filtration |
| 5-G | Composting | 5-S | Pyrolysis |
| 5-H | Drying Beds | 5-T | Sludge Lagoons |
| 5-I | Elutriation | 5-U | Vacuum Filtration |
| 5-J | Flotation Thickening | 5-V | Vibration |
| 5-K | Freezing | 5-W | Wet Oxidation |
| 5-L | Gravity Thickening | | |

## TABLE C-2
## TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY
**(For use with Form C, Item V, Part C)**

| FRACTION* / INDUSTRY CATEGORY | GC/MS Volatile | Acid | Base/Neutral | Pesticide |
|---|---|---|---|---|
| Adhesives and sealants | x | x | x | - |
| Aluminum forming | x | x | x | - |
| Auto and other laundries | x | x | x | x |
| Battery manufacturing | x | - | x | - |
| Coal mining | x | x | x | x |
| Coil coating | x | x | x | - |
| Copper forming | x | x | x | - |
| Electric and electronic compounds | x | x | x | x |
| Electroplating | x | x | x | - |
| Explosives manufacturing | - | x | x | - |
| Foundries | x | x | x | |
| Gum and wood chemicals | x | x | x | x |
| Inorganic chemicals manufacturing | x | x | x | - |
| Iron and steel manufacturing | x | x | x | - |
| Leather tanning and finishing | x | x | x | x |
| Mechanical products manufacturing | x | x | x | - |
| Nonferrous metals manufacturing | x | x | x | x |
| Ore mining | x | x | x | x |
| Organic chemicals manufacturing | x | x | x | x |
| Paint and ink formulation | x | x | x | - |
| Pesticides | x | x | x | x |
| Petroleum refining | x | x | x | x |
| Pharmaceutical preparation | x | x | x | - |
| Photographic equipment and supplies | x | x | x | x |
| Plastic and synthetic materials manufacturing | x | x | x | x |
| Plastic processing | x | - | - | - |
| Porcelain enameling | x | - | x | x |
| Printing and publishing | x | x | x | x |
| Pulp and paperboard mills | x | x | x | x |
| Rubber Processing | x | x | x | - |
| Soap and detergent manufacturing | x | x | x | - |
| Steam electric power plants | x | x | x | - |
| Textile mills | x | x | x | x |
| Timber products processing | x | x | x | x |

* **The pollutants in each fraction are listed in item V-C.**

x = **Testing required.**

\- = **Testing not required.**

# TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT

**(For use with Form C, Item V, Part D)**

## TOXIC POLLUTANT

Asbestos

## HAZARDOUS SUBSTANCES

| | | | | | |
|---|---|---|---|---|---|
| 1. | Acetaldehyde | 35. | Ammonium thiocyanate | 69. | Calcium chromate |
| 2. | Acetic Acid | 36. | Ammonium thiosulfate | 70. | Calcium cyanide |
| 3. | Acetic anhydride | 37. | Amyl acetate | 71. | Calcium dodecylbenzenesulfonate |
| 4. | Acetone cyanohydrin | 38. | Aniline | 72. | Calcium hypochlorite |
| 5. | Acetyl bromide | 39. | Antimony pentachloride | 73. | Captan |
| 6. | Acetyl chloride | 40. | Antimony potassium tartrate | 74. | Carbaryl |
| 7. | Acrolein | 41. | Antimony tribromide | 75. | Carbofuran |
| 8. | Acrylonitrile | 42. | Antimony trichloride | 76. | Carbon disulfide |
| 9. | Adipic acid | 43. | Antimony trifluoride | 77. | Carbon tetrachloride |
| 10. | Aldrin | 44. | Antimony trioxide | 78. | Chlordane |
| 11. | Allyl alcohol | 45. | Arsenic disulfide | 79. | Chlorine |
| 12. | Allyl chloride | 46. | Arsenic pentoxide | 80. | Chlorobenzene |
| 13. | Aluminum sulfate | 47. | Arsenic trichloride | 81. | Chloroform |
| 14. | Ammonia | 48. | Arsenic trioxide | 82. | Chloropyrifos |
| 15. | Ammonium acetate | 49. | Arsenic trisulfide | 83. | Chlorosulfonic acid |
| 16. | Ammonium benzoate | 50. | Barium cyanide | 84. | Chromic acetate |
| 17. | Ammonium bicarbonate | 51. | Benzene | 85. | Chromic acid |
| 18. | Ammonium bichromate | 52. | Benzoic acid | 86. | Chromic sulfate |
| 19. | Ammonium bifluoride | 53. | Benzonitrile | 87. | Chromous chloride |
| 20. | Ammonium bisulfite | 54. | Benzoyl chloride | 88. | Cobaltous bromide |
| 21. | Ammonium carbamate | 55. | Benzyl chloride | 89. | Cobaltous formate |
| 22. | Ammonium carbonate | 56. | Beryllium chloride | 90. | Cobaltous sulfamate |
| 23. | Ammonium chloride | 57. | Beryllium fluoride | 91. | Coumaphos |
| 24. | Ammonium chromate | 58. | Beryllium nitrate | 92. | Cresol |
| 25. | Ammonium citrate | 59. | Butylacetate | 93. | Crotonaldehyde |
| 26. | Ammonium fluoroborate | 60. | n-Butylphthalate | 94. | Cupric acetate |
| 27. | Ammonium fluoride | 61. | Butylamine | 95. | Cupric acetoarsenite |
| 28. | Ammonium hydroxide | 62. | Butyric acid | 96. | Cupric chloride |
| 29. | Ammonium oxalate | 63. | Cadmium acetate | 97. | Cupric nitrate |
| 30. | Ammonium silicofluoride | 64. | Cadmium bromide | 98. | Cupric oxalate |
| 31. | Ammonium sulfamate | 65. | Cadmium chloride | 99. | Cupric sulfate |
| 32. | Ammonium sulfide | 66. | Cadmium arsenate | 100. | Cupric sulfate ammoniated |
| 33. | Ammonium sulfite | 67. | Calcium arsenite | 101. | Cupric tartrate |
| 34. | Ammonium tartrate | 68. | Calcium carbide | 102. | Cyanogen chloride |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 103. | Cyclohexane | 134. | Ethylene dichloride | 165. | Lead iodide |
| 104. | 2,4-D acid (2,4-Dichlorophenoxyacetic acid) | 135. | Ethylene diaminetetracetic acid (EDTA) | 166. | Lead nitrate |
| 105. | 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) | 136. | Ferric ammonium citrate | 167. | Lead stearate |
| 106. | DDT | 137. | Ferric ammonium oxalate | 168. | Lead sulfate |
| 107. | Diazinon | 138. | Ferric chloride | 169. | Lead sulfide |
| 108. | Dicamba | 139. | Ferric fluoride | 170. | Lead thiocyanate |
| 109. | Dichlobenil | 140. | Ferric nitrate | 171. | Lindane |
| 110. | Dichlone | 141. | Ferric sulfate | 172. | Lithium chromate |
| 111. | Dichlorobenzene | 142. | Ferrous ammonium sulfate | 173. | Malathion |
| 112. | Dichloropropane | 143. | Ferrous chloride | 174. | Maleic acid |
| 113. | Dichloropropene | 144. | Ferrous sulfate | 175. | Maleic anhydride |
| 114. | Dichloropropene-dichloropropane mix | 145. | Formaldehyde | 176. | Mercaptodimethur |
| 115. | 2,2-Dichloropropionic acid | 146. | Formic acid | 177. | Mercuric cyanide |
| 116. | Dichlorvos | 147. | Fumaric acid | 178. | Mercuric nitrate |
| 117. | Dieldrin | 148. | Furfural | 179. | Mercuric sulfate |
| 118. | Diethylamine | 149. | Guthion | 180. | Mercuric thiocyanate |
| 119. | Dimethylamine | 150. | Heptachlor | 181. | Mercurous nitrate |
| 120. | Dinitrobenzene | 151. | Hexachlorocyclopentadiene | 182. | Methoxychlor |
| 121. | Dinitrophenol | 152. | Hydrochloric acid | 183. | Methyl mercaptan |
| 122. | Dinitrotoluene | 153. | Hydrofluoric acid | 184. | Methyl methacrylate |
| 123. | Diquat | 154. | Hydrogen cyanide | 185. | Methyl parathion |
| 124. | Disulfoton | 155. | Hydrogen sulfite | 186. | Mevinphos |
| 125. | Diuron | 156. | Isoprene | 187. | Mexacarbate |
| 126. | Dodecylbenzesulfonic acid | 157. | Isopropanolamine dodecylbenzenesulfonate | 188. | Monoethylamine |
| 127. | Endosulfan | 158. | Kelthane | 189. | Monomethylamine |
| 128. | Endrin | 159. | Kepone | 190. | Naled |
| 129. | Epichlorohydrin | 160. | Lead acetate | 191. | Naphthalene |
| 130. | Ethion | 161. | Lead arsenate | 192. | Naphthenic acid |
| 131. | Ethylbenzene | 162. | Lead chloride | 193. | Nickel ammonium sulfate |
| 132. | Ethylenediamine | 163. | Lead fluoborate | 194. | Nickel chloride |
| 133. | Ethylene dibromide | 164. | Lead fluorite | 195. | Nickel hydroxide |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 196. | Nickel nitrate | 221. | Propargite | 246. | Sodium phosphate (tribasic) |
| 197. | Nickel sulfate | 222. | Propionic acid | 247. | Sodium selenite |
| 198. | Nitric acid | 223. | Propionic anhydride | 248. | Strontium choromate |
| 199. | Nitrobenzene | 224. | Propylene oxide | 249. | Strychnine |
| 200. | Nitrogen dioxide | 225. | Pyrethrins | 250. | Styrene |
| 201. | Nitrophenol | 226. | Quinoline | 251. | Sulfuric acid |
| 202. | Nitrotoluene | 227. | Resorcinol | 252. | Sulfur monochloride |
| 203. | Paraformaldehyde | 228. | Selenium oxide | 253. | 2,4,5-T acid (2,4,5-Trichlorophenoxy acetic acid) |
| 204. | Parathion | 229. | Silver nitrate | 254. | 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines) |
| 205. | Pentachlorophenol | 230. | Sodium | 255. | 2,4,5-T esters (2,4,5-Trichlorophenoxy acetic acid esters) |
| 206. | Phenol | 231. | Sodium arsenate | 256. | 2,4,5-salts (2,4,5-Trichlorophenoxy acetic acid salts) |
| 207. | Phosgene | 232. | Sodium arsenite | 257. | 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid) |
| 208. | Phosphoric acid | 233. | Sodium bichromate | 258. | 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters) |
| 209. | Phosphorus | 234. | Sodium bifluoride | 259. | TDE (Tetrachlorodiphenyl ethane) |
| 210. | Phosphorus oxychloride | 235. | Sodium bisulfite | 260. | Tetraethyl lead |
| 211. | Phosphorus pentasulfide | 236. | Sodium chromate | 261. | Tetraethyl pyrophosphate |
| 212. | Phosphorus trichloride | 237. | Sodium cyanide | 262. | Thallium sulfate |
| 213. | Polychlorinated biphenyls (PCB) | 238. | Sodium dodecylbenzenesulfonate | 263. | Toluene |
| 214. | Potassium arsenate | 239. | Sodium fluoride | 264. | Toxaphene |
| 215. | Potassium arsenite | 240. | Sodium hydrosulfide | 265. | Trichlorofon |
| 216. | Potassium bichromate | 241. | Sodium hydroxide | 266. | Trichloroethylene |
| 217. | Potassium chromate | 242. | Sodium hypochlorite | 267. | Trichlorophenol |
| 218. | Potassium cyanide | 243. | Sodium methylate | 268. | Triethanolamine dodecylbenzenesulfonate |
| 219. | Potassium hydroxide | 244. | Sodium nitrate | 269. | Triethylamine |
| 220. | Potassium permanganate | 245. | Sodium phosphate (dibasic) | 270. | Trimethylamine |
| 271. | Uranyl acetate | 280. | Zinc ammonium chloride | 289. | Zinc nitrate |
| 272. | Uranyl nitrate | 281. | Zinc borate | 290. | Zinc phenolsulfonate |
| 273. | Vanadium pentoxide | 282. | Zinc bromide | 291. | Zinc phosphate |
| 274. | Vanadyl sulfate | 283. | Zinc carbonate | 292. | Zinc silicofluoride |
| 275. | Vinyl acetate | 284. | Zinc chloride | 293. | Zinc sulfate |
| 276. | Vinylidene chloride | 285. | Zinc cyanide | 294. | Zirconium nitrate |
| 277. | Xylene | 286. | Zinc fluoride | 295. | Zirconium potassium fluoride |
| 278. | Xylenol | 287. | Zinc formate | 296. | Zirconium sulfate |
| 279. | Zinc acetate | 288. | Zinc hydrosulfonate | 297. | Zirconium tetrachloride |

Wilson Outfall

001 Main Plant

002 North Scrubber Sludge Pond

003 Site drainage

005 Metal Cleaning Pond (internal outfall)

006 Cooling Tower Blowdown

007 Sanitary (internal outfall)

008 Plant intake

009 South Scrubber Sludge Pond

WESTERN KENTUCKY ENERGY

A SUBSIDIARY OF LG&E ENERGY

P. O. Box 1518
Henderson, KY 42419
Phone (270) 844-6000
Fax (270) 844-6023

# FAX

**DATE:** Aug 11 2004

**TO:** Jennifer Chapman

**FROM:** Tom Shaw

**FAX #:**

**SENDERS PHONE #: (270) 844-**6031

**COMPANY:**

**PAGES INCLUDING COVER SHEET:** 4

**CC:**

☐ **URGENT** ☐ **FOR REVIEW** ☐ **PLEASE COMMENT** ☐ **PLEASE REPLY**

---

**COMMENTS:**

Analysis for items with a * next to them a total of 30 in each set(sample location).
I need enough coolers and sample bottles for 8 sampling locations.
All samples will be water samples.
Please fax the total cost to my attention so I can get a P.O. to you prior to billing

Thanks
Tom

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM
# FORM C – INSTRUCTIONS

Listed below are explanations of select Form C questions. If further information is needed concerning any questions, please contact the Division of Water, at (502) 564-3410.

## I. OUTFALL LOCATION

Use the map you provided for Item III of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. Group similar operations into a single unit and label to correspond to the more detailed listing in Item II.B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. Use actual measurements whenever available. Otherwise, use your best estimate.

B. List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower"). Estimate the flow contributed by each source if no data are available. For storm water, use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time; and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order. Select the proper code from Table C-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you have listed.

If the permit application is for a privately-owned treatment works, you must also identify all of your contributors in an attached listing.

C. A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharge. Base your answers on actual data whenever available, otherwise, provide your best estimate. Report the highest daily for flow rate and total volume in the "Maximum Daily" columns (columns 4-a-2 and 4-b-2). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (columns 4-a-1 and 4-b-1).

## III. MAXIMUM PRODUCTION

A. If you are unsure whether you are covered by a promulgated effluent guideline, check with the Department for Environmental Protection, Division of Water. You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operation, you may check "no."

B. An effluent guideline is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter, for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one that limits the concentration of pollutants.

C. This item must be completed only if you check "yes" to Item III.B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated.

Report quantities in the units of measurements used in the applicable effluent guidelines. The figures provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation. But these figures may not be based on design capacity or on predictions of future increases in operation.

If you have two or more substantially identical outfalls, request permission from the Division of Water to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is

granted, identify on a separate sheet attached to the application form the outfall tested, and describe why the outfalls not tested are substantially identical to the tested outfall.

## IV. IMPROVEMENTS

A. If you check "yes" to this question, complete all parts of the chart or attach a copy of any previous submission you have made to the Department for Environmental Protection containing the same information.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

This item requires you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

### GENERAL INSTRUCTIONS

In the "Mark X" columns of Parts B and C mark only one box per pollutant. Part D requires you to list any of a group of pollutants which you believe to be present, with a brief explanation of why you believe it to be present. See specific instruction on the form and below for Parts A through D.

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believed Present" but "X" in that "Intake" column.

### REPORTING

All levels must be reported as concentration and as total mass. Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

| CONCENTRATIONS | | MASS | |
|---|---|---|---|
| ppm | parts per million | lbs. | Pounds |
| mg/l | milligrams per liter | ton | Tons (english tons) |
| ppb | parts per billion | mg | Milligrams |
| µg/l | micrograms per liter | g | Grams |
| | | kg | Kilograms |
| | | T | Tonnes (metric tons) |
| | | MGD | Million Gallons Per Day |

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "Number of Analyses" columns (columns 2-a and 2-d, Part A, and columns 3-a and 3-d, Parts B and C).

For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period. For grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long-Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C). Also report the total number of daily values under the "Number of Analyses" columns (column 2-d, Part A, and column 3-d, Parts B and C). Determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-Day Values" columns (2-b, Part A, and column 3-b, Parts B and C).

**SAMPLING**

The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact the Department for Environmental Protection or appropriate regional office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets.

**ANALYSIS**

Use test methods promulgated in 40 CFR Part 136; however, if none have been promulgated for a particular pollutant, use any suitable methods for measuring the level of the pollutant in your discharge provided that you submit a description of the methods or a reference to a published method. Your description should include the sample holding times, preservation techniques, and the quality control measures used.

**REPORTING OF INTAKE DATA**

You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, effluent limitations adjusted by subtracting the average level of the pollutant(s) present in your intake water. 401 KAR 5:065, Section 3(7), allows net limitations only in certain circumstances. To demonstrate your eligibility, report the average of the results of analysis on your intake water in the "Intake" columns (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

1. A statement that the intake and discharge are from the same water body (Otherwise, you are not eligible for net limitations);
2. A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater (Your limitations will be adjusted only to the extent that the pollutant is not removed);
3. When applicable (for example, when the pollutant represents a class of compounds), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in your discharge. (Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.)

**SPECIFIC INSTRUCTIONS**

A. This part must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Division of Water may waive the requirements to test for one or more of these pollutants upon a determination that testing for the pollutant(s) is not appropriate for your effluents.

   Use grab samples for pH and temperature. Use composite samples for all pollutants in this part. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long-Term Average Values" column (column 2-c) and "Maximum 30-Day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

B. This part must be completed by all applicants for all outfalls including those containing only noncontact cooling water or storm runoff.

   Use composite samples for all pollutants you analyze in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long-Term Average Values" column (column 3-b) are not compulsory but should be filled out if data are available.

C. Table C-2 lists the 34 "primary" industry categories in the left-hand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (column 2-a) and test for: (A) all of the toxic metals, cyanide, and total phenols; and (B) the organic toxic pollutants contained in the gas chromatography/mass spectrometry (GC/MS) fractions indicated in Table C-2 as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS fractions on pages V-4 through V-10 in Part V-C. For example, the Organic Chemical industry has an "X" in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. If you are applying for a permit for a

privately owned treatment works, determine your testing contributors. The industry category you use for testing requirements is not used to categorize you for any other purpose.

For all other cases (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-b) or the "Believed Absent" column (column 2-c) for each pollutant, and test for those you believe present (those marked "X" in column 2-b). If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants listed on page V-4 through V-10 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long-Term Average Values" column (column 3-c) and "Maximum 30-Day Values" column (column 3-b) are not compulsory but should be filled out if data are available.

Use grab samples for total phenols and cyanide. Use composite samples for all other pollutants in this part.

Mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T);
B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP);
C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon);
D. 0, 0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel);
E. 2,4,5-trichlorophenol (TCP); or
F. Hexachlorophene (HCP)

If you mark "Testing Required" or "Believed Present" you must perform a screening analysis for dioxins, using gas chromotography with an electron capture detector. A TCDD standard for quantification is not required. Describe the results of this analysis in the space provided, for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." You may be required to perform a quantitative analysis if you report a positive result.

The Engineering and Analysis Division of EPA has collected and analyzed samples from some facilities for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents were sampled and analyzed as part of this program in the last three years, you may use this data to answer Part C. This may be done provided that no process change or change in raw materials, process or operating practices has occurred since the samples were taken which would make the analyses unrepresentative of your current discharge.

**Small Business Exemption**

If you qualify as a "small business," under 401 KAR 5:060, Section 2(8) you are exempt from the reporting requirements for the organic toxic pollutants listed on pages 9 through 18 in Part C. If your facility is a coal mine with a probable total annual production of less than 100,000 tons, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR Section 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than $100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants.

The production or sales data must be for the facility that is the source of the discharge. The data should not be limited to production or sales for the process or processes that contribute to the discharge, unless those are the only processes of your facility. For sales data, in situations involving intra-corporate transfers of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product prices deflator (second quarter of 1980 = 100). This index is available in "National Income and Product Accounts of the United States" (U.S. Department of Commerce, Bureau of Economic Analysis).

D. List any pollutants in Table C-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it also.

**NOTE:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table C-3 of these instructions) may be exempted from the requirements of Section 311 of the Clean Water Act (33 USC Section 1321), which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substance are identified in the KPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirement of Section 311, attach additional sheets of paper to your form, setting forth the following information:

A. the substance and the amount of each substance which may be discharged;
B. the origin and source of the discharge of the substance;
C. the treatment which is provided or to be provided for the discharge by:

1. an on-site treatment system separate from any treatment system treating your normal discharge;
2. a treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
3. any combination of the above.

See 40 CFR Section 117.12(a)(2) and (c), published on August 29, 1979, or contact the Division of Water for further information on exclusions from Section 311.

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. You may not claim this information as confidential. However, you do not have to distinguish between use of production of the pollutants or list the amounts. Under KPDES regulations, your permit will contain limits to control all pollutants you report in answer to this question, as well as pollutants reported in Item V and VI.B at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you begin or expect to begin to use or manufacture any toxic pollutant as an immediate or final product or byproduct which you did not report here. Your permit may be modified at that time if necessary to control that pollutant.

B. Consider only those variations which may result in the concentrations of pollutants in effluents which exceed twice the maximum values you reported in Item V. These variations may be part of your routing operations, or part of your regular cleaning cycles.

Under KPDES regulations, your permit will contain limits to control any pollutant that you report in this item at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you know or have reason to believe that any toxic pollutant two times the maximum values reported in Item V-C or in this item. Your permit may be modified at that time if necessary to control the pollutant.

Do not consider variations that are the result of bypasses or upsets. Increased levels of pollutants that are discharged as a result of bypasses or upsets are regulated separately under KPDES regulations.

C. Variation exemptions to be described here include:

Changes in raw or intermediate materials
Changes in process equipment or materials;
Changes in product lines;
Significant chemical reactions among pollutants in waste streams; and
Significant variation in removal efficiencies of pollution control equipment.

You may indicate other types of variations as well, except those that are the result of bypasses or upsets. You may be required to further investigate or document variations you report here.

Base your prediction on expected levels of these pollutants upon your knowledge of your processes, raw materials, past and projected product ranges, etc., or upon any testing of your effluent which indicates the range of variability that can be expected over the next five years.

**EXAMPLE:** Outfall 001 discharges water used to clean six 500-gallon tanks. These tanks are used for formulation of dispersions of synthetic resins in water (adhesives). Use of toxic pollutants which can be expected in the next 5 years is:

1. copper acetate inhibitor, 1/2 lb. per tank;
2. dibutyl phthalate, 50 lbs. per tank;
3. toluene, 5 lbs. per tank; and
4. antimony oxide, 1 lb. per tank.

Based on normal cleaning, an average of 1% and a maximum of 3% of the contents of each tank is collected and discharged once every two weeks in the 150 gallons of water used for cleaning. Treatment (pH adjustment, flocculation, filtration) removes 85% of metals and 50% of organic compounds.

## IX. CERTIFICATION

The certification is to be signed as follows:

Corporation: by a principal officer of at least the level of vice president.

Partnership or sole proprietorship: by a general partner or the proprietor, respectively.

Municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

# TABLE C-1
# CODES FOR TREATMENT UNITS
# (For use with Form C, Item II, Part B)

### PHYSICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 1-A | Ammonia Stripping | 1-M | Grit Removal |
| 1-B | Dialysis | 1-N | Microstraining |
| 1-C | Diatomaceous Earth Filtration | 1-O | Mixing |
| 1-D | Distillation | 1-P | Moving Bed Filters |
| 1-E | Electrodialysis | 1-Q | Multimedia Filtration |
| 1-F | Evaporation | 1-R | Rapid Sand Filtration |
| 1-G | Flocculation | 1-S | Reverse Osmosis (Hyperfiltration) |
| 1-H | Flotation | 1-T | Screening |
| 1-L | Foam Fractionation | 1-U | Sedimentation (Settling) |
| 1-J | Freezing | 1-V | Slow Sand Filtration |
| 1-K | Gas-Phase Separation | 1-W | Solvent Extraction |
| 1-L | Grinding (Comminutors) | 1-X | Sorption |

### CHEMICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 2-A | Carbon Adsorption | 2-G | Disinfection (Ozone) |
| 2-B | Chemical Oxidation | 2-H | Disinfection (Other) |
| 2-C | Chemical Precipitation | 2-L | Electrochemical Treatment |
| 2-D | Coagulation | 2-J | Ion Exchange |
| 2-E | Dechlorination | 2-K | Neutralization |
| 2-F | Disinfection (Chlorine) | 2-L | Reduction |

### BIOLOGICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 3-A | Activated Sludge | 3-E | Pre-Aeration |
| 3-B | Aerated Lagoons | 3-F | Spray Irrigation/Land Application |
| 3-C | Anaerobic Treatment | 3-G | Stabilization Ponds |
| 3-D | Nitrification-Denitrification | 3-H | Trickling Filtration |

### OTHER PROCESSES

| | | | |
|---|---|---|---|
| 4-A | Discharge to Surface Water | 4-C | Reuse/Recycle of Treated Effluent |
| 4-B | Ocean Discharge Through Outfall | 4-D | Underground Injection |

### SLUDGE TREATMENT AND DISPOSAL PROCESSES

| | | | |
|---|---|---|---|
| 5-A | Aerobic Digestion | 5-M | Heat Drying |
| 5-B | Anaerobic Digestion | 5-N | Heat Treatment |
| 5-C | Belt Filtration | 5-O | Incineration |
| 5-D | Centrifugation | 5-P | Land Application |
| 5-E | Chemical Conditioning | 5-Q | Landfill |
| 5-F | Chlorine Treatment | 5-R | Pressure Filtration |
| 5-G | Composting | 5-S | Pyrolysis |
| 5-H | Drying Beds | 5-T | Sludge Lagoons |
| 5-I | Elutriation | 5-U | Vacuum Filtration |
| 5-J | Flotation Thickening | 5-V | Vibration |
| 5-K | Freezing | 5-W | Wet Oxidation |
| 5-L | Gravity Thickening | | |

## TABLE C-2
## TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY
**(For use with Form C, Item V, Part C)**

| FRACTION* / INDUSTRY CATEGORY | GC/MS Volatile | Acid | Base/Neutral | Pesticide |
|---|---|---|---|---|
| Adhesives and sealants | x | x | x | - |
| Aluminum forming | x | x | x | - |
| Auto and other laundries | x | x | x | x |
| Battery manufacturing | x | - | x | - |
| Coal mining | x | x | x | x |
| Coil coating | x | x | x | - |
| Copper forming | x | x | x | - |
| Electric and electronic compounds | x | x | x | x |
| Electroplating | x | x | x | - |
| Explosives manufacturing | - | x | x | - |
| Foundries | x | x | x | |
| Gum and wood chemicals | x | x | x | x |
| Inorganic chemicals manufacturing | x | x | x | - |
| Iron and steel manufacturing | x | x | x | - |
| Leather tanning and finishing | x | x | x | x |
| Mechanical products manufacturing | x | x | x | - |
| Nonferrous metals manufacturing | x | x | x | x |
| Ore mining | x | x | x | x |
| Organic chemicals manufacturing | x | x | x | x |
| Paint and ink formulation | x | x | x | - |
| Pesticides | x | x | x | x |
| Petroleum refining | x | x | x | x |
| Pharmaceutical preparation | x | x | x | - |
| Photographic equipment and supplies | x | x | x | x |
| Plastic and synthetic materials manufacturing | x | x | x | x |
| Plastic processing | x | - | - | - |
| Porcelain enameling | x | - | x | x |
| Printing and publishing | x | x | x | x |
| Pulp and paperboard mills | x | x | x | x |
| Rubber Processing | x | x | x | - |
| Soap and detergent manufacturing | x | x | x | - |
| Steam electric power plants | x | x | x | - |
| Textile mills | x | x | x | x |
| Timber products processing | x | x | x | x |

* **The pollutants in each fraction are listed in item V-C.**

x = **Testing required.**

\- = **Testing not required.**

# TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT

**(For use with Form C, Item V, Part D)**

## TOXIC POLLUTANT

Asbestos

## HAZARDOUS SUBSTANCES

| | | | | | |
|---|---|---|---|---|---|
| 1. | Acetaldehyde | 35. | Ammonium thiocyanate | 69. | Calcium chromate |
| 2. | Acetic Acid | 36. | Ammonium thiosulfate | 70. | Calcium cyanide |
| 3. | Acetic anhydride | 37. | Amyl acetate | 71. | Calcium dodecylbenzenesulfonate |
| 4. | Acetone cyanohydrin | 38. | Aniline | 72. | Calcium hypochlorite |
| 5. | Acetyl bromide | 39. | Antimony pentachloride | 73. | Captan |
| 6. | Acetyl chloride | 40. | Antimony potassium tartrate | 74. | Carbaryl |
| 7. | Acrolein | 41. | Antimony tribromide | 75. | Carbofuran |
| 8. | Acrylonitrile | 42. | Antimony trichloride | 76. | Carbon disulfide |
| 9. | Adipic acid | 43. | Antimony trifluoride | 77. | Carbon tetrachloride |
| 10. | Aldrin | 44. | Antimony trioxide | 78. | Chlordane |
| 11. | Allyl alcohol | 45. | Arsenic disulfide | 79. | Chlorine |
| 12. | Allyl chloride | 46. | Arsenic pentoxide | 80. | Chlorobenzene |
| 13. | Aluminum sulfate | 47. | Arsenic trichloride | 81. | Chloroform |
| 14. | Ammonia | 48. | Arsenic trioxide | 82. | Chloropyrifos |
| 15. | Ammonium acetate | 49. | Arsenic trisulfide | 83. | Chlorosulfonic acid |
| 16. | Ammonium benzoate | 50. | Barium cyanide | 84. | Chromic acetate |
| 17. | Ammonium bicarbonate | 51. | Benzene | 85. | Chromic acid |
| 18. | Ammonium bichromate | 52. | Benzoic acid | 86. | Chromic sulfate |
| 19. | Ammonium bifluoride | 53. | Benzonitrile | 87. | Chromous chloride |
| 20. | Ammonium bisulfite | 54. | Benzoyl chloride | 88. | Cobaltous bromide |
| 21. | Ammonium carbamate | 55. | Benzyl chloride | 89. | Cobaltous formate |
| 22. | Ammonium carbonate | 56. | Beryllium chloride | 90. | Cobaltous sulfamate |
| 23. | Ammonium chloride | 57. | Beryllium fluoride | 91. | Coumaphos |
| 24. | Ammonium chromate | 58. | Beryllium nitrate | 92. | Cresol |
| 25. | Ammonium citrate | 59. | Butylacetate | 93. | Crotonaldehyde |
| 26. | Ammonium fluoroborate | 60. | n-Butylphthalate | 94. | Cupric acetate |
| 27. | Ammonium fluoride | 61. | Butylamine | 95. | Cupric acetoarsenite |
| 28. | Ammonium hydroxide | 62. | Butyric acid | 96. | Cupric chloride |
| 29. | Ammonium oxalate | 63. | Cadmium acetate | 97. | Cupric nitrate |
| 30. | Ammonium silicofluoride | 64. | Cadmium bromide | 98. | Cupric oxalate |
| 31. | Ammonium sulfamate | 65. | Cadmium chloride | 99. | Cupric sulfate |
| 32. | Ammonium sulfide | 66. | Cadmium arsenate | 100. | Cupric sulfate ammoniated |
| 33. | Ammonium sulfite | 67. | Calcium arsenite | 101. | Cupric tartrate |
| 34. | Ammonium tartrate | 68. | Calcium carbide | 102. | Cyanogen chloride |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 103. | Cyclohexane | 134. | Ethylene dichloride | 165. | Lead iodide |
| 104. | 2,4-D acid (2,4-Dichlorophenoxyacetic acid) | 135. | Ethylene diaminetetracetic acid (EDTA) | 166. | Lead nitrate |
| 105. | 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) | 136. | Ferric ammonium citrate | 167. | Lead stearate |
| 106. | DDT | 137. | Ferric ammonium oxalate | 168. | Lead sulfate |
| 107. | Diazinon | 138. | Ferric chloride | 169. | Lead sulfide |
| 108. | Dicamba | 139. | Ferric fluoride | 170. | Lead thiocyanate |
| 109. | Dichlobenil | 140. | Ferric nitrate | 171. | Lindane |
| 110. | Dichlone | 141. | Ferric sulfate | 172. | Lithium chromate |
| 111. | Dichlorobenzene | 142. | Ferrous ammonium sulfate | 173. | Malathion |
| 112. | Dichloropropane | 143. | Ferrous chloride | 174. | Maleic acid |
| 113. | Dichloropropene | 144. | Ferrous sulfate | 175. | Maleic anhydride |
| 114. | Dichloropropene-dichloropropane mix | 145. | Formaldehyde | 176. | Mercaptodimethur |
| 115. | 2,2-Dichloropropionic acid | 146. | Formic acid | 177. | Mercuric cyanide |
| 116. | Dichlorvos | 147. | Fumaric acid | 178. | Mercuric nitrate |
| 117. | Dieldrin | 148. | Furfural | 179. | Mercuric sulfate |
| 118. | Diethylamine | 149. | Guthion | 180. | Mercuric thiocyanate |
| 119. | Dimethylamine | 150. | Heptachlor | 181. | Mercurous nitrate |
| 120. | Dinitrobenzene | 151. | Hexachlorocyclopentadiene | 182. | Methoxychlor |
| 121. | Dinitrophenol | 152. | Hydrochloric acid | 183. | Methyl mercaptan |
| 122. | Dinitrotoluene | 153. | Hydrofluoric acid | 184. | Methyl methacrylate |
| 123. | Diquat | 154. | Hydrogen cyanide | 185. | Methyl parathion |
| 124. | Disulfoton | 155. | Hydrogen sulfite | 186. | Mevinphos |
| 125. | Diuron | 156. | Isoprene | 187. | Mexacarbate |
| 126. | Dodecylbenzesulfonic acid | 157. | Isopropanolamine dodecylbenzenesulfonate | 188. | Monoethylamine |
| 127. | Endosulfan | 158. | Kelthane | 189. | Monomethylamine |
| 128. | Endrin | 159. | Kepone | 190. | Naled |
| 129. | Epichlorohydrin | 160. | Lead acetate | 191. | Naphthalene |
| 130. | Ethion | 161. | Lead arsenate | 192. | Naphthenic acid |
| 131. | Ethylbenzene | 162. | Lead chloride | 193. | Nickel ammonium sulfate |
| 132. | Ethylenediamine | 163. | Lead fluoborate | 194. | Nickel chloride |
| 133. | Ethylene dibromide | 164. | Lead fluorite | 195. | Nickel hydroxide |

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107978
Sample ID: 001 MP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:55
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 4 Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 001 MP
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Chloroform | 0.0052 | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |

p2.08

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | 0.0220 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | 0.0110 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 104. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 102. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 50. | 12. - 135. |
| surr-2-Fluorobiphenyl | 56. | 14. - 132. |
| surr-Terphenyl d14 | 89. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 10. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 30. | 7. - 155. |

Sample report continued . . .

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107981
Sample ID: 005 MCP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:50
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| bis(2 Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 005 MCP
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | 0.0013 | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | 0.0360 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0080 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | 0.0020 | mg/l | 0.0020 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | 0.0440 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | 0.164 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | 0.122 | mg/l | 0.100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 96. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 99. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 106. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 100. | 81. - 126. |
| surr-Nitrobenzene-d5 | 49. | 12. - 135. |
| surr-2-Fluorobiphenyl | 59. | 14. - 132. |
| surr-Terphenyl d14 | 66. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 15. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 60. | 7. - 155. |

Sample report continued . . .

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107980
Sample ID: 003 SD
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:35
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| | Report | Dil | Analysis | Analysis |
|---|---|---|---|---|

| Analyte | Result | Units | Limit | Factor | Date | Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 4 Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Di n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2-Methyl 4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| Bis(2 ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 003 SD
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107983
Sample ID: 007 SIO
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:45
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 4 Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Di-n octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 007 SIO
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Metl |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,2 Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,4-Dichlorobenzene NOT REPORTED | [illegible] | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Toluene | 0.0014 | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | 0.0170 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | 0.0500 | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

End of Sample Report.

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107984
Sample ID: 008 PI
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:10
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 4-Chloro 3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 4 Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 |
| | | | | | | | | |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 008 PI
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Chloroform | 0.0010 | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/16/04 | 14:33 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 107. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 109. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 106. | 81. - 126. |
| surr-Nitrobenzene-d5 | 50. | 12. - 135. |
| surr-2-Fluorobiphenyl | 54. | 14. - 132. |
| surr-Terphenyl d14 | 82. | 11. - 142. |
| surr-Phenol d5 | 31. | 5. - 79. |
| surr-2-Fluorophenol | 39. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 63. | 7. - 155. |

# ANALYTICAL REPORT

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107985
Sample ID: 009 SSSP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:15
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Met |
|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,4 dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 |
| *VOLATILE ORGANICS* | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107
Sample ID: 009 SSSP
Project: PRIORITY POLLUTA
Page 2

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Meth |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| trans 1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 |
| *METALS* | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 105. | 81. - 126. |
| surr-Nitrobenzene-d5 | 47. | 12. - 135. |
| surr-2-Fluorobiphenyl | 54. | 14. - 132. |
| surr-Terphenyl d14 | 82. | 11. - 142. |
| surr-Phenol d5 | 17. | 5. - 79. |
| surr-2-Fluorophenol | 15. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 36. | 7. - 155. |

Sample report continued . . .

# ANALYTICAL REPORT

Laboratory Number: 04-A107

**LaJuana Wilcher**
Secretary

**Ernie Fletcher**
Governor

COMMONWEALTH OF KENTUCKY
**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**
**DEPARTMENT FOR ENVIRONMENTAL PROTECTION**
Frankfort Office Park
14 Reilly Road
Frankfort, Kentucky 40601

December 29, 2003

Mr. Gregory Black
Big Rivers Electrie Corporation
201 3rd Street
P.O. Box 24
Henderson, Kentucky 42420

Re: Complete KPDES Application
KPDES No.: KY0054836
Western Kentueky Energy Corporation – Wilson Station
AI ID: 3319
Aetivity ID: APE20030001
Ohio County, Kentueky

Dear Mr. Black:

Your Kentueky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on July 10, 2003, and has been determined complete. As per 401 KAR 5:075, Section 1(7), the official effective date of your application has been determined as December 29, 2003, the date of this notice.

A technical review of your permit application will commence in the near future. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. A request for this additional information will not render your application incomplete.

If you have any questions concerning this matter, please feel free to contact me at (502) 564-2225, extension 402.

Sincerely,

Nancy Green

**Nancy Green**
Program Coordinator
Inventory and Data Management Section
KPDES Branch
Division of Water

NG:ng

c: Bowling Green Regional Offiee
Division of Water Files

:OMMONWEALTH OF KENTUCKY
**ATURAL RESOURCES AND**
**IMENTAL PROTECTION CABINET**
*IT FOR ENVIRONMENTAL PROTECTION*
FRANKFORT OFFICE PARK
14 REILLY RD
FRANKFORT KY 40601

MR GREGORY BLACK
BIG RIVERS ELECTRIC CORPORATION
201 3RD STREET
P O BOX 24
HENDERSON KY 42420

J4HJRMP 42419

**Big Rivers**
Electric Corporation
A Touchstone Energy® Cooperative

HENDERSON

GREG BLACK
WESTERN KENTUCKY ENERGY
PO BOX 1518
HENDERSON KY 42419-1518

42419+1518 18

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM
# FORM C -- INSTRUCTIONS

Listed below are explanations of select Form C questions. If further information is needed concerning any questions, please contact the Division of Water, at (502) 564-3410.

## I. OUTFALL LOCATION

Use the map you provided for Item III of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. Group similar operations into a single unit and label to correspond to the more detailed listing in Item II.B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. Use actual measurements whenever available. Otherwise, use your best estimate.

B. List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower"). Estimate the flow contributed by each source if no data are available. For storm water, use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time; and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order. Select the proper code from Table C-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you have listed.

If the permit application is for a privately-owned treatment works, you must also identify all of your contributors in an attached listing.

C. A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharge. Base your answers on actual data whenever available, otherwise, provide your best estimate. Report the highest daily for flow rate and total volume in the "Maximum Daily" columns (columns 4-a-2 and 4-b-2). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (columns 4-a-1 and 4-b-1).

## III. MAXIMUM PRODUCTION

A. If you are unsure whether you are covered by a promulgated effluent guideline, check with the Department for Environmental Protection, Division of Water. You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operation, you may check "no."

B. An effluent guideline is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter, for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrieal energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one that limits the concentration of pollutants.

C. This item must be completed only if you check "yes" to Item III.B. The produetion information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated.

Report quantities in the units of measurements used in the applicable effluent guidelines. The figures provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation. But these figures may not be based on design capacity or on predictions of future increases in operation.

If you have two or more substantially identical outfalls, request permission from the Division of Water to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is

granted, identify on a separate sheet attached to the application form the outfall tested, and describe why the outfalls not tested are substantially identical to the tested outfall.

## IV. IMPROVEMENTS

A. If you check "yes" to this question, complete all parts of the chart or attach a copy of any previous submission you have made to the Department for Environmental Protection containing the same information.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

This item requires you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

### GENERAL INSTRUCTIONS

In the "Mark X" columns of Parts B and C mark only one box per pollutant. Part D requires you to list any of a group of pollutants which you believe to be present, with a brief explanation of why you believe it to be present. See specific instruction on the form and below for Parts A through D.

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believed Present" but "X" in that "Intake" column.

### REPORTING

All levels must be reported as concentration and as total mass. Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

| CONCENTRATIONS | | MASS | |
|---|---|---|---|
| ppm | parts per million | lbs. | Pounds |
| mg/l | milligrams per liter | ton | Tons (english tons) |
| ppb | parts per billion | mg | Milligrams |
| µg/l | micrograms per liter | g | Grams |
| | | kg | Kilograms |
| | | T | Tonnes (metric tons) |
| | | MGD | Million Gallons Per Day |

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "Number of Analyses" columns (columns 2-a and 2-d, Part A, and columns 3-a and 3-d, Parts B and C).

For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period. For grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long-Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C). Also report the total number of daily values under the "Number of Analyses" columns (column 2-d, Part A, and column 3-d, Parts B and C). Determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-Day Values" columns (2-b, Part A, and column 3-b, Parts B and C).

## SAMPLING

The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact the Department for Environmental Protection or appropriate regional office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets.

## ANALYSIS

Use test methods promulgated in 40 CFR Part 136; however, if none have been promulgated for a particular pollutant, use any suitable methods for measuring the level of the pollutant in your discharge provided that you submit a description of the methods or a reference to a published method. Your description should include the sample holding times, preservation techniques, and the quality control measures used.

## REPORTING OF INTAKE DATA

You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, effluent limitations adjusted by subtracting the average level of the pollutant(s) present in your intake water. 401 KAR 5:065, Section 3(7), allows net limitations only in certain circumstances. To demonstrate your eligibility, report the average of the results of analysis on your intake water in the "Intake" columns (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

1. A statement that the intake and discharge are from the same water body (Otherwise, you are not eligible for net limitations);
2. A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater (Your limitations will be adjusted only to the extent that the pollutant is not removed);
3. When applicable (for example, when the pollutant represents a class of compounds), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in your discharge. (Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.)

## SPECIFIC INSTRUCTIONS

A. This part must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Division of Water may waive the requirements to test for one or more of these pollutants upon a determination that testing for the pollutant(s) is not appropriate for your effluents.

Use grab samples for pH and temperature. Use composite samples for all pollutants in this part. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long-Term Average Values" column (column 2-c) and "Maximum 30-Day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

B. This part must be completed by all applicants for all outfalls including those containing only noncontact cooling water or storm runoff.

Use composite samples for all pollutants you analyze in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long-Term Average Values" column (column 3-b) are not compulsory but should be filled out if data are available.

C. Table C-2 lists the 34 "primary" industry categories in the left-hand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (column 2-a) and test for: (A) all of the toxic metals, cyanide, and total phenols; and (B) the organic toxic pollutants contained in the gas chromatography/mass spectrometry (GC/MS) fractions indicated in Table C-2 as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS fractions on pages V-4 through V-10 in Part V-C. For example, the Organic Chemical industry has an "X" in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. If you are applying for a permit for a

privately owned treatment works, determine your testing contributors. The industry category you use for testing requirements is not used to categorize you for any other purpose.

For all other cases (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-b) or the "Believed Absent" column (column 2-c) for each pollutant, and test for those you believe present (those marked "X" in column 2-b). If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants listed on page V-4 through V-10 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long-Term Average Values" column (column 3-e) and "Maximum 30-Day Values" column (column 3-b) are not compulsory but should be filled out if data are available.

Use grab samples for total phenols and cyanide. Use composite samples for all other pollutants in this part.

Mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T);
B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP);
C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon);
D. 0, 0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel);
E. 2,4,5-trichlorophenol (TCP); or
F. Hexachlorophene (HCP)

If you mark "Testing Required" or "Believed Present" you must perform a screening analysis for dioxins, using gas chromotography with an electron capture detector. A TCDD standard for quantification is not required. Describe the results of this analysis in the space provided, for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." You may be required to perform a quantitative analysis if you report a positive result.

The Engineering and Analysis Division of EPA has collected and analyzed samples from some facilities for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents were sampled and analyzed as part of this program in the last three years, you may use this data to answer Part C. This may be done provided that no process change or change in raw materials, process or operating practices has occurred since the samples were taken which would make the analyses unrepresentative of your current discharge.

**Small Business Exemption**

If you qualify as a "small business," under 401 KAR 5:060, Section 2(8) you are exempt from the reporting requirements for the organic toxic pollutants listed on pages 9 through 18 in Part C. If your facility is a coal mine with a probable total annual production of less than 100,000 tons, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR Section 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than $100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants.

The production or sales data must be for the facility that is the source of the discharge. The data should not be limited to production or sales for the process or processes that contribute to the discharge, unless those are the only processes of your facility. For sales data, in situations involving intra-corporate transfers of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product prices deflator (second quarter of 1980 = 100). This index is available in "National Income and Product Accounts of the United States" (U.S. Department of Commerce, Bureau of Economic Analysis).

D. List any pollutants in Table C-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it also.

**NOTE:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table C-3 of these instructions) may be exempted from the requirements of Section 311 of the Clean Water Act (33 USC Section 1321), which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substance are identified in the KPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirement of Section 311, attach additional sheets of paper to your form, setting forth the following information:

A. the substance and the amount of each substance which may be discharged;
B. the origin and source of the discharge of the substance;
C. the treatment which is provided or to be provided for the diseharge by:

1. an on-site treatment system separate from any treatment system treating your normal discharge;
2. a treatment system designed to treat your normal discharge and which is additionally eapable of treating the amount of the substance identified under paragraph 1 above; or
3. any combination of the above.

See 40 CFR Section 117.12(a)(2) and (c), published on August 29, 1979, or contact the Division of Water for further information on exelusions from Seetion 311.

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. You may not claim this information as eonfidential. However, you do not have to distinguish between use of produetion of the pollutants or list the amounts. Under KPDES regulations, your permit will eontain limits to eontrol all pollutants you report in answer to this question, as well as pollutants reported in Item V and VI.B at levels exeeeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you begin or expect to begin to use or manufaeture any toxic pollutant as an immediate or final product or byproduct which you did not report here. Your permit may be modified at that time if neeessary to control that pollutant.

B. Consider only those variations which may result in the coneentrations of pollutants in effluents whieh exeeed twiee the maximum values you reported in Item V. These variations may be part of your routing operations, or part of your regular cleaning cyeles.

Under KPDES regulations, your permit will eontain limits to control any pollutant that you report in this item at levels exeeeding the teehnology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Proteetion if you know or have reason to believe that any toxic pollutant two times the maximum values reported in Item V-C or in this item. Your permit may be modified at that time if necessary to eontrol the pollutant.

Do not eonsider variations that are the result of bypasses or upsets. Increased levels of pollutants that are discharged as a result of bypasses or upsets are regulated separately under KPDES regulations.

C. Variation exemptions to be deseribed here include:

Changes in raw or intermediate materials
Changes in proeess equipment or materials;
Changes in produet lines;
Significant ehemical reactions among pollutants in waste streams; and
Significant variation in removal efficiencies of pollution control equipment.

You may indicate other types of variations as well, exeept those that are the result of bypasses or upsets. You may be required to further investigate or document variations you report here.

Base your prediction on expected levels of these pollutants upon your knowledge of your processes, raw materials, past and projeeted product ranges, ete., or upon any testing of your effluent whieh indicates the range of variability that ean be expeeted over the next five years.

**EXAMPLE:** Outfall 001 discharges water used to elean six 500-gallon tanks. These tanks are used for formulation of dispersions of synthetic resins in water (adhesives). Use of toxic pollutants whieh ean be expected in the next 5 years is:

1. copper aeetate inhibitor, 1/2 lb. per tank;
2. dibutyl phthalate, 50 lbs. per tank;
3. toluene, 5 lbs. per tank; and
4. antimony oxide, 1 lb. per tank.

Based on normal eleaning, an average of 1% and a maximum of 3% of the contents of each tank is collected and discharged once every two weeks in the 150 gallons of water used for cleaning. Treatment (pH adjustment, flocculation, filtration) removes 85% of metals and 50% of organic compounds.

## IX. CERTIFICATION

The certification is to be signed as follows:

Corporation: by a principal officer of at least the level of vice president.

Partnership or sole proprietorship: by a general partner or the proprietor, respectively.

Municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

# TABLE C-1
# CODES FOR TREATMENT UNITS
# (For use with Form C, Item II, Part B)

### PHYSICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 1-A | Ammonia Stripping | 1-M | Grit Removal |
| 1-B | Dialysis | 1-N | Microstraining |
| 1-C | Diatomaceous Earth Filtration | 1-O | Mixing |
| 1-D | Distillation | 1-P | Moving Bed Filters |
| 1-E | Electrodialysis | 1-Q | Multimedia Filtration |
| 1-F | Evaporation | 1-R | Rapid Sand Filtration |
| 1-G | Flocculation | 1-S | Reverse Osmosis (Hyperfiltration) |
| 1-H | Flotation | 1-T | Screening |
| 1-I | Foam Fractionation | 1-U | Sedimentation (Settling) |
| 1-J | Freezing | 1-V | Slow Sand Filtration |
| 1-K | Gas-Phase Separation | 1-W | Solvent Extraction |
| 1-L | Grinding (Comminutors) | 1-X | Sorption |

### CHEMICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 2-A | Carbon Adsorption | 2-G | Disinfection (Ozone) |
| 2-B | Chemical Oxidation | 2-H | Disinfection (Other) |
| 2-C | Chemical Precipitation | 2-I | Electrochemical Treatment |
| 2-D | Coagulation | 2-J | Ion Exchange |
| 2-E | Dechlorination | 2-K | Neutralization |
| 2-F | Disinfection (Chlorine) | 2-L | Reduction |

### BIOLOGICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 3-A | Activated Sludge | 3-E | Pre-Aeration |
| 3-B | Aerated Lagoons | 3-F | Spray Irrigation/Land Application |
| 3-C | Anaerobic Treatment | 3-G | Stabilization Ponds |
| 3-D | Nitrification-Denitrification | 3-H | Trickling Filtration |

### OTHER PROCESSES

| | | | |
|---|---|---|---|
| 4-A | Discharge to Surface Water | 4-C | Reuse/Recycle of Treated Effluent |
| 4-B | Ocean Discharge Through Outfall | 4-D | Underground Injection |

### SLUDGE TREATMENT AND DISPOSAL PROCESSES

| | | | |
|---|---|---|---|
| 5-A | Aerobic Digestion | 5-M | Heat Drying |
| 5-B | Anaerobic Digestion | 5-N | Heat Treatment |
| 5-C | Belt Filtration | 5-O | Incineration |
| 5-D | Centrifugation | 5-P | Land Application |
| 5-E | Chemical Conditioning | 5-Q | Landfill |
| 5-F | Chlorine Treatment | 5-R | Pressure Filtration |
| 5-G | Composting | 5-S | Pyrolysis |
| 5-H | Drying Beds | 5-T | Sludge Lagoons |
| 5-I | Elutriation | 5-U | Vacuum Filtration |
| 5-J | Flotation Thickening | 5-V | Vibration |
| 5-K | Freezing | 5-W | Wet Oxidation |
| 5-L | Gravity Thickening | | |

## TABLE C-2
## TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY
**(For use with Form C, Item V, Part C)**

| FRACTION* / INDUSTRY CATEGORY | GC/MS Volatile | Acid | Base/Neutral | Pesticide |
|---|---|---|---|---|
| Adhesives and sealants | x | x | x | - |
| Aluminum forming | x | x | x | - |
| Auto and other laundries | x | x | x | x |
| Battery manufacturing | x | - | x | - |
| Coal mining | x | x | x | x |
| Coil coating | x | x | x | - |
| Copper forming | x | x | x | - |
| Electric and electronic compounds | x | x | x | x |
| Electroplating | x | x | x | - |
| Explosives manufacturing | - | x | x | - |
| Foundries | x | x | x | - |
| Gum and wood chemicals | x | x | x | x |
| Inorganic chemicals manufacturing | x | x | x | - |
| Iron and steel manufacturing | x | x | x | - |
| Leather tanning and finishing | x | x | x | x |
| Mechanical products manufacturing | x | x | x | - |
| Nonferrous metals manufacturing | x | x | x | x |
| Ore mining | x | x | x | x |
| Organic chemicals manufacturing | x | x | x | x |
| Paint and ink formulation | x | x | x | - |
| Pesticides | x | x | x | x |
| Petroleum refining | x | x | x | x |
| Pharmaceutical preparation | x | x | x | - |
| Photographic equipment and supplies | x | x | x | x |
| Plastic and synthetic materials manufacturing | x | x | x | x |
| Plastic processing | x | - | - | - |
| Porcelain enameling | x | - | x | x |
| Printing and publishing | x | x | x | x |
| Pulp and paperboard mills | x | x | x | x |
| Rubber Processing | x | x | x | - |
| Soap and detergent manufacturing | x | x | x | - |
| Steam electric power plants | x | x | x | - |
| Textile mills | x | x | x | x |
| Timber products processing | x | x | x | x |

*** The pollutants in each fraction are listed in item V-C.**

**x = Testing required.**

**- = Testing not required.**

## TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT

**(For use with Form C, Item V, Part D)**

| TOXIC POLLUTANT | | | | | |
|---|---|---|---|---|---|
| Asbestos | | | | | |
| **HAZARDOUS SUBSTANCES** | | | | | |
| 1. | Acetaldehyde | 35. | Ammonium thiocyanate | 69. | Calcium chromate |
| 2. | Acetic Acid | 36. | Ammonium thiosulfate | 70. | Calcium cyanide |
| 3. | Acetic anhydride | 37. | Amyl acetate | 71. | Calcium dodecylbenzenesulfonate |
| 4. | Acetone cyanohydrin | 38. | Aniline | 72. | Calcium hypochlorite |
| 5. | Acetyl bromide | 39. | Antimony pentachloride | 73. | Captan |
| 6. | Acetyl chloride | 40. | Antimony potassium tartrate | 74. | Carbaryl |
| 7. | Acrolein | 41. | Antimony tribromide | 75. | Carbofuran |
| 8. | Aerylonitrile | 42. | Antimony trichloride | 76. | Carbon disulfide |
| 9. | Adipic acid | 43. | Antimony trifluoride | 77. | Carbon tetrachloride |
| 10. | Aldrin | 44. | Antimony trioxide | 78. | Chlordane |
| 11. | Allyl alcohol | 45. | Arsenic disulfide | 79. | Chlorine |
| 12. | Allyl chloride | 46. | Arsenic pentoxide | 80. | Chlorobenzene |
| 13. | Aluminum sulfate | 47. | Arsenic trichloride | 81. | Chloroform |
| 14. | Ammonia | 48. | Arsenic trioxide | 82. | Chloropyrifos |
| 15. | Ammonium acetate | 49. | Arsenic trisulfide | 83. | Chlorosulfonic acid |
| 16. | Ammonium benzoate | 50. | Barium cyanide | 84. | Chromic acetate |
| 17. | Ammonium bicarbonate | 51. | Benzene | 85. | Chromic acid |
| 18. | Ammonium bichromate | 52. | Benzoic acid | 86. | Chromic sulfate |
| 19. | Ammonium bifluoride | 53. | Benzonitrile | 87. | Chromous chloride |
| 20. | Ammonium bisulfite | 54. | Benzoyl chloride | 88. | Cobaltous bromide |
| 21. | Ammonium carbamate | 55. | Benzyl chloride | 89. | Cobaltous formate |
| 22. | Ammonium carbonate | 56. | Beryllium chloride | 90. | Cobaltous sulfamate |
| 23. | Ammonium chloride | 57. | Beryllium fluoride | 91. | Coumaphos |
| 24. | Ammonium chromate | 58. | Beryllium nitrate | 92. | Cresol |
| 25. | Ammonium citrate | 59. | Butylacetate | 93. | Crotonaldehyde |
| 26. | Ammonium fluoroborate | 60. | n-Butylphthalate | 94. | Cupric acetate |
| 27. | Ammonium fluoride | 61. | Butylamine | 95. | Cupric acetoarsenite |
| 28. | Ammonium hydroxide | 62. | Butyric acid | 96. | Cupric chloride |
| 29. | Ammonium oxalate | 63. | Cadmium acetate | 97. | Cupric nitrate |
| 30. | Ammonium silicofluoride | 64. | Cadmium bromide | 98. | Cupric oxalate |
| 31. | Ammonium sulfamate | 65. | Cadmium chloride | 99. | Cupric sulfate |
| 32. | Ammonium sulfide | 66. | Cadmium arsenate | 100. | Cupric sulfate ammoniated |
| 33. | Ammonium sulfite | 67. | Calcium arsenite | 101. | Cupric tartrate |
| 34. | Ammonium tartrate | 68. | Calcium carbide | 102. | Cyanogen chloride |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 103. | Cyclohexane | 134. | Ethylene dichloride | 165. | Lead iodide |
| 104. | 2,4-D acid (2,4-Dichlorophenoxyacetic acid) | 135. | Ethylene diaminetetracetic acid (EDTA) | 166. | Lead nitrate |
| 105. | 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) | 136. | Ferric ammonium citrate | 167. | Lead stearate |
| 106. | DDT | 137. | Ferric ammonium oxalate | 168. | Lead sulfate |
| 107. | Diazinon | 138. | Ferric chloride | 169. | Lead sulfide |
| 108. | Dicamba | 139. | Ferric fluoride | 170. | Lead thiocyanate |
| 109. | Dichlobenil | 140. | Ferric nitrate | 171. | Lindane |
| 110. | Dichlone | 141. | Ferric sulfate | 172. | Lithium chromate |
| 111. | Dichlorobenzene | 142. | Ferrous ammonium sulfate | 173. | Malathion |
| 112. | Dichloropropane | 143. | Ferrous chloride | 174. | Maleic acid |
| 113. | Dichloropropene | 144. | Ferrous sulfate | 175. | Maleic anhydride |
| 114. | Dichloropropene-dichloropropane mix | 145. | Formaldehyde | 176. | Mercaptodimethur |
| 115. | 2,2-Dichloropropionic acid | 146. | Formic acid | 177. | Mercuric cyanide |
| 116. | Dichlorvos | 147. | Fumaric acid | 178. | Mercuric nitrate |
| 117. | Dieldrin | 148. | Furfural | 179. | Mercuric sulfate |
| 118. | Diethylamine | 149. | Guthion | 180. | Mercuric thiocyanate |
| 119. | Dimethylamine | 150. | Heptachlor | 181. | Mercurous nitrate |
| 120. | Dinitrobenzene | 151. | Hexachlorocyclopentadiene | 182. | Methoxychlor |
| 121. | Dinitrophenol | 152. | Hydrochloric acid | 183. | Methyl mercaptan |
| 122. | Dinitrotoluene | 153. | Hydrofluoric acid | 184. | Methyl methacrylate |
| 123. | Diquat | 154. | Hydrogen cyanide | 185. | Methyl parathion |
| 124. | Disulfoton | 155. | Hydrogen sulfite | 186. | Mevinphos |
| 125. | Diuron | 156. | Isoprene | 187. | Mexacarbate |
| 126. | Dodecylbenzesulfonic acid | 157. | Isopropanolamine dodecylbenzenesulfonate | 188. | Monoethylamine |
| 127. | Endosulfan | 158. | Kelthane | 189. | Monomethylamine |
| 128. | Endrin | 159. | Kepone | 190. | Naled |
| 129. | Epichlorohydrin | 160. | Lead acetate | 191. | Naphthalene |
| 130. | Ethion | 161. | Lead arsenate | 192. | Naphthenic acid |
| 131. | Ethylbenzene | 162. | Lead chloride | 193. | Nickel ammonium sulfate |
| 132. | Ethylenediamine | 163. | Lead fluoborate | 194. | Nickel chloride |
| 133. | Ethylene dibromide | 164. | Lead fluorite | 195. | Nickel hydroxide |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 196. | Nickel nitrate | 221. | Propargite | 246. | Sodium phosphate (tribasic) |
| 197. | Nickel sulfate | 222. | Propionic acid | 247. | Sodium selenite |
| 198. | Nitric acid | 223. | Propionic anhydride | 248. | Strontium choromate |
| 199. | Nitrobenzene | 224. | Propylene oxide | 249. | Strychnine |
| 200. | Nitrogen dioxide | 225. | Pyrethrins | 250. | Styrene |
| 201. | Nitrophenol | 226. | Quinoline | 251. | Sulfuric acid |
| 202. | Nitrotoluene | 227. | Resorcinol | 252. | Sulfur monochloride |
| 203. | Paraformaldehyde | 228. | Selenium oxide | 253. | 2,4,5-T acid (2,4,5-Trichlorophenoxy acetic acid) |
| 204. | Parathion | 229. | Silver nitrate | 254. | 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines) |
| 205. | Pentachlorophenol | 230. | Sodium | 255. | 2,4,5-T esters (2,4,5-Trichlorophenoxy acetic acid esters) |
| 206. | Phenol | 231. | Sodium arsenate | 256. | 2,4,5-salts (2,4,5-Trichlorophenoxy acetic acid salts) |
| 207. | Phosgene | 232. | Sodium arsenite | 257. | 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid) |
| 208. | Phosphoric acid | 233. | Sodium bichromate | 258. | 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters) |
| 209. | Phosphorus | 234. | Sodium bifluoride | 259. | TDE (Tetrachlorodiphenyl ethane) |
| 210. | Phosphorus oxychloride | 235. | Sodium bisulfite | 260. | Tetraethyl lead |
| 211. | Phosphorus pentasulfide | 236. | Sodium chromate | 261. | Tetraethyl pyrophosphate |
| 212. | Phosphorus trichloride | 237. | Sodium cyanide | 262. | Thallium sulfate |
| 213. | Polychlorinated biphenyls (PCB) | 238. | Sodium dodecylbenzenesulfonate | 263. | Toluene |
| 214. | Potassium arsenate | 239. | Sodium fluoride | 264. | Toxaphene |
| 215. | Potassium arsenite | 240. | Sodium hydrosulfide | 265. | Trichlorofon |
| 216. | Potassium bichromate | 241. | Sodium hydroxide | 266. | Trichloroethylene |
| 217. | Potassium chromate | 242. | Sodium hypochlorite | 267. | Trichlorophenol |
| 218. | Potassium cyanide | 243. | Sodium methylate | 268. | Triethanolamine dodecylbenzenesulfonate |
| 219. | Potassium hydroxide | 244. | Sodium nitrate | 269. | Triethylamine |
| 220. | Potassium permanganate | 245. | Sodium phosphate (dibasic) | 270. | Trimethylamine |
| 271. | Uranyl acetate | 280. | Zinc ammonium chloride | 289. | Zinc nitrate |
| 272. | Uranyl nitrate | 281. | Zinc borate | 290. | Zinc phenolsulfonate |
| 273. | Vanadium pentoxide | 282. | Zinc bromide | 291. | Zinc phosphate |
| 274. | Vanadyl sulfate | 283. | Zinc carbonate | 292. | Zinc silicofluoride |
| 275. | Vinyl acetate | 284. | Zinc chloride | 293. | Zinc sulfate |
| 276. | Vinylidene chloride | 285. | Zinc cyanide | 294. | Zirconium nitrate |
| 277. | Xylene | 286. | Zinc fluoride | 295. | Zirconium potassium fluoride |
| 278. | Xylenol | 287. | Zinc formate | 296. | Zirconium sulfate |
| 279. | Zinc acetate | 288. | Zinc hydrosulfonate | 297. | Zirconium tetrachloride |

**Intent to Deviate from LG&E Energy Terms and Conditions**

We have elected to enter into a contract or transaction with Evapar
(company name)
under terms that are inconsistent with or do not include one or more corporate, legal, commercial or safety provisions as defined in the document or documents checked below:

_X_General Service Agreement
___ Professional Service Agreement
_X_ Code of Business Conduct
_X_ LG&E Energy LLC\ Safety Rules
_X_ Passport
_X_ Other: _Insurance_____

for the following reason(s): (Please provide an attachment if necessary)

Order lead time for one time installation by Vendor of laboratory equipment is insufficient to complete certification

Tom Shaw 11/7/05
Proponent (Signature) Date

Director/General Manager (Signature) 11/7/05 Date

Tom Shaw
Proponent Name (Please print)

Director/General Manager Name (Please print)

Note: A copy of this signed form must be sent, along with other appropriate certifying documentation, to the Supply Chain Dept – BOC – 2.

**Intent to Deviate from LG&E Energy Terms and Conditions**

We have elected to enter into a contract or transaction with Perkin Elmer
(company name)
under terms that are inconsistent with or do not include one or more corporate, legal, commercial or safety provisions as defined in the document or documents checked below:

__X_General Service Agreement
____ Professional Service Agreement
_X__Code of Business Conduct
_X_ LG&E Energy LLC\ Safety Rules
_X__Passport
_X__Other: _Insurance_____

for the following reason(s): (Please provide an attachment if necessary)

Order lead time for one time installation by Vendor of laboratory equipment is insufficient to complete certification

Tom Shaw 11/7/05
Proponent (Signature) Date

Director/General Manager (Signature) 11/7/05 Date

Tom Shaw
Proponent Name (Please print)

Director/General Manager Name (Please print)

Note: A copy of this signed form must be sent, along with other appropriate certifying documentation, to the Supply Chain Dept – BOC – 2.

**Intent to Deviate from LG&E Energy Terms and Conditions**

We have elected to enter into a contract or transaction with Preiser Scientific
(company name)
under terms that are inconsistent with or do not include one or more corporate, legal, commercial or safety provisions as defined in the document or documents checked below:

_X__General Service Agreement
___ Professional Service Agreement
_X_ Code of Business Conduct
_X_ LG&E Energy LLC\ Safety Rules
_X__Passport
_X_ Other: _Insurance_____

for the following reason(s): (Please provide an attachment if necessary)

Order lead time for one time installation by Vendor of laboratory equipment is insufficient to complete certification

Tom Shaw 11/7/05
Proponent (Signature) Date

Director/General Manager (Signature) 11/7/05 Date

Tom Shaw
Proponent Name (Please print)

Director/General Manager Name (Please print)

Note: A copy of this signed form must be sent, along with other appropriate certifying documentation, to the Supply Chain Dept – BOC – 2.

**Intent to Deviate from LG&E Energy Terms and Conditions**

We have elected to enter into a contract or transaction with Smith and Schaefer
(company name)
under terms that are inconsistent with or do not include one or more corporate, legal, commercial or safety provisions as defined in the document or documents checked below:

_X_ General Service Agreement
___ Professional Service Agreement
_X_ Code of Business Conduct
_X_ LG&E Energy LLC\ Safety Rules
_X__Passport
_X__Other: _Insurance_____

for the following reason(s): (Please provide an attachment if necessary)

Order lead time for one time installation by Vendor of laboratory equipment is insufficient to complete certification

Tom Shaw 11/7/05
Proponent (Signature) Date

Director/General Manager (Signature) Date

Tom Shaw
Proponent Name (Please print)

Director/General Manager Name (Please print)

Note: A copy of this signed form must be sent, along with other appropriate certifying documentation, to the Supply Chain Dept – BOC – 2.

# KPDES FORM 1 – INSTRUCTIONS

Listed below are explanations of select Form 1 questions. If further information is needed concerning any question, pleasc **contact Division of Water, KPDES Branch at (502) 564-3410.**

**I. Facility Location and Contact Information**

A. Use the official or legal name of the business, company, municipality, etc. requesting permit.

B. The facility name should be the name by which the facility is commonly known and/or uniquely identified. The information given as the facility name and location address should be the actual loeation of the facility (i.e. road name, highway number, not the P O Box address).

C. The facility owner/contaet address should be the legal permittee of record and is the address where correspondence regarding thc application, permit, etc. for the facility will be sent unless otherwise indicated.

**II. Facility Description**

A. Briefly describe the nature of the business and the activities being conducted that require a KPDES permit.

B. The SIC codes are numbers and deseriptions of activities classified by the Executive Office of the President, Offiee of Management and Budget. These are found in the 1987 Edition of the Standard Industrial Classification (SIC) Manual. List the SIC codes(s) that best deserihe the products or serviccs provided by the facility in descending order of importancc. If an SIC code book is not available, please describe in detail the nature of the business and aetivities conducted so that an appropriatc code can be assigned.

**III. Facility Location**

A. Attaeh a U.S. Geological Survcy (USGS), 7 1/2 minute topographic quadranglc map(s) extending at least one mile beyond the property boundary of the discharge sourcc. Dcpict or mark the facility and each of its intake and discharge struetures. Also mark the locations of those wells, springs, surfaee water bodies, and drinking water wells listed in public records or otherwise known to the applicant within one-quarter mile of the facility property boundary. USGS maps may be obtained from the University of Kentucky, Mines and Minerals Bldg. Room 106, Lexington, Kentucky 40506. Phone: (859) 257-3896.

B. List the county and, if applicable, city where facility is locatcd.

C. List the body of watcr rcceiving discharge.

D. List the latitudc and longitude for thc facility site. The latitudc/longitude reading for the site should be taken at the influent to thc wastewater treatment plant, if applicable.

E. List the method uscd to obtain the latitudc and longitude (i.e. topo map coordinatcs, GPS reading, etc.)

F. List the facility's Dun and Bradstreet Number if applicable.

**IV. Owner/Operator Information**

A. Place a check in the applicablc type ownership as listed.

B. These sections must be completed by **all municipal and sanitary wastewater applicants** and other facilities as applicablc.

List the name and address of the pcrson who operates the sewage treatmcnt plant.

Indicate if the operator is also the owner.

The operator must be currently certified with the Division of Water. For information concerning those requirements, contact: Division of Water, Certification Section, at (502) 564-3410.

List thc Opcrator's Certification Class and Ccrtification Number.

**V.** List any existing environmental permits which the facility has or will be applying for.

**VI.** List the address whcrc Discharge Monitoring Report (DMR) forms are to be mailed.

**VII. Application Filing Fee**

The paymcnt of a filing fee as listed below must accompany the application for a KPDES Permit. **(Your check must be made payable to "Kentucky State Treasurer.")** This fec will be applied toward the final dischargc permit fee. The filing fee is not refundable if the application is withdrawn or the permit is denied. Listed below arc the facility categories, associatcd base fees, and application filing fees. (See the "General Instructions" for definitions of facility categories.)

| Facility Category | Base Fee | Application Filing Fee |
|---|---|---|
| Major Industry | $3,200 | $640 |
| Minor Industry | $2,100 | $420 |
| Non-Process Industry | $1,000 | $200 |
| Large Non-POTW | $1,700 | $340 |
| Intermediate Non-POTW | $1,500 | $300 |
| Small Non-POTW | $1,000 | $200 |
| Agriculturc | $1,200 | $240 |
| Surface Mining Operation | $1,200 | $240 |
| 501(c)(3) | $100 | $20 |

**If this application is for a new project, see the General Instructions for the applicable Construction Permit fee.**

**A permit application cannot be processed unless the application filing fee and (if applicable) construction permit fee is enclosed. Make your check payable to "Kentucky State Treasurer."**

**VIII. Certification**

The permit application must bc signed as follows:

**Corporation:** by a principal executive officer of at least thc lcvcl of vice president.

**Partnership or sole proprietorship:** by a general partncr or the proprietor respectively.

**Municipality, state, federal, or other public agency:** by either a principal executive officer or ranking elected official.

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)

## GENERAL INSTRUCTIONS

## INTRODUCTION

The Kentucky Pollutant Discharge Elimination System (KPDES) regulations require a permit for the discharge of pollutants from any point source into waters of the commonwealth. The requirements for the KPDES program are contained in 401 Kentucky Administrative Regulations (KAR) 5:001 and 5:005 through 5:080 and KRS 224.70-120. The regulations were promulgated pursuant to, and in accordance with, Kentucky Revised Statutes (KRS) Chapters 13A and 224 and the Federal Water Pollution Control Act. Copies of the KPDES regulations are available upon request from the Division of Water.

Listed below are examples of specific categories of operations that require KPDES permits:

1. Municipal Wastewater Dischargers
2. Manufacturing Establishments and Mining Operations
3. Commercial Establishments
4. Concentrated Animal Feeding Operations
5. Concentrated Aquatic Animal Production Facilities
6. Discharges into Aquacultural Projects
7. Discharges from Separate Storm Sewers
8. Silvicultural Point Sources

## THE KPDES PERMIT APPLICATION

Any person who is required to have a KPDES permit must complete, sign, and submit an application to the Division of Water. An application for a new discharge must be received by the division at least one hundred and eighty (180) days before the proposed discharge is due to commence. Likewise, an application to reissue an expiring permit must be received one hundred and eighty (180) days before the expiration date.

The KPDES permit application is comprised of two distinct forms. All applicants must complete Form 1. This is a general form that requests information regarding facility location, owner/operator addresses, existing environmental permits, etc.

In addition to Form 1, an applicant must fill out a specialized form that relates directly to the type of operation. Listed below are the four specialized forms that cover the four basic categories of discharge operations.

FORM A -- Municipal Wastewater Discharges
FORM B -- Animal Waste Management
FORM C -- Manufacturing Establishments and Mining Operations
SHORT FORM C -- Services, Wholesale and Retail Trade, and All Other Establishments
FORM F -- Storm Water Associated with Industrial Activity

It is important to fill out application forms completely and accurately. The Division of Water cannot begin the application review process without a completed application. Applicants should keep records of all data used to complete permit applications and any submitted supplemental information, for a period of at least three years from

the date the application is signed.

## CONFIRMATION OF A COMPLETE APPLICATION

An application submitted for a KPDES new source or a KPDES new discharger will be reviewed for completeness by the Division of Water within thirty days of receipt. Likewise, an application submitted for an existing source will be reviewed for completeness within thirty days of receipt.

The division upon completing the review, will notify the applicant in writing if the application can be considered administratively complete. If the application is determined incomplete, a list of missing informational topics will be provided to the applicant. In the case of an existing source application, a date for submitting the necessary information will be established.

Upon receiving the requested additional information, the division will notify the applicant if the application can be considered administratively complete. If an applicant fails or refuses to correct deficiencies in an application, the permit can be denied and appropriate enforcement actions can be taken under KRS Chapter 224.

The applicant should be aware that he/she may be requested to provide additional information to allow the cabinet to make its decision regarding the application after receiving notification that the application is complete. Requests for such additional material will not render an application incomplete.

## PERMIT FEES

Every applicant who is issued a KPDES permit, with the exception of applicants for publicly owned wastewater treatment plants, is assessed a permit fee according to the type of operation. The following is a list of the eight base fee categories, their definitions, and their associated fee dollar amounts:

| FEE CATEGORY | BASE PERMIT FEE |
|---|---|

1. **Major Industry** ..... **$3,200.00**

   Industries that generate and discharge process-related wastewater while engaged in commercial activities including but not limited to, resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries have a design flow rate of greater than or equal to 50,000 gallons per day of process wastewater containing conventional, nonconventional, or thermal pollutants.

2. **Minor Industry** ..... **$2,100.00**

   Industries that generate and discharge process-related wastewater while engaged in commercial activities including but not limited to, resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries have a design flow rate of less than 50,000 gallons per day of process wastewater containing conventional, nonconventional, or thermal pollutants.

3. **Non-Process Industry** ..... **$1,000.00**

   Industries that generate and discharge only non-process wastewater while engaged in commercial activities including resource recovery, manufacturing, products distribution, and wholesale and retail trade. These industries discharge non-process wastewater (e.g. non-contact cooling or storm water

runoff) or wastewater that neither contains nor is likely to contain toxic pollutants in concentrations equal to or greater than the ninety-six hour lethal concentration for fifty percent mortality (96 hr. LC50) for a representative indigenous aquatic organism.

4. **Large Non-Publicly Owned Treatment Works ..... $1,700.00**

   Facilities which have a design flow rate of greater than or equal to 50,000 gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

5. **Intermediate Non-Publicly Owned Treatment Works ..... $1,500.00**

   Facilities which have a design flow rate of greater than or equal to 10,000 gallons per day and less than fifty thousand gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

6. **Small Non-Publicly Owned Treatment Works ..... $1,000.00**

   Facilities which have a design flow rate of less than 10,000 gallons per day of wastewater containing only conventional pollutants, and are not a publicly owned treatment works.

7. **Agricultural Operation ..... $1,200.00**

   Operations that use confined feeding in livestock or livestock by-product production with manure handling facilities that qualify as concentrated animal feeding operations.

8. **Surface Mining Operation ..... $1,200.00**

   Facilities required to have a permit under 405 KAR Chapters 7-26.

9.* **501(c)(3) Facilities ..... $ 100.00**

   * Note: 501(c)(3) Exemption.
   Legislation enacted by the 1990 General Assembly reflected some changes in KRS 224.16-050 relating to permit fees. Nonprofit organizations which have been qualified under Section 501(c)(3) of the Internal Revenue Code and which operate their own treatment facilities which are designed for capacities less than 10,000 gallons per day shall be charged a fee no greater than $50.00 by the cabinet to process a construction permit nor a fee greater than $20.00 per year for an operating permit for one (1) facility. A copy of the 501(c)(3) exemption letter must be submitted with your application to qualify for this exemption.

**APPLICATION FEES**

Twenty percent (20%) of the appropriate permit base fee shown in the fee schedule must be submitted with the KPDES permit application. This twenty percent is considered an application filing fee and is applied toward the total base fee at the time of permit issuance. The balance must be paid before the permit is issued. The application fee is not refundable if the permit application is withdrawn or if the permit is denied. **Your check must be made payable to Kentucky State Treasurer**.

## CONSTRUCTION FEES

Applicants requiring construction permits must submit the fee noted below with their permit application. Should the cabinet deny the construction permit, the fee for the construction permit will be refunded. The construction permit fee and the KPDES discharge permit application filing fee must be submitted with the KPDES permit application. The remainder of the KPDES discharge permit fee must be paid prior to permit issuance.

EXAMPLE: The total fee for a new small non-publicly owned treatment works is $1,450 ($450 for the construction permit and $1,000 for the discharge permit). The amount to be submitted with the KPDES application is $650. The remaining $800 is due prior to permit issuance.

1. **Large Facility ..... $1,800.00**

   Facilities with design flow greater than or equal to 50,000 gallons per day.

2. **Intermediate Facility ..... $ 900.00**

   Facilities with design flow greater than or equal to 10,000 gallons per day and less than fifty thousand gallons per day.

3. **Small Facility ..... $ 450.00**

   Facilities with design flow less than 10,000 gallons per day.

4.* **501(c)(3) Facilities ..... $ 50.00**

   * A copy of 501(c)(3) exemption must be submitted with your application.

## CONCLUSION

Detailed instructions are provided with each application form. These instructions explain select questions from the form and must be read and referred to as the application is being completed. If more space is needed to complete a question, the applicant must submit a separate sheet entitled "Additional Information."

If specific questions arise concerning any aspect of the application, feel free to call the Division of Water at (502) 564-3410.

## KPDES PERMIT APPLICATION GLOSSARY

**Bypass** -- an arrangement of pipes, conduits, gates and valves whereby all or a portion of the flow is diverted and results in a discharge (generally an intentional act at the plant).

**Certified Operator** -- possesses a current operator certification issued by the Division of Water based on experience, education, and examination.

**Combined Sanitary and Storm Collection System** -- a system of pipes which carries a mixture of stormwater runoff, surface water runoff and other wastewater such as domestic or industrial wastewater.

**Composite Sample** -- (a) Not less than four (4) effluent portions collected at regular intervals over a period of eight (8) hours and combined in proportion to flow; or (b) Not less than four (4) combined equal volume effluent portions collected over a period of eight (8) hours at intervals proportional to flow; or (c) Not less than twelve (12) effluent portions collected at regular intervals over a period of twenty-four (24) hours which are composited in proportion to flow, or (d) an effluent portion collected continuously over a period of twenty-four (24) hours at a rate proportional to flow; or (e) an effluent portion consisting of a minimum of four (4) combined equal volume grab samples taken approximately two (2) hours apart.

**Concentrated Animal Feeding Operation** -- an animal feeding operation which meets the criteria in 401 KAR 5:060, Section 11 or that which the cabinet designates under Section 5(3).

**Concentrated Aquatic Animal Production** -- a hatchery, fish farm, or other facility which meets the criteria in 401 KAR 5:060, Section 12 or that which the director designates under Section 6(3).

**Continuous Discharge** -- a discharge which occurs without interruption throughout the operating hours of the facility.

**Grab Sample** -- a single instantaneous portion of the effluent.

**Intermittent Discharge** -- a discharge which occurs and ceases at regular or irregular intervals either during or outside of the operating hours of the facility.

**Overflow** -- an overflow occurs when the volume of water exceeds the capacity of a transport system, causing the extra water to be spilled or forced out of the system into a waterway (generally an unintentional act in the collection system).

**Proposed Facility** -- a facility not now in operation or not now considered a concentrated operation.

**Publicly Owned Treatment Works (POTW)** -- facilities which are owned by the Commonwealth or a municipality, discharge only conventional pollutants, and which are eligible for funding under the U.S. EPA's 205(g) construction grants program.

**Schematic of Water Flow** -- a line drawing of wastewater flow through the facility producing discharges. Average flow rates for various wastewaters (if possible) and specific treatment processes are to be indicated.

**Separate Sanitary Collection System** -- a system of pipes that carries: (1) Domestic wastewater with storm and surface water excluded; (2) Wastewater discharged from sanitary conveniences of dwellings (including hotels),

office buildings, industrial parks, or institutions; (3) The water supply of a community after it has been used and discharged.

**Separate Storm Collection System --** a system of pipes that carries only runoff caused by precipitation.

**TCDD Standard for Quantification** -- a precise measurement of 2,3,7,8-tetrachlorodibenzo-p-dioxin for comparison to the EPA standard.

**Upset --** an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

TestAmerica
ANALYTICAL TESTING CORPORATION

**Nashville Division**

382226

**COOLER RECEIPT FORM** **BC#**

**Client Name :** Western KY Energy

**Cooler Received/Opened On:** 7/14/04 **Accessioned By:** Mark Beasley

M. Beasley

**Log-in Personnel Signature**

1. **Temperature of Cooler when triaged:** 3.4 **Degrees Celsius**
2. **Were custody seals on outside of cooler?**..... (YES)...NO....NA
   a. **If yes, how many, what kind and where:** 3 Front
3. **Were custody seals on containers and intact?**..... (NO)...YES...NA
4. **Were the seals intact, signed, and dated correctly?**..... (YES)...NO...NA
5. **Were custody papers inside cooler?**..... (YES)...NO...NA
6. **Were custody papers properly filled out (ink, signed, etc)?**..... (YES)...NO...NA
7. **Did you sign the custody papers in the appropriate place?**..... (YES)...NO...NA
8. **What kind of packing material used?** (Bubblewrap) Peanuts Vermiculite Other None
9. **Cooling proccss:** (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. **Did all containers arrive in good condition ( unbroken)?**..... (YES)..NO...NA
11. **Were all container labels complete (#, date, signed, pres., etc)?**..... (YES)...NO...NA
12. **Did all contaiuer labels and tags agree with custody papers?**..... (YES)...NO...NA
13. **Were correct containers used for the analysis requested?**..... (YES)...NO...NA
14. a. **Were VOA vials received?**..... (YES)...NO...NA
    b. **Was there any observable head space present in any VOA vial?**..... (NO)..YES...NA
15. **Was sufficient amount of sample sent in each container?**..... (YES)...NO...NA
16. **Were correct preservatives used?**..... (YES)...NO...NA

    **If not, record standard ID of preservative used here**_____
17. **Was residual chlorine present?**..... (NO)..YES...NA
18. **Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:**

0787 0879 ____ ____ ____

UPS Velocity Airborne Route Off-street (Fedex) Misc.

19. **If a Non-Conformance exists, see attached or comments below:**

(1)

# TestAmerica
ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

**382226**

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N. Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Mike Galbraith / Tom Shaw
Telephone Number: 270-844-6030  Fax: 270-844-6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES
Project #: Priority Pollutants
Site/Location ID:  State: KY
Report To: Mike Galbraith / Tom Shaw
Invoice To: Attn: accounting
Quote #: 070104212199  PO#: 329699

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: (Y) N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: PP0 BNAs | PP0 metals | cyanide | PP0 VOAs | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 001 MP | 7-13-04 | 1055 | G | | WW | | | | | | X | | X | | | | | | | | 107 | 978 | 2 bottles 1000ml |
| 001 MP | | 1055 | | | WW | X | | | | | | | | X | | | | | | | | | |
| 001 MP | | 1055 | | | WW | | | X | | | | | | | X | | | | | | | | |
| 001 MP | | 1055 | | | WW | | X | | | | | | | | | X | | | | | | | 3 vials |
| 002NSSP | | 0945 | | | WW | | | | | | X | | X | | | | | | | | 107 | 979 | x2 |
| 002NSSP | | 0945 | | | WW | X | | | | | | | | X | | | | | | | | | |
| 002NSSP | | 0945 | | | WW | | | X | | | | | | | X | | | | | | | | |
| 002NSSP | | 0945 | | | WW | | X | | | | | | | | | X | | | | | | | x3 |
| | | | | | WW | | | | | | | | | | | | | | | | | | |
| | | | | | WW | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp: 3.4
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| Relinquished By | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| | 7-13-04 | 1530 | | 7/14/04 | 8:20 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

(2)

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

# 382226

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: YES

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N. Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Mike Galbraith
Telephone Number: 270-844-6030  Fax: 270-844-6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: WILSON KPDES
Project #: Priority Pollutants
Site/Location ID:  State: KY
Report To: Mike Galbraith / Tom Snow
Invoice To: Attn: Accounting
Quote #: 070104212199  PO#: 329699

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: (Y) N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other) | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: PP03NAS | PP0 metals | cyanide | PP0 VOAS | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 003 SD | 7-13-04 | 1135 | G | | WW | | | | | | X | | X | | | | | | | | | 107 | 98 | x2 |
| 003 SD | | 1135 | | | | X | | | | | | | | X | | | | | | | | | | |
| 003 SD | | 1135 | | | | | | X | | | | | | | X | | | | | | | | | |
| 003 SD | | 1135 | | | | | X | | | | | | | | | X | | | | | | | | x3 |
| 005 MCP | | 1150 | | | | | | | | | X | | X | | | | | | | | | 107 | 98 | x2 |
| 005 MCP | | 1150 | | | | X | | | | | | | | X | | | | | | | | | | |
| 005 MCP | | 1150 | | | | | | X | | | | | | | X | | | | | | | | | |
| 005 MCP | | 1150 | | | | | X | | | | | | | | | X | | | | | | | | x3 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 7.13.04 | 1538 | Received By: MB | Date: 7/14/04 | Time: 8:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

(3)

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Fax: 615-726-3404

# 382226

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: YES

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N. Main Street
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Sampler Signature:

Project Name: Wilson KPDES
Project #: Priority Pollutants
Site/Location ID:  State: KY
Report To: Mike Galbraith / Tom Shaw
Invoice To: Attn Accounting
Quote #: 07010421219 PO#: 329699

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: (Y) N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: PPO BNAs | PPO metals | cyanide | PPO VOAs | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 006 CTB | 7-13-04 | 1120 | G | | WW | | | | | | X | | X | | | X | | | | | 107 | 982 | x2 |
| 006 CTB | | 1120 | | | | X | | | | | | | | X | | | | | | | | | |
| 006 CTB | | 1120 | | | | | | X | | | | | | | X | | | | | | | | |
| 006 CTB | | 1120 | | | | | X | | | | | | | | | X | | | | | | | x3 |
| 007 SIO | | 1045 | | | | | | | | | X | | X | | | | | | | | 107 | 983 | x2 |
| 007 SIO | | 1045 | | | | X | | | | | | | | X | | | | | | | | | |
| 007 SIO | | 1045 | | | | | | X | | | | | | | X | | | | | | | | |
| 007 SIO | | 1045 | | | | | X | | | | | | | | | X | | | | | | | x3 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

**LABORATORY COMMENTS:**
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | Date: | Time: | Received By: | Date: | Time: |
|---|---|---|---|---|---|
| Relinquished By: | 7-13-04 | 1530 | MB | 7/14/04 | 8:00 |
| Relinquished By: | | | | | |
| Relinquished By: | | | | | |

(4)

# 382226

**TestAmerica** ANALYTICAL TESTING CORPORATION

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring: Yes

Client Name: Western Kentucky Energy  Client #: 8407
Address: 145 N Main Street
City/State/Zip Code: Henderson KY 42419
Project Manager: Mike Galbraith
Telephone Number: 270-844-6030  Fax: 270 844-6023
Sampler Name: (Print Name) Michael Galbraith
Sampler Signature:

Project Name: Wilson KPDES
Project #: Priority Pollutants
Site/Location ID:  State: KY
Report To: Mike Galbraith / Tom Shaw
Invoice To: Attn: Accounting
Quote #: D701042121994  PO#: 329699

TAT
___ Standard
___ Rush (surcharges may apply)
Date Needed:
Fax Results: (Y) N

QC Deliverables
___ None
___ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

| SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other | Preservation & # of Containers: $HNO_3$ | HCl | NaOH | $H_2SO_4$ | Methanol | None | Other (Specify) | Analyze For: PP0 BNA'S | PP0 metals | cyanide | PP0 VOA'S | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 008 BI | 7-13-04 | 1110 | G | | WW | | | | | | X | | X | | | | | | | | | 107 | 984 | x 2 |
| 008 PI | | 1110 | | | | X | | | | | | | | X | | | | | | | | | | |
| 008 PI | | 1110 | | | | | | X | | | | | | | X | | | | | | | | | |
| 008 PI | | 1110 | | | | | X | | | | | | | | | X | | | | | | | | x 3 |
| 009 SSSP | | 1015 | | | | | | | | | X | | X | | | X | | | | | | 107 | 985 | x 2 |
| 009 SSSP | | 1015 | | | | X | | | | | | | | X | | | | | | | | | | |
| 009 SSSP | | 1015 | | | | | | X | | | | | | | X | | | | | | | | | |
| 009 SSSP | | 1015 | | | | | X | | | | | | | | | X | | | | | | | | x 3 |
| Trip Blank | | | | | | | | | | | | | | | | | | | | | | 107 | 986 | |

Special Instructions:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By: | Date: 7-13-04 | Time: 1530 | Received By: MB | Date: 7/14/04 | Time: 8:00 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

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7/20/04

# CASE NARRATIVE

***WESTERN KY ENERGY 8407***
***TOM SHAW***
***P.O. BOX 1518***
***HENDERSON, KY 42419-1518***

This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project identified below:

Project Name: WILSON KPDES
Project Number: PRIORITY POLLUTANTS.
Laboratory Project Number: 382226.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. Any QC recoveries outside laboratory control limits are flagged individually with an #. Sample specific comments and quality control statements are included in the Laboratory notes section of the analytical report for each sample report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.



| Sample Identification | Lab Number | Collection Date |
|---|---|---|
| 001 MP | 04-A107978 | 7/13/04 |
| 002 NSSP | 04-A107979 | 7/13/04 |
| 003 SD | 04-A107980 | 7/13/04 |
| 005 MCP | 04-A107981 | 7/13/04 |
| 006 CTB | 04-A107982 | 7/13/04 |
| 007 SIO | 04-A107983 | 7/13/04 |
| 008 PI | 04-A107984 | 7/13/04 |
| 009 SSSP | 04-A107985 | 7/13/04 |
| Trip Blank | 04-A107986 | |

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| Sample Identification | Lab Number | Collection Date |
|---|---|---|

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 7/20/04

Johnny A. Mitchell, Operations Manager
Michael H. Dunn, M.S., Technical Director
Pamela A. Langford, Technical Services
Eric S. Smith, QA/QC Director
Gail A. Lage, Technical Services
Glenn L. Norton, Technical Services
Kelly S. Comstock, Technical Services
Roxanne L. Connor, Technical Services

Laboratory Certification Number: 90038

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107978
Sample ID: 001 MP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:55
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107978
Sample ID: 001 MP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:19 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107978
Sample ID: 001 MP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Chloroform | 0.0052 | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107978
Sample ID: 001 MP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:15 | J.Haley | 624 | 6534 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | 0.0220 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | 0.0110 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 104. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107978
Sample ID: 001 MP
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 102. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 50. | 12. - 135. |
| surr-2-Fluorobiphenyl | 56. | 14. - 132. |
| surr-Terphenyl d14 | 89. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 10. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 30. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107979
Sample ID: 002 NSSP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 9:45
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107979
Sample ID: 002 NSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 21:50 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107979
Sample ID: 002 NSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107979
Sample ID: 002 NSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 4:42 | J.Haley | 624 | 6534 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | 0.377 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | 0.0010 | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | 0.0250 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107979
Sample ID: 002 NSSP
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 105. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 44. | 12. - 135. |
| surr-2-Fluorobiphenyl | 51. | 14. - 132. |
| surr-Terphenyl d14 | 78. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 13. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 40. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107980
Sample ID: 003 SD
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:35
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107980
Sample ID: 003 SD
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:22 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107980
Sample ID: 003 SD
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107980
Sample ID: 003 SD
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:00 | J.Haley | 624 | 7612 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 102. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107980
Sample ID: 003 SD
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 101. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 108. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 44. | 12. - 135. |
| surr-2-Fluorobiphenyl | 48. | 14. - 132. |
| surr-Terphenyl d14 | 91. | 11. - 142. |
| surr-Phenol d5 | 9. | 5. - 79. |
| surr-2-Fluorophenol | 12. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 46. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107981
Sample ID: 005 MCP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:50
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107981
Sample ID: 005 MCP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 22:53 | D. Harris | 625 | 8898 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107981
Sample ID: 005 MCP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107981
Sample ID: 005 MCP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/16/04 | 10:42 | J.Haley | 624 | 7765 |
| *METALS* | | | | | | | | | |
| Mercury | 0.0013 | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | 0.0360 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0080 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | 0.0020 | mg/l | 0.0020 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | 0.0440 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | 0.164 | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0200 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | 0.122 | mg/l | 0.100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 96. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107981
Sample ID: 005 MCP
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 99. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 106. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 100. | 81. - 126. |
| surr-Nitrobenzene-d5 | 49. | 12. - 135. |
| surr-2-Fluorobiphenyl | 59. | 14. - 132. |
| surr-Terphenyl d14 | 66. | 11. - 142. |
| surr-Phenol d5 | 11. | 5. - 79. |
| surr-2-Fluorophenol | 15. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 60. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107982
Sample ID: 006 CTB
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:20
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107982
Sample ID: 006 CTB
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:24 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107982
Sample ID: 006 CTB
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Chloroform | 0.0078 | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107982
Sample ID: 006 CTB
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:27 | J.Haley | 624 | 7612 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | 0.0230 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | 0.0110 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107982
Sample ID: 006 CTB
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 101. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 106. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 104. | 81. - 126. |
| surr-Nitrobenzene-d5 | 48. | 12. - 135. |
| surr-2-Fluorobiphenyl | 60. | 14. - 132. |
| surr-Terphenyl d14 | 90. | 11. - 142. |
| surr-Phenol d5 | 29. | 5. - 79. |
| surr-2-Fluorophenol | 28. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 42. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107983
Sample ID: 007 SIO
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:45
Date Received: 7/14/04
Time Received: 8:00


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107983
Sample ID: 007 SIO
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/19/04 | 23:55 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107983
Sample ID: 007 SIO
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,4-Dichlorobenzene | 0.0010 | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Toluene | 0.0014 | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107983
Sample ID: 007 SIO
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 22:54 | J.Haley | 624 | 7612 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | 0.0170 | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | 0.0500 | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107983
Sample ID: 007 SIO
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 102. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 105. | 81. - 126. |
| surr-Nitrobenzene-d5 | 52. | 12. - 135. |
| surr-2-Fluorobiphenyl | 60. | 14. - 132. |
| surr-Terphenyl d14 | 78. | 11. - 142. |
| surr-Phenol d5 | 34. | 5. - 79. |
| surr-2-Fluorophenol | 37. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 57. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107984
Sample ID: 008 PI
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 11:10
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107984
Sample ID: 008 PI
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:26 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107984
Sample ID: 008 PI
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Chloroform | 0.0010 | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107984
Sample ID: 008 PI
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:21 | J.Haley | 624 | 7612 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/16/04 | 14:33 | K.Saiyasak | 335.3 | 7245 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 107. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107984
Sample ID: 008 PI
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 109. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 106. | 81. - 126. |
| surr-Nitrobenzene-d5 | 50. | 12. - 135. |
| surr-2-Fluorobiphenyl | 54. | 14. - 132. |
| surr-Terphenyl d14 | 82. | 11. - 142. |
| surr-Phenol d5 | 31. | 5. - 79. |
| surr-2-Fluorophenol | 39. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 63. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107985
Sample ID: 009 SSSP
Sample Type: Water
Site ID:

Date Collected: 7/13/04
Time Collected: 10:15
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *EXTRACTABLE ORGANICS* | | | | | | | | | |
| Acenaphthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Acenaphthylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzo(a)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzo(a)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzo(b)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzo(g,h,i)perylene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Benzo(k)fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 4-Bromophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Butylbenzylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 4-Chloro-3-methylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| bis(2-Chloroethoxy)methane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| bis(2-Chloroethyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| bis(2-Chloroisopropyl)ether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2-Chloronaphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2-Chlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 4-Chlorophenylphenylether | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Chrysene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Dibenz(a,h)anthracene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107985
Sample ID: 009 SSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 3,3'-Dichlorobenzidine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,4-Dichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Diethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,4-Dimethylphenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Dimethylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Di-n-butylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,4-Dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,4-dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,6-Dinitrotoluene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Di-n-octylphthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 1,2-Diphenylhydrazine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Fluoranthene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Fluorene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Hexachlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Hexachlorobutadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Hexachlorocyclopentadiene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Hexachloroethane | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Indeno(1,2,3-cd)pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Isophorone | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2-Methyl-4,6-dinitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Naphthalene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Nitrobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 4-Nitrophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| N-nitrosodi-n-propylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| N-nitrosodiphenylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| N-nitrosodimethylamine | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Pentachlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Phenanthrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Phenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Pyrene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| Bis(2-ethylhexyl)phthalate | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 1,2,4-Trichlorobenzene | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |
| 2,4,6-Trichlorophenol | ND | mg/l | 0.0100 | 1 | 7/20/04 | 0:57 | D. Harris | 625 | 8898 |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107985
Sample ID: 009 SSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107985
Sample ID: 009 SSSP
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 23:48 | J.Haley | 624 | 7612 |
| *METALS* | | | | | | | | | |
| Mercury | ND | mg/l | 0.0002 | 1 | 7/16/04 | 9:15 | K. Keller | 245.1 | 6156 |
| Antimony | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Arsenic | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Beryllium | ND | mg/l | 0.0040 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Cadmium | ND | mg/l | 0.0010 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Chromium | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Copper | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Lead | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Nickel | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Selenium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Silver | ND | mg/l | 0.0050 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Thallium | ND | mg/l | 0.0100 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| Zinc | ND | mg/l | 0.0500 | 1 | 7/16/04 | 11:36 | C.Johnson | 200.7 | 6045 |
| *MISCELLANEOUS CHEMISTRY* | | | | | | | | | |
| Cyanide | ND | mg/l | 0.0050 | 1 | 7/15/04 | 12:34 | K.Saiyasak | 335.3 | 5955 |

Sample Extraction Data

| Parameter | Wt/Vol Extracted | Extract Vol | Date | Time | Analyst | Method |
|---|---|---|---|---|---|---|
| 625 | 1000 ml | 1. ml | 7/16/04 | | M. Ricke | 625 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |

Sample report continued . . .

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***ANALYTICAL REPORT***

Laboratory Number: 04-A107985
Sample ID: 009 SSSP
Project: PRIORITY POLLUTANTS


| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, Toluene d8 | 103. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 105. | 81. - 126. |
| surr-Nitrobenzene-d5 | 47. | 12. - 135. |
| surr-2-Fluorobiphenyl | 54. | 14. - 132. |
| surr-Terphenyl d14 | 82. | 11. - 142. |
| surr-Phenol d5 | 17. | 5. - 79. |
| surr-2-Fluorophenol | 15. | 5. - 99. |
| surr-2,4,6-Tribromophenol | 36. | 7. - 155. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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# *ANALYTICAL REPORT*

WESTERN KY ENERGY 8407
TOM SHAW
P.O. BOX 1518
HENDERSON, KY 42419-1518

Project: PRIORITY POLLUTANTS
Project Name: WILSON KPDES
Sampler: MICHAEL GALBRAITH

Lab Number: 04-A107986
Sample ID: Trip Blank
Sample Type: Water
Site ID:

Date Collected:
Time Collected:
Date Received: 7/14/04
Time Received: 8:00
Page: 1

| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| *VOLATILE ORGANICS* | | | | | | | | | |
| Acrolein | ND | mg/l | 0.0050 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Acrylonitrile | ND | mg/l | 0.0050 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Benzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Bromoform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Bromomethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Carbon tetrachloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Chlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Chloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 2-Chloroethylvinylether | ND | mg/l | 0.0050 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Chloroform | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Chloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Dibromochloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,2-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,3-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,4-Dichlorobenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Dichlorodifluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,1-Dichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,2-Dichloroethene (total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,2-Dichloropropane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| cis-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |

Sample report continued . . .

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## *ANALYTICAL REPORT*

Laboratory Number: 04-A107986
Sample ID: Trip Blank
Project: PRIORITY POLLUTANTS


| Analyte | Result | Units | Report Limit | Dil Factor | Analysis Date | Analysis Time | Analyst | Method | Batch |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Ethylbenzene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Methylene chloride | ND | mg/l | 0.0025 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,1,2,2-Tetrachloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Tetrachloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Toluene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,1,1-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| 1,1,2-Trichloroethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Trichloroethene | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Vinyl chloride | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Xylenes (Total) | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Bromodichloromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |
| Trichlorofluoromethane | ND | mg/l | 0.0010 | 1 | 7/15/04 | 1:59 | J.Haley | 624 | 6534 |

| Surrogate | % Recovery | Target Range |
|---|---|---|
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | 73. - 127. |
| VOA Surrogate, Toluene d8 | 102. | 77. - 120. |
| VOA Surrogate, 4-Bromofluorobenzene | 107. | 83. - 133. |
| VOA Surrogate, Dibromofluoromethane | 106. | 81. - 126. |

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 1***
***Laboratory Receipt Date: 7/14/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | | | | |
| Benzene | mg/l | < 0.00100 | 0.0483 | 0.0500 | 97 | 37 - 151 | 6534 | 04-A107905 |
| Benzene | mg/l | 0.0234 | 0.0687 | 0.0500 | 91 | 37 - 151 | 7612 | 108498 |
| Benzene | mg/l | < 0.00100 | 0.0500 | 0.0500 | 100 | 37 - 151 | 7765 | 04-A107373 |
| Chlorobenzene | mg/l | < 0.00100 | 0.0460 | 0.0500 | 92 | 37 - 160 | 6534 | 04-A107905 |
| Chlorobenzene | mg/l | < 0.00100 | 0.0468 | 0.0500 | 94 | 37 - 160 | 7612 | 108498 |
| Chlorobenzene | mg/l | < 0.00100 | 0.0502 | 0.0500 | 100 | 37 - 160 | 7765 | 04-A107373 |
| 1,1-Dichloroethene | mg/l | < 0.00100 | 0.0415 | 0.0500 | 83 | 1 - 234 | 6534 | 04-A107905 |
| 1,1-Dichloroethene | mg/l | < 0.00100 | 0.0481 | 0.0500 | 96 | 1 - 234 | 7612 | 108498 |
| 1,1-Dichloroethene | mg/l | < 0.00100 | 0.0463 | 0.0500 | 93 | 1 - 234 | 7765 | 04-A107373 |
| Toluene | mg/l | < 0.00100 | 0.0469 | 0.0500 | 94 | 47 - 150 | 6534 | 04-A107905 |
| Toluene | mg/l | < 0.00100 | 0.0478 | 0.0500 | 96 | 47 - 150 | 7612 | 108498 |
| Toluene | mg/l | < 0.00100 | 0.0510 | 0.0500 | 102 | 47 - 150 | 7765 | 04-A107373 |
| Trichloroethene | mg/l | 0.00180 | 0.0491 | 0.0500 | 95 | 71 - 157 | 6534 | 04-A107905 |
| Trichloroethene | mg/l | < 0.00100 | 0.0492 | 0.0500 | 98 | 71 - 157 | 7612 | 108498 |
| Trichloroethene | mg/l | < 0.00100 | 0.0533 | 0.0500 | 107 | 71 - 157 | 7765 | 04-A107373 |
| Tetrachloroethene | mg/l | < 0.00100 | 0.0423 | 0.0500 | 85 | 64 - 148 | 6534 | 04-A107905 |
| Tetrachloroethene | mg/l | < 0.00100 | 0.0491 | 0.0500 | 98 | 64 - 148 | 7612 | 108498 |
| Tetrachloroethene | mg/l | < 0.00100 | 0.0521 | 0.0500 | 104 | 64 - 148 | 7765 | 04-A107373 |
| VOA Surrogate, 1,2-Dichloroe%hRec, d4 | | | | | 95 | 73 - 127 | 6534 | |
| VOA Surrogate, 1,2-Dichloroe%hRec, d4 | | | | | 101 | 73 - 127 | 7612 | |
| VOA Surrogate, 1,2-Dichloroe%hRec, d4 | | | | | 94 | 73 - 127 | 7765 | |
| VOA Surrogate, Toluene d8 | % Rec | | | | 105 | 77 - 120 | 6534 | |
| VOA Surrogate, Toluene d8 | % Rec | | | | 104 | 77 - 120 | 7612 | |
| VOA Surrogate, Toluene d8 | % Rec | | | | 103 | 77 - 120 | 7765 | |
| VOA Surrogate, 4-Bromofluoro%eRecne | | | | | 99 | 83 - 133 | 6534 | |
| VOA Surrogate, 4-Bromofluoro%eRecne | | | | | 99 | 83 - 133 | 7612 | |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 2***
***Laboratory Receipt Date: 7/14/04***

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for the defined analytical batch for MS/MSD analysis on an true sample matrix. Laboratory reagent water was used for QC purposes.

| Analyte | units | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---|---|---|---|---|---|---|---|---|
| VOA Surrogate, 4-Bromofluoro%eRecne | | | | | 98 | 83 - 133 | 7765 | |
| VOA Surrogate, Dibromofluoro%eRecne | | | | | 98 | 81 - 126 | 6534 | |
| VOA Surrogate, Dibromofluoro%eRecne | | | | | 102 | 81 - 126 | 7612 | |
| VOA Surrogate, Dibromofluoro%eRecne | | | | | 96 | 81 - 126 | 7765 | |
| **EXTRACTABLE PARAMETERS** | | | | | | | | |
| 1,4-Dichlorobenzene | mg/l | < 0.0100 | 0.0220 | 0.0500 | 44 | 20 - 124 | 8898 | BLANK |
| N-nitrosodi-n-propylamine | mg/l | < 0.0100 | 0.0310 | 0.0500 | 62 | 1 - 230 | 8898 | BLANK |
| 1,2,4-Trichlorobenzene | mg/l | < 0.0100 | 0.0200 | 0.0500 | 40# | 44 - 142 | 8898 | BLANK |
| 4-Chloro-3-methylphenol | mg/l | < 0.0100 | 0.0320 | 0.0500 | 64 | 22 - 147 | 8898 | BLANK |
| Acenaphthene | mg/l | < 0.0100 | 0.0300 | 0.0500 | 60 | 47 - 145 | 8898 | BLANK |
| 2,4-dinitrotoluene | mg/l | < 0.0100 | 0.0470 | 0.0500 | 94 | 39 - 139 | 8898 | BLANK |
| Pyrene | mg/l | < 0.0100 | 0.0460 | 0.0500 | 92 | 52 - 115 | 8898 | BLANK |
| 2-Chlorophenol | mg/l | < 0.0100 | 0.0240 | 0.0500 | 48 | 23 - 134 | 8898 | BLANK |
| 4-Nitrophenol | mg/l | < 0.0100 | 0.0150 | 0.0500 | 30 | 1 - 132 | 8898 | BLANK |
| Pentachlorophenol | mg/l | < 0.0100 | 0.0380 | 0.0500 | 76 | 14 - 176 | 8898 | BLANK |
| **METALS** | | | | | | | | |
| Mercury | mg/l | < 0.00020 | 0.00116 | 0.00100 | 116 | 80 - 120 | 6156 | 04-A107750 |
| Antimony | mg/l | < 0.0100 | 0.100 | 0.100 | 100 | 80 - 120 | 6045 | '108542 |
| Arsenic | mg/l | 0.0350 | 0.0870 | 0.0500 | 104 | 80 - 120 | 6045 | '108542 |
| Beryllium | mg/l | < 0.0040 | 0.0520 | 0.0500 | 104 | 80 - 120 | 6045 | '108542 |
| Cadmium | mg/l | 0.0028 | 0.0571 | 0.0500 | 109 | 80 - 120 | 6045 | '108542 |
| Chromium | mg/l | 0.0100 | 0.216 | 0.200 | 103 | 80 - 120 | 6045 | '108542 |
| Copper | mg/l | < 0.0100 | 0.267 | 0.250 | 107 | 80 - 120 | 6045 | '108542 |
| Lead | mg/l | < 0.0050 | 0.0530 | 0.0500 | 106 | 80 - 120 | 6045 | '108542 |
| Nickel | mg/l | < 0.0100 | 0.531 | 0.500 | 106 | 80 - 120 | 6045 | '108542 |
| Selenium | mg/l | 0.0230 | 0.0810 | 0.0500 | 116 | 80 - 120 | 6045 | '108542 |
| Silver | mg/l | 0.0120 | 0.0630 | 0.0500 | 102 | 80 - 120 | 6045 | '108542 |
| Thallium | mg/l | 0.0100 | 0.0590 | 0.0500 | 98 | 80 - 120 | 6045 | '108542 |
| Zinc | mg/l | < 0.0500 | 0.540 | 0.500 | 108 | 80 - 120 | 6045 | '108542 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***

***Laboratory Receipt Date: 7/14/04***

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **MISC PARAMETERS** | | | | | | | | |
| Cyanide | mg/l | < 0.0050 | 0.0980 | 0.100 | 98 | 80 - 120 | 5955 | 04-A107750 |
| Cyanide | mg/l | < 0.0050 | 0.0944 | 0.100 | 94 | 80 - 120 | 7245 | 04-A107984 |

Matrix Spike Duplicate

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|---|---|---|---|---|---|---|
| **METALS** | | | | | | |
| Mercury | mg/l | 0.00116 | 0.00117 | 0.86 | 20 | 6156 |
| Antimony | mg/l | 0.100 | 0.0990 | 1.01 | 20 | 6045 |
| Arsenic | mg/l | 0.0870 | 0.0860 | 1.16 | 20 | 6045 |
| Beryllium | mg/l | 0.0520 | 0.0510 | 1.94 | 20 | 6045 |
| Cadmium | mg/l | 0.0571 | 0.0565 | 1.06 | 20 | 6045 |
| Chromium | mg/l | 0.216 | 0.211 | 2.34 | 20 | 6045 |
| Copper | mg/l | 0.267 | 0.262 | 1.89 | 20 | 6045 |
| Lead | mg/l | 0.0530 | 0.0520 | 1.90 | 20 | 6045 |
| Nickel | mg/l | 0.531 | 0.523 | 1.52 | 20 | 6045 |
| Selenium | mg/l | 0.0810 | 0.0790 | 2.50 | 20 | 6045 |
| Silver | mg/l | 0.0630 | 0.0640 | 1.57 | 20 | 6045 |
| Thallium | mg/l | 0.0590 | 0.0610 | 3.33 | 20 | 6045 |
| Zinc | mg/l | 0.540 | 0.533 | 1.30 | 20 | 6045 |
| Cyanide | mg/l | 0.0980 | 0.0947 | 3.43 | 20 | 5955 |
| Cyanide | mg/l | 0.0944 | 0.0976 | 3.33 | 20 | 7245 |

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 4***
***Laboratory Receipt Date: 7/14/04***

| | | | | | | |
|---|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | | |
| Acrolein | mg/l | 0.250 | 0.291 | 116 | 39 - 156 | 6534 |
| Acrolein | mg/l | 0.250 | 0.236 | 94 | 39 - 156 | 6534 |
| Acrolein | mg/l | 0.250 | 0.227 | 91 | 39 - 156 | 7612 |
| Acrolein | mg/l | 0.250 | 0.229 | 92 | 39 - 156 | 7765 |
| Acrylonitrile | mg/l | 0.250 | 0.267 | 107 | 57 - 143 | 6534 |
| Acrylonitrile | mg/l | 0.250 | 0.216 | 86 | 57 - 143 | 6534 |
| Acrylonitrile | mg/l | 0.250 | 0.213 | 85 | 57 - 143 | 7612 |
| Acrylonitrile | mg/l | 0.250 | 0.216 | 86 | 57 - 143 | 7765 |
| Benzene | mg/l | 0.0500 | 0.0506 | 101 | 37 - 151 | 6534 |
| Benzene | mg/l | 0.0500 | 0.0468 | 94 | 37 - 151 | 6534 |
| Benzene | mg/l | 0.0500 | 0.0467 | 93 | 37 - 151 | 7612 |
| Benzene | mg/l | 0.0500 | 0.0489 | 98 | 37 - 151 | 7765 |
| Bromoform | mg/l | 0.0500 | 0.0641 | 128 | 45 - 169 | 6534 |
| Bromoform | mg/l | 0.0500 | 0.0540 | 108 | 45 - 169 | 6534 |
| Bromoform | mg/l | 0.0500 | 0.0536 | 107 | 45 - 169 | 7612 |
| Bromoform | mg/l | 0.0500 | 0.0549 | 110 | 45 - 169 | 7765 |
| Bromomethane | mg/l | 0.0500 | 0.0504 | 101 | 1 - 242 | 6534 |
| Bromomethane | mg/l | 0.0500 | 0.0564 | 113 | 1 - 242 | 6534 |
| Bromomethane | mg/l | 0.0500 | 0.0643 | 129 | 1 - 242 | 7612 |
| Bromomethane | mg/l | 0.0500 | 0.0664 | 133 | 1 - 242 | 7765 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0538 | 108 | 70 - 140 | 6534 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0484 | 97 | 70 - 140 | 6534 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0495 | 99 | 70 - 140 | 7612 |
| Carbon tetrachloride | mg/l | 0.0500 | 0.0516 | 103 | 70 - 140 | 7765 |
| Chlorobenzene | mg/l | 0.0500 | 0.0515 | 103 | 37 - 160 | 6534 |
| Chlorobenzene | mg/l | 0.0500 | 0.0469 | 94 | 37 - 160 | 6534 |
| Chlorobenzene | mg/l | 0.0500 | 0.0473 | 95 | 37 - 160 | 7612 |
| Chlorobenzene | mg/l | 0.0500 | 0.0476 | 95 | 37 - 160 | 7765 |
| Chloroethane | mg/l | 0.0500 | 0.0548 | 110 | 14 - 230 | 6534 |
| Chloroethane | mg/l | 0.0500 | 0.0478 | 96 | 14 - 230 | 6534 |
| Chloroethane | mg/l | 0.0500 | 0.0491 | 98 | 14 - 230 | 7612 |
| Chloroethane | mg/l | 0.0500 | 0.0514 | 103 | 14 - 230 | 7765 |
| 2-Chloroethylvinylether | mg/l | 0.250 | 0.277 | 111 | 1 - 305 | 6534 |
| 2-Chloroethylvinylether | mg/l | 0.250 | 0.239 | 96 | 1 - 305 | 6534 |
| 2-Chloroethylvinylether | mg/l | 0.250 | 0.242 | 97 | 1 - 305 | 7612 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***

***Laboratory Receipt Date: 7/14/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| 2-Chloroethylvinylether | mg/l | 0.250 | 0.219 | 88 | 1 - 305 | 7765 |
| Chloroform | mg/l | 0.0500 | 0.0522 | 104 | 51 - 138 | 6534 |
| Chloroform | mg/l | 0.0500 | 0.0458 | 92 | 51 - 138 | 6534 |
| Chloroform | mg/l | 0.0500 | 0.0461 | 92 | 51 - 138 | 7612 |
| Chloroform | mg/l | 0.0500 | 0.0479 | 96 | 51 - 138 | 7765 |
| Chloromethane | mg/l | 0.0500 | 0.0447 | 89 | 10 - 273 | 6534 |
| Chloromethane | mg/l | 0.0500 | 0.0448 | 90 | 10 - 273 | 6534 |
| Chloromethane | mg/l | 0.0500 | 0.0451 | 90 | 10 - 273 | 7612 |
| Chloromethane | mg/l | 0.0500 | 0.0495 | 99 | 10 - 273 | 7765 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0592 | 118 | 53 - 149 | 6534 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0521 | 104 | 53 - 149 | 6534 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0514 | 103 | 53 - 149 | 7612 |
| Dibromochloromethane | mg/l | 0.0500 | 0.0521 | 104 | 53 - 149 | 7765 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0524 | 105 | 18 - 190 | 6534 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0486 | 97 | 18 - 190 | 6534 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0491 | 98 | 18 - 190 | 7612 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0494 | 99 | 18 - 190 | 7765 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0501 | 100 | 59 - 156 | 6534 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0467 | 93 | 59 - 156 | 6534 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0475 | 95 | 59 - 156 | 7612 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0476 | 95 | 59 - 156 | 7765 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0484 | 97 | 18 - 190 | 6534 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0449 | 90 | 18 - 190 | 6534 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0456 | 91 | 18 - 190 | 7612 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0454 | 91 | 18 - 190 | 7765 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0414 | 83 | 50 - 161 | 6534 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0445 | 89 | 50 - 161 | 6534 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0471 | 94 | 50 - 161 | 7612 |
| Dichlorodifluoromethane | mg/l | 0.0500 | 0.0493 | 99 | 50 - 161 | 7765 |
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0522 | 104 | 59 - 155 | 6534 |
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0439 | 88 | 59 - 155 | 6534 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 6***
***Laboratory Receipt Date: 7/14/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0441 | 88 | 59 - 155 | 7612 |
| 1,1-Dichloroethane | mg/l | 0.0500 | 0.0456 | 91 | 59 - 155 | 7765 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0530 | 106 | 49 - 155 | 6534 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0467 | 93 | 49 - 155 | 6534 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0477 | 95 | 49 - 155 | 7612 |
| 1,2-Dichloroethane | mg/l | 0.0500 | 0.0497 | 99 | 49 - 155 | 7765 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0483 | 97 | 1 - 234 | 6534 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0422 | 84 | 1 - 234 | 6534 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0432 | 86 | 1 - 234 | 7612 |
| 1,1-Dichloroethene | mg/l | 0.0500 | 0.0442 | 88 | 1 - 234 | 7765 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0995 | 100 | 54 - 156 | 6534 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0894 | 89 | 54 - 156 | 6534 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0920 | 92 | 54 - 156 | 7612 |
| 1,2-Dichloroethene (total) | mg/l | 0.100 | 0.0925 | 92 | 54 - 156 | 7765 |
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0546 | 109 | 10 - 210 | 6534 |
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0485 | 97 | 10 - 210 | 6534 |
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0494 | 99 | 10 - 210 | 7612 |
| 1,2-Dichloropropane | mg/l | 0.0500 | 0.0478 | 96 | 10 - 210 | 7765 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0541 | 108 | 1 - 227 | 6534 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0495 | 99 | 1 - 227 | 6534 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0515 | 103 | 1 - 227 | 7612 |
| cis-1,3-Dichloropropene | mg/l | 0.0500 | 0.0484 | 97 | 1 - 227 | 7765 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0565 | 113 | 17 - 183 | 6534 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0521 | 104 | 17 - 183 | 6534 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0540 | 108 | 17 - 183 | 7612 |
| trans-1,3-Dichloropropene | mg/l | 0.0500 | 0.0508 | 102 | 17 - 183 | 7765 |
| Ethylbenzene | mg/l | 0.0500 | 0.0524 | 105 | 37 - 162 | 6534 |
| Ethylbenzene | mg/l | 0.0500 | 0.0483 | 97 | 37 - 162 | 6534 |
| Ethylbenzene | mg/l | 0.0500 | 0.0487 | 97 | 37 - 162 | 7612 |
| Ethylbenzene | mg/l | 0.0500 | 0.0488 | 98 | 37 - 162 | 7765 |
| Methylene chloride | mg/l | 0.0500 | 0.0479 | 96 | 1 - 221 | 6534 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 7***
***Laboratory Receipt Date: 7/14/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Methylene chloride | mg/l | 0.0500 | 0.0406 | 81 | 1 - 221 | 6534 |
| Methylene chloride | mg/l | 0.0500 | 0.0419 | 84 | 1 - 221 | 7612 |
| Methylene chloride | mg/l | 0.0500 | 0.0429 | 86 | 1 - 221 | 7765 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0516 | 103 | 46 - 157 | 6534 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0445 | 89 | 46 - 157 | 6534 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0456 | 91 | 46 - 157 | 7612 |
| 1,1,2,2-Tetrachloroethane | mg/l | 0.0500 | 0.0457 | 91 | 46 - 157 | 7765 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0486 | 97 | 64 - 148 | 6534 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0450 | 90 | 64 - 148 | 6534 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0463 | 93 | 64 - 148 | 7612 |
| Tetrachloroethene | mg/l | 0.0500 | 0.0457 | 91 | 64 - 148 | 7765 |
| Toluene | mg/l | 0.0500 | 0.0508 | 102 | 47 - 150 | 6534 |
| Toluene | mg/l | 0.0500 | 0.0466 | 93 | 47 - 150 | 6534 |
| Toluene | mg/l | 0.0500 | 0.0471 | 94 | 47 - 150 | 7612 |
| Toluene | mg/l | 0.0500 | 0.0473 | 95 | 47 - 150 | 7765 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0539 | 108 | 52 - 162 | 6534 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0471 | 94 | 52 - 162 | 6534 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0476 | 95 | 52 - 162 | 7612 |
| 1,1,1-Trichloroethane | mg/l | 0.0500 | 0.0493 | 99 | 52 - 162 | 7765 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0549 | 110 | 52 - 150 | 6534 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0488 | 98 | 52 - 150 | 6534 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0486 | 97 | 52 - 150 | 7612 |
| 1,1,2-Trichloroethane | mg/l | 0.0500 | 0.0490 | 98 | 52 - 150 | 7765 |
| Trichloroethene | mg/l | 0.0500 | 0.0531 | 106 | 71 - 157 | 6534 |
| Trichloroethene | mg/l | 0.0500 | 0.0480 | 96 | 71 - 157 | 6534 |
| Trichloroethene | mg/l | 0.0500 | 0.0478 | 96 | 71 - 157 | 7612 |
| Trichloroethene | mg/l | 0.0500 | 0.0498 | 100 | 71 - 157 | 7765 |
| Vinyl chloride | mg/l | 0.0500 | 0.0472 | 94 | 1 - 251 | 6534 |
| Vinyl chloride | mg/l | 0.0500 | 0.0442 | 88 | 1 - 251 | 6534 |
| Vinyl chloride | mg/l | 0.0500 | 0.0453 | 91 | 1 - 251 | 7612 |
| Vinyl chloride | mg/l | 0.0500 | 0.0466 | 93 | 1 - 251 | 7765 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
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***Page: 8***
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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Xylenes (Total) | mg/l | 0.150 | 0.161 | 107 | 73 - 130 | 6534 |
| Xylenes (Total) | mg/l | 0.150 | 0.148 | 99 | 73 - 130 | 6534 |
| Xylenes (Total) | mg/l | 0.150 | 0.150 | 100 | 73 - 130 | 7612 |
| Xylenes (Total) | mg/l | 0.150 | 0.151 | 101 | 73 - 130 | 7765 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0556 | 111 | 35 - 155 | 6534 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0492 | 98 | 35 - 155 | 6534 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0506 | 101 | 35 - 155 | 7612 |
| Bromodichloromethane | mg/l | 0.0500 | 0.0527 | 105 | 35 - 155 | 7765 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0432 | 86 | 17 - 181 | 6534 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0400 | 80 | 17 - 181 | 6534 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0412 | 82 | 17 - 181 | 7612 |
| Trichlorofluoromethane | mg/l | 0.0500 | 0.0428 | 86 | 17 - 181 | 7765 |
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 105 | 73 - 127 | 6534 |
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 97 | 73 - 127 | 6534 |
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 100 | 73 - 127 | 7612 |
| VOA Surrogate, 1,2-Dichloroet%aRec d4 | | | | 100 | 73 - 127 | 7765 |
| VOA Surrogate, Toluene d8 | % Rec | | | 105 | 77 - 120 | 6534 |
| VOA Surrogate, Toluene d8 | % Rec | | | 104 | 77 - 120 | 6534 |
| VOA Surrogate, Toluene d8 | % Rec | | | 104 | 77 - 120 | 7612 |
| VOA Surrogate, Toluene d8 | % Rec | | | 103 | 77 - 120 | 7765 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 99 | 83 - 133 | 6534 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 99 | 83 - 133 | 6534 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 100 | 83 - 133 | 7612 |
| VOA Surrogate, 4-Bromofluorob%nRece | | | | 100 | 83 - 133 | 7765 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 103 | 81 - 126 | 6534 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 98 | 81 - 126 | 6534 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 99 | 81 - 126 | 7612 |
| VOA Surrogate, Dibromofluorom%tRece | | | | 101 | 81 - 126 | 7765 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
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| | | | | | | |
|---|---|---|---|---|---|---|
| **EXTRACTABLE PARAMETERS** | | | | | | |
| Acenaphthene | mg/l | 0.0500 | 0.0350 | 70 | 47 - 145 | 8898 |
| Acenaphthylene | mg/l | 0.0500 | 0.0370 | 74 | 33 - 145 | 8898 |
| Anthracene | mg/l | 0.0500 | 0.0470 | 94 | 27 - 133 | 8898 |
| Benzidine | mg/l | 0.0500 | < 0.0100 | N/A | 10 - 155 | 8898 |
| Benzo(a)anthracene | mg/l | 0.0500 | 0.0400 | 80 | 33 - 143 | 8898 |
| Benzo(a)pyrene | mg/l | 0.0500 | 0.0410 | 82 | 17 - 163 | 8898 |
| Benzo(b)fluoranthene | mg/l | 0.0500 | 0.0370 | 74 | 24 - 159 | 8898 |
| Benzo(g,h,i)perylene | mg/l | 0.0500 | 0.0360 | 72 | 1 - 219 | 8898 |
| Benzo(k)fluoranthene | mg/l | 0.0500 | 0.0440 | 88 | 11 - 162 | 8898 |
| 4-Bromophenylphenylether | mg/l | 0.0500 | 0.0350 | 70 | 53 - 127 | 8898 |
| Butylbenzylphthalate | mg/l | 0.0500 | 0.0440 | 88 | 1 - 152 | 8898 |
| 4-Chloro-3-methylphenol | mg/l | 0.0500 | 0.0380 | 76 | 22 - 147 | 8898 |
| bis(2-Chloroethoxy)methane | mg/l | 0.0500 | 0.0350 | 70 | 33 - 184 | 8898 |
| bis(2-Chloroethyl)ether | mg/l | 0.0500 | 0.0330 | 66 | 12 - 158 | 8898 |
| bis(2-Chloroisopropyl)ether | mg/l | 0.0500 | 0.0370 | 74 | 36 - 166 | 8898 |
| 2-Chloronaphthalene | mg/l | 0.0500 | 0.0330 | 66 | 60 - 118 | 8898 |
| 4-Chlorophenylphenylether | mg/l | 0.0500 | 0.0400 | 80 | 25 - 158 | 8898 |
| Chrysene | mg/l | 0.0500 | 0.0400 | 80 | 17 - 168 | 8898 |
| Dibenz(a,h)anthracene | mg/l | 0.0500 | 0.0390 | 78 | 1 - 227 | 8898 |
| 1,2-Dichlorobenzene | mg/l | 0.0500 | 0.0300 | 60 | 32 - 129 | 8898 |
| 1,3-Dichlorobenzene | mg/l | 0.0500 | 0.0280 | 56 | 10 - 172 | 8898 |
| 1,4-Dichlorobenzene | mg/l | 0.0500 | 0.0270 | 54 | 20 - 124 | 8898 |
| 3,3'-Dichlorobenzidine | mg/l | 0.0500 | 0.0380 | 76 | 10 - 262 | 8898 |
| Diethylphthalate | mg/l | 0.0500 | 0.0440 | 88 | 1 - 114 | 8898 |
| Dimethylphthalate | mg/l | 0.0500 | 0.0410 | 82 | 1 - 112 | 8898 |
| 2,4-dinitrotoluene | mg/l | 0.0500 | 0.0440 | 88 | 39 - 139 | 8898 |
| 2,6-Dinitrotoluene | mg/l | 0.0500 | 0.0440 | 88 | 50 - 158 | 8898 |
| Di-n-octylphthalate | mg/l | 0.0500 | 0.0390 | 78 | 4 - 146 | 8898 |
| 1,2-Diphenylhydrazine | mg/l | 0.0500 | 0.0400 | 80 | 38 - 111 | 8898 |
| Fluoranthene | mg/l | 0.0500 | 0.0420 | 84 | 26 - 137 | 8898 |
| Fluorene | mg/l | 0.0500 | 0.0380 | 76 | 59 - 121 | 8898 |
| Hexachlorobenzene | mg/l | 0.0500 | 0.0430 | 86 | 1 - 152 | 8898 |
| Hexachlorobutadiene | mg/l | 0.0500 | 0.0270 | 54 | 24 - 116 | 8898 |
| Hexachlorocyclopentadiene | mg/l | 0.0500 | 0.0270 | 54 | 11 - 84 | 8898 |
| Hexachloroethane | mg/l | 0.0500 | 0.0260 | 52 | 40 - 113 | 8898 |

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Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)pyrene | mg/l | 0.0500 | 0.0370 | 74 | 1 - 171 | 8898 |
| Isophorone | mg/l | 0.0500 | 0.0360 | 72 | 21 - 196 | 8898 |
| Naphthalene | mg/l | 0.0500 | 0.0270 | 54 | 21 - 133 | 8898 |
| Nitrobenzene | mg/l | 0.0500 | 0.0300 | 60 | 35 - 180 | 8898 |
| N-nitrosodi-n-propylamine | mg/l | 0.0500 | 0.0380 | 76 | 1 - 230 | 8898 |
| N-nitrosodiphenylamine | mg/l | 0.0500 | 0.0410 | 82 | 53 - 129 | 8898 |
| N-nitrosodimethylamine | mg/l | 0.0500 | 0.0240 | 48 | 20 - 92 | 8898 |
| Phenanthrene | mg/l | 0.0500 | 0.0420 | 84 | 54 - 120 | 8898 |
| Pyrene | mg/l | 0.0500 | 0.0390 | 78 | 52 - 115 | 8898 |
| Bis(2-ethylhexyl)phthalate | mg/l | 0.0500 | 0.0430 | 86 | 8 - 158 | 8898 |
| 1,2,4-Trichlorobenzene | mg/l | 0.0500 | 0.0260 | 52 | 44 - 142 | 8898 |
| 2,4,6-Trichlorophenol | mg/l | 0.0500 | 0.0200 | 40 | 37 - 144 | 8898 |
| 2-Chlorophenol | mg/l | 0.0500 | 0.0280 | 56 | 23 - 134 | 8898 |
| 2,4-Dichlorophenol | mg/l | 0.0500 | 0.0270 | 54 | 39 - 135 | 8898 |
| 2,4-Dimethylphenol | mg/l | 0.0500 | 0.0210 | 42 | 32 - 119 | 8898 |
| 2,4-Dinitrophenol | mg/l | 0.0500 | 0.0110 | 22 | 1 - 191 | 8898 |
| 2-Methyl-4,6-dinitrophenol | mg/l | 0.0500 | 0.0150 | 30 | 1 - 181 | 8898 |
| 2-Nitrophenol | mg/l | 0.0500 | 0.0230 | 46 | 29 - 182 | 8898 |
| 4-Nitrophenol | mg/l | 0.0500 | 0.0110 | 22 | 1 - 132 | 8898 |
| Pentachlorophenol | mg/l | 0.0500 | 0.0220 | 44 | 14 - 176 | 8898 |
| Phenol | mg/l | 0.0500 | 0.0200 | 40 | 5 - 112 | 8898 |
| **METALS** | | | | | | |
| Mercury | mg/l | 0.00100 | 0.00111 | 111 | 85 - 115 | 6156 |
| Antimony | mg/l | 0.100 | 0.0970 | 97 | 85 - 115 | 6045 |
| Arsenic | mg/l | 0.0500 | 0.0480 | 96 | 85 - 115 | 6045 |
| Beryllium | mg/l | 0.0500 | 0.0510 | 102 | 85 - 115 | 6045 |
| Cadmium | mg/l | 0.0500 | 0.0531 | 106 | 85 - 115 | 6045 |
| Chromium | mg/l | 0.200 | 0.204 | 102 | 85 - 115 | 6045 |
| Copper | mg/l | 0.250 | 0.251 | 100 | 85 - 115 | 6045 |
| Lead | mg/l | 0.0500 | 0.0500 | 100 | 85 - 115 | 6045 |
| Nickel | mg/l | 0.500 | 0.515 | 103 | 85 - 115 | 6045 |

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***PROJECT QUALITY CONTROL DATA***
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***Project Name: WILSON KPDES***

***Laboratory Receipt Date: 7/14/04***

Laboratory Control Data

| Analyte | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---|---|---|---|---|---|---|
| Selenium | mg/l | 0.0500 | 0.0540 | 108 | 85 - 115 | 6045 |
| Silver | mg/l | 0.0500 | 0.0510 | 102 | 85 - 115 | 6045 |
| Thallium | mg/l | 0.0500 | 0.0500 | 100 | 85 - 115 | 6045 |
| Zinc | mg/l | 0.500 | 0.515 | 103 | 85 - 115 | 6045 |
| **MISC PARAMETERS** | | | | | | |
| Cyanide | mg/l | 0.100 | 0.0974 | 97 | 90 - 110 | 5955 |
| Cyanide | mg/l | 0.100 | 0.0953 | 95 | 90 - 110 | 7245 |

Duplicates

| Analyte | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch | Sample Dup'd |
|---|---|---|---|---|---|---|---|
| Cyanide | mg/l | < 0.0050 | < 0.0050 | N/A | 15. | 5955 | 04-A108142 |
| Cyanide | mg/l | < 0.0050 | < 0.0050 | N/A | 15. | 7245 | 04-A108859 |

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| **VOA PARAMETERS** | | | | | |
| Acrolein | < 0.00460 | mg/l | 6534 | 7/14/04 | 12:51 |
| Acrolein | < 0.00460 | mg/l | 6534 | 7/14/04 | 23:44 |
| Acrolein | < 0.00460 | mg/l | 7612 | 7/15/04 | 20:12 |
| Acrolein | < 0.00460 | mg/l | 7765 | 7/16/04 | 7:02 |
| Acrylonitrile | < 0.00130 | mg/l | 6534 | 7/14/04 | 12:51 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
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Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Acrylonitrile | < 0.00130 | mg/l | 6534 | 7/14/04 | 23:44 |
| Acrylonitrile | < 0.00130 | mg/l | 7612 | 7/15/04 | 20:12 |
| Acrylonitrile | < 0.00130 | mg/l | 7765 | 7/16/04 | 7:02 |
| Benzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Benzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Benzene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Benzene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Bromoform | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Bromoform | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Bromoform | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Bromoform | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Bromomethane | < 0.00060 | mg/l | 6534 | 7/14/04 | 12:51 |
| Bromomethane | < 0.00060 | mg/l | 6534 | 7/14/04 | 23:44 |
| Bromomethane | < 0.00060 | mg/l | 7612 | 7/15/04 | 20:12 |
| Bromomethane | < 0.00060 | mg/l | 7765 | 7/16/04 | 7:02 |
| Carbon tetrachloride | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Carbon tetrachloride | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Carbon tetrachloride | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Carbon tetrachloride | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Chlorobenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Chlorobenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Chlorobenzene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Chlorobenzene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Chloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Chloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Chloroethane | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Chloroethane | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| 2-Chloroethylvinylether | < 0.00050 | mg/l | 6534 | 7/14/04 | 12:51 |
| 2-Chloroethylvinylether | < 0.00050 | mg/l | 6534 | 7/14/04 | 23:44 |
| 2-Chloroethylvinylether | < 0.00050 | mg/l | 7612 | 7/15/04 | 20:12 |
| 2-Chloroethylvinylether | < 0.00050 | mg/l | 7765 | 7/16/04 | 7:02 |

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Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Chloroform | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| Chloroform | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| Chloroform | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| Chloroform | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| Chloromethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Chloromethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Chloromethane | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Chloromethane | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Dibromochloromethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| Dibromochloromethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| Dibromochloromethane | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| Dibromochloromethane | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,2-Dichlorobenzene | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,3-Dichlorobenzene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,4-Dichlorobenzene | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 6534 | 7/14/04 | 12:51 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 6534 | 7/14/04 | 23:44 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 7612 | 7/15/04 | 20:12 |
| Dichlorodifluoromethane | < 0.00030 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,1-Dichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,1-Dichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,1-Dichloroethane | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 14***
***Laboratory Receipt Date: 7/14/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| 1,1-Dichloroethane | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,2-Dichloroethane | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,1-Dichloroethene | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,1-Dichloroethene | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,1-Dichloroethene | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,1-Dichloroethene | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,2-Dichloroethene (total) | < 0.0002 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,2-Dichloropropane | < 0.0002 | mg/l | 7765 | 7/16/04 | 7:02 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| cis-1,3-Dichloropropene | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 6534 | 7/14/04 | 12:51 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 6534 | 7/14/04 | 23:44 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 7612 | 7/15/04 | 20:12 |
| trans-1,3-Dichloropropene | < 0.00040 | mg/l | 7765 | 7/16/04 | 7:02 |
| Ethylbenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Ethylbenzene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Ethylbenzene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Ethylbenzene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Methylene chloride | 0.00130 | mg/l | 6534 | 7/14/04 | 12:51 |
| Methylene chloride | 0.00100 | mg/l | 6534 | 7/14/04 | 23:44 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 15***
***Laboratory Receipt Date: 7/14/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Methylene chloride | 0.00100 | mg/l | 7612 | 7/15/04 | 20:12 |
| Methylene chloride | 0.00080 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,1,2,2-Tetrachloroethane | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Tetrachloroethene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Tetrachloroethene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Tetrachloroethene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Tetrachloroethene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Toluene | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Toluene | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Toluene | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Toluene | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,1,1-Trichloroethane | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| 1,1,2-Trichloroethane | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| Trichloroethene | < 0.00030 | mg/l | 6534 | 7/14/04 | 12:51 |
| Trichloroethene | < 0.00030 | mg/l | 6534 | 7/14/04 | 23:44 |
| Trichloroethene | < 0.00030 | mg/l | 7612 | 7/15/04 | 20:12 |
| Trichloroethene | < 0.00030 | mg/l | 7765 | 7/16/04 | 7:02 |
| Vinyl chloride | < 0.00020 | mg/l | 6534 | 7/14/04 | 12:51 |
| Vinyl chloride | < 0.00020 | mg/l | 6534 | 7/14/04 | 23:44 |
| Vinyl chloride | < 0.00020 | mg/l | 7612 | 7/15/04 | 20:12 |
| Vinyl chloride | < 0.00020 | mg/l | 7765 | 7/16/04 | 7:02 |
| Xylenes (Total) | < 0.00040 | mg/l | 6534 | 7/14/04 | 12:51 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 16***
***Laboratory Receipt Date: 7/14/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Xylenes (Total) | < 0.00040 | mg/l | 6534 | 7/14/04 | 23:44 |
| Xylenes (Total) | < 0.00040 | mg/l | 7612 | 7/15/04 | 20:12 |
| Xylenes (Total) | < 0.00040 | mg/l | 7765 | 7/16/04 | 7:02 |
| Bromodichloromethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 12:51 |
| Bromodichloromethane | < 0.00010 | mg/l | 6534 | 7/14/04 | 23:44 |
| Bromodichloromethane | < 0.00010 | mg/l | 7612 | 7/15/04 | 20:12 |
| Bromodichloromethane | < 0.00010 | mg/l | 7765 | 7/16/04 | 7:02 |
| Trichlorofluoromethane | < 0.00030 | mg/l | 6534 | 7/14/04 | 12:51 |
| Trichlorofluoromethane | < 0.00030 | mg/l | 6534 | 7/14/04 | 23:44 |
| Trichlorofluoromethane | < 0.00030 | mg/l | 7612 | 7/15/04 | 20:12 |
| Trichlorofluoromethane | < 0.00030 | mg/l | 7765 | 7/16/04 | 7:02 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 110. | % Rec | 6534 | 7/14/04 | 12:51 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 108. | % Rec | 6534 | 7/14/04 | 23:44 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 105. | % Rec | 7612 | 7/15/04 | 20:12 |
| VOA Surrogate, 1,2-Dichloroethane, d4 | 107. | % Rec | 7765 | 7/16/04 | 7:02 |
| VOA Surrogate, Toluene d8 | 103. | % Rec | 6534 | 7/14/04 | 12:51 |
| VOA Surrogate, Toluene d8 | 102. | % Rec | 6534 | 7/14/04 | 23:44 |
| VOA Surrogate, Toluene d8 | 101. | % Rec | 7612 | 7/15/04 | 20:12 |
| VOA Surrogate, Toluene d8 | 99. | % Rec | 7765 | 7/16/04 | 7:02 |
| VOA Surrogate, 4-Bromofluorobenzene | 111. | % Rec | 6534 | 7/14/04 | 12:51 |
| VOA Surrogate, 4-Bromofluorobenzene | 108. | % Rec | 6534 | 7/14/04 | 23:44 |
| VOA Surrogate, 4-Bromofluorobenzene | 106. | % Rec | 7612 | 7/15/04 | 20:12 |
| VOA Surrogate, 4-Bromofluorobenzene | 108. | % Rec | 7765 | 7/16/04 | 7:02 |
| VOA Surrogate, Dibromofluoromethane | 111. | % Rec | 6534 | 7/14/04 | 12:51 |
| VOA Surrogate, Dibromofluoromethane | 108. | % Rec | 6534 | 7/14/04 | 23:44 |
| VOA Surrogate, Dibromofluoromethane | 104. | % Rec | 7612 | 7/15/04 | 20:12 |
| VOA Surrogate, Dibromofluoromethane | 106. | % Rec | 7765 | 7/16/04 | 7:02 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***

***Laboratory Receipt Date: 7/14/04***

| **EXTRACTABLE PARAMETERS** | | | | | |
|---|---|---|---|---|---|
| Acenaphthene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Acenaphthylene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Anthracene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzidine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzo(a)anthracene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzo(a)pyrene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzo(b)fluoranthene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzo(g,h,i)perylene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Benzo(k)fluoranthene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 4-Bromophenylphenylether | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Butylbenzylphthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 4-Chloro-3-methylphenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| bis(2-Chloroethoxy)methane | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| bis(2-Chloroethyl)ether | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| bis(2-Chloroisopropyl)ether | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2-Chloronaphthalene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2-Chlorophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 4-Chlorophenylphenylether | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Chrysene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Dibenz(a,h)anthracene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 1,2-Dichlorobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 1,3-Dichlorobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 1,4-Dichlorobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 3,3'-Dichlorobenzidine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,4-Dichlorophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Diethylphthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,4-Dimethylphenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Dimethylphthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Di-n-butylphthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,4-Dinitrophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,4-dinitrotoluene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,6-Dinitrotoluene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Di-n-octylphthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 1,2-Diphenylhydrazine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Fluoranthene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 18***
***Laboratory Receipt Date: 7/14/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Fluorene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Hexachlorobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Hexachlorobutadiene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Hexachlorocyclopentadiene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Hexachloroethane | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Indeno(1,2,3-cd)pyrene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Isophorone | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2-Methyl-4,6-dinitrophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Naphthalene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Nitrobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2-Nitrophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 4-Nitrophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| N-nitrosodi-n-propylamine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| N-nitrosodiphenylamine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| N-nitrosodimethylamine | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Pentachlorophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Phenanthrene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Phenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Pyrene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| Bis(2-ethylhexyl)phthalate | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 1,2,4-Trichlorobenzene | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| 2,4,6-Trichlorophenol | < 0.0100 | mg/l | 8898 | 7/19/04 | 18:10 |
| **METALS** | | | | | |
| Mercury | < 0.00015 | mg/l | 6156 | 7/16/04 | 9:15 |
| Antimony | < 0.0042 | mg/l | 6045 | 7/16/04 | 11:36 |
| Arsenic | < 0.0042 | mg/l | 6045 | 7/16/04 | 11:36 |
| Beryllium | < 0.0005 | mg/l | 6045 | 7/16/04 | 11:36 |
| Cadmium | < 0.0005 | mg/l | 6045 | 7/16/04 | 11:36 |
| Chromium | < 0.0013 | mg/l | 6045 | 7/16/04 | 11:36 |
| Copper | < 0.0016 | mg/l | 6045 | 7/16/04 | 11:36 |
| Lead | < 0.0029 | mg/l | 6045 | 7/16/04 | 11:36 |

Project QC continued . . .

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***PROJECT QUALITY CONTROL DATA***
***Project Number: PRIORITY POLLUTANTS***
***Project Name: WILSON KPDES***
***Page: 19***
***Laboratory Receipt Date: 7/14/04***

Blank Data

| Analyte | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|---|---|---|---|---|---|
| Nickel | < 0.0032 | mg/l | 6045 | 7/16/04 | 11:36 |
| Selenium | < 0.0036 | mg/l | 6045 | 7/16/04 | 11:36 |
| Silver | < 0.0007 | mg/l | 6045 | 7/16/04 | 11:36 |
| Thallium | < 0.0019 | mg/l | 6045 | 7/16/04 | 11:36 |
| Zinc | < 0.0031 | mg/l | 6045 | 7/16/04 | 11:36 |
| **MISC PARAMETERS** | | | | | |
| Cyanide | < 0.0050 | mg/l | 5955 | 7/15/04 | 12:34 |
| Cyanide | < 0.0050 | mg/l | 7245 | 7/16/04 | 14:33 |

End of Report for Project 382226

[Code of Federal Regulations]
[Title 40, Volume 26]
[Revised as of July 1, 2003]
From the U.S. Government Printing Office via GPO Access
[CITE: 40CFR423]

[Page 653-662]

TITLE 40-PROTECTION OF ENVIRONMENT

CHAPTER I-ENVIRONMENTAL PROTECTION AGENCY (CONTINUED)

PART 423-STEAM ELECTRIC POWER GENERATING POINT SOURCE CATEGORY--Table of Contents



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Authority: Secs. 301; 304(b), (c), (e), and (g); 306(b) and (c); 307(b) and (c); and 501, Clean Water Act (Federal Water Pollution Control Act Amendments of 1972, as amended by Clean Water Act of 1977) (the ``Act''; 33 U.S.C. 1311; 1314(b), (c), (e), and (g); 1316(b) and (c); 1317(b) and (c); and 1361; 86 Stat. 816, Pub. L. 92-500; 91 Stat. 1567, Pub. L. 95-217), unless otherwise noted.

Source: 47 FR 52304, Nov. 19, 1982, unless otherwise noted.

## Sec.423.10 Applicability.

The provisions of this part are applicable to discharges resulting from the operation of a generating unit by an establishment primarily engaged in the generation of electricity for distribution and sale which results primarily from a process utilizing fossil-type fuel (coal, oil, or gas) or nuclear fuel in conjunction with a thermal cycle employing the steam water system as the thermodynamic medium.

## Sec.423.11 Specialized definitions.

In addition to the definitions set forth in 40 CFR part 401, the following definitions apply to this part:

(a) The term total residual chlorine (or total residual oxidants for intake water with bromides) means the value obtained using the

amperometric method for total residual chlorine described in 40 CFR part 136.

(b) The term low volume waste sources means, taken collectively as if from one source, wastewater from all sources except those for which specific limitations are otherwise established in this part. Low volume wastes sources include, but are not limited to: wastewaters from wet scrubber air pollution control systems, ion exchange water treatment system, water treatment evaporator blowdown, laboratory and sampling streams, boiler blowdown, floor drains, cooling tower basin cleaning wastes, and recirculating house service water systems. Sanitary and air conditioning wastes are not included.

(c) The term chemical metal cleaning waste means any wastewater resulting from the cleaning of any metal process equipment with chemical compounds, including, but not limited to, boiler tube cleaning.

(d) The term metal cleaning waste means any wastewater resulting from cleaning [with or without chemical cleaning compounds] any metal process equipment including, but not limited to, boiler tube cleaning, boiler fireside cleaning, and air preheater cleaning.

(e) The term fly ash means the ash that is carried out of the furnace by the gas stream and collected by mechanical precipitators, electrostatic precipitators, and/or fabric filters. Economizer ash is included when it is collected with fly ash.

(f) The term bottom ash means the ash that drops out of the furnace gas stream in the furnace and in the economizer sections. Economizer ash is included when it is collected with bottom ash.

(g) The term once through cooling water means water passed through the main cooling condensers in one or two passes for the purpose of removing waste heat.

(h) The term recirculated cooling water means water which is passed through the main condensers for the purpose of removing waste heat, passed through a cooling device for the purpose of removing such heat from the water and then passed again, except for blowdown, through the main condenser.

(i) The term 10 year, 24/hour rainfall event means a rainfall event with a probable recurrence interval of once in ten years as defined by the National Weather Service in Technical Paper No. 40. Rainfall Frequency Atlas of the United States, May 1961 or equivalent regional rainfall probability information developed therefrom.

(j) The term blowdown means the minimum discharge of recirculating water for the purpose of discharging materials contained in the water, the further buildup of which would cause concentration in amounts exceeding

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limits established by best engineering practices.

(k) The term average concentration as it relates to chlorine discharge means the average of analyses made over a single period of chlorine release which does not exceed two hours.

(l) The term free available chlorine shall mean the value obtained using the amperometric titration method for free available chlorine described in Standard Methods for the Examination of Water and Wastewater, page 112 (13th edition).

(m) The term coal pile runoff means the rainfall runoff from or through any coal storage pile.

Sec.423.12 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

(a) In establishing the limitations set forth in this section, EPA took into account all information it was able to collect, develop and solicit with respect to factors (such as age and size of plant, utilization of facilities, raw materials, manufacturing processes, non-water quality environmental impacts, control and treatment technology available, energy requirements and costs) which can affect the industry subcategorization and effluent levels established. It is, however, possible that data which would affect these limitations have not been available and, as a result, these limitations should be adjusted for certain plants in this industry. An individual discharger or other interested person may submit evidence to the Regional Administrator (or to the State, if the State has the authority to issue NPDES permits) that factors relating to the equipment or facilities involved, the process applied, or other such factors related to such discharger are fundamentally different from the factors considered in the establishment of the guidelines. On the basis of such evidence or other available information, the Regional Administrator (or the State) will make a written finding that such factors are or are not fundamentally different for that facility compared to those specified in the Development Document. If such fundamentally different factors are found to exist, the Regional Administrator or the State shall establish for the discharger effluent limitations in the NPDES Permit either more or less stringent than the limitations established herein, to the extent dictated by such fundamentally different factors. Such limitations must be approved by the Administrator of the Environmental Protection Agency. The Administrator may approve or disapprove such limitations, specify other limitations, or initiate proceedings to revise these regulations. The phrase ``other such factors'' appearing above may include significant cost differentials. In no event may a discharger's impact on receiving water quality be considered as a factor under this paragraph.

(b) Any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction by the application of the best practicable control technology currently available (BPT):

(1) The pH of all discharges, except once through cooling water, shall be within the range of 6.0-9.0.

(2) There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

(3) The quantity of **pollutants** discharged from low volume waste sources shall not exceed the quantity determined by multiplying the flow of low volume waste sources times the concentration lised in the following table:

| Pollutant or pollutant property | BPT effluent limitations | |
|---|---|---|
| | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |

(4) The quantity of **pollutants** discharged in fly ash and bottom ash transport water shall not exceed the quantity determined by multiplying the flow of fly ash and bottom ash transport water times the concentration listed in the following table:

[[Page 656]]

| Pollutant or pollutant property | BPT effluent limitations | |
|---|---|---|
| | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |

(5) The quantity of **pollutants** discharged in metal cleaning wastes shall not exceed the quantity determined by multiplying the flow of metal cleaning wastes times the concentration listed in the following table:

| Pollutant or pollutant property | BPT effluent limitations | |
|---|---|---|
| | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |
| Copper, total | 1.0 | 1.0 |
| Iron, total | 1.0 | 1.0 |

(6) The quantity of **pollutants** discharged in once through cooling water shall not exceed the quantity determined by multiplying the flow of once through cooling water sources times the concentation listed in the following table:

| Pollutant or pollutant property | BPT effluent limitations | |
|---|---|---|
| | Maximum concentration (mg/l) | Average concentration (mg/l) |

| | | |
|---|---|---|
| Free available chlorine..... | 0.5 | 0.2 |

(7) The quantity of **pollutants** discharged in cooling tower blowdown shall not exceed the quantity determined by multiplying the flow of cooling tower blowdown sources times the concentration listed in the following table:

| Pollutant or pollutant property | BPT effluent limitations | |
|---|---|---|
| | Maximum concentration (mg/l) | Average concentration (mg/l) |
| Free available chlorine..... | 0.5 | 0.2 |

(8) Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in a particular location cannot operate at or below this level or chlorination.

(9) Subject to the provisions of paragraph (b)(10) of this section, the following effluent limitations shall apply to the point source discharges of coal pile runoff:

| Pollutant or pollutant property | BPT effluent limitations |
|---|---|
| | Maximum concentration for any time (mg/l) |
| TSS..... | 50 |

(10) Any untreated overflow from facilities designed, constructed, and operated to treat the volume of coal pile runoff which is associated with a 10 year, 24 hour rainfall event shall not be subject to the limitations in paragraph (b)(9) of this section.

(11) At the permitting authority's discretion, the quantity of pollutant allowed to be discharged may be expressed as a concentration limitation instead of the mass based limitations specified in paragraphs (b)(3) through (7) of this section. Concentration limitations shall be those concentrations specified in this section.

(12) In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled in paragraphs (b)(1) through (11) of this section attributable to each controlled waste source shall not exceed the specified limitations for that waste source.

(The information collection requirements contained in paragraph (a) were approved by the Office of Management and Budget under control number 2000-0194)

[47 FR 52304, Nov. 19, 1982, as amended at 48 FR 31404, July 8, 1983]

Sec.423.13 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point

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source subject to this part must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).

(a) There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

(b)(1) For any plant with a total rated electric generating capacity of 25 or more megawatts, the quantity of **pollutants** discharged in once through cooling water from each discharge point shall not exceed the quantity determined by multiplying the flow of once through cooling water from each discharge point times the concentration listed in the following table:

| Pollutant or pollutant property | BAT Effluent Limitations |
|---|---|
| | Maximum concentration (mg/l) |
| Total residual chlorine..... | 0.20 |

(2) Total residual chlorine may not be discharged from any single generating unit for more than two hours per day unless the discharger demonstrates to the permitting authority that discharge for more than two hours is required for macroinvertebrate control. Simultaneous multi-unit chlorination is permitted.

(c)(1) For any plant with a total rated generating capacity of less than 25 megawatts, the quantity of **pollutants** discharged in once through cooling water shall not exceed the quantity determined by multiplying the flow of once through cooling water sources times the concentration listed in the following table:

| Pollutant or pollutant property | BAT effluent limitations | |
|---|---|---|
| | Maximum concentration (mg/l) | Average concentration (mg/l) |
| Free available chlorine..... | 0.5 | 0.2 |

(2) Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in a particular location

cannot operate at or below this level of chlorination.

(d)(1) The quantity of **pollutants** discharged in cooling tower blowdown shall not exceed the quantity determined by multiplying the flow of cooling tower blowdown times the concentration listed below:

| Pollutant or pollutant property | BAT effluent limitations: Maximum concentration (mg/l) | BAT effluent limitations: Average concentration (mg/l) |
|---|---|---|
| Free available chlorine..... | 0.5 | 0.2 |

| Pollutant or pollutant property | Maximum for any 1 day - (mg/l) | Average of daily values for 30 consecutive days shall not exceed =(mg/l) |
|---|---|---|
| The 126 **priority pollutants** (Appendix A) contained in chemicals added for cooling tower maintenance, except: | (\1\) | (\1\) |
| Chromium, total..... | 0.2 | 0.2 |
| Zinc, total..... | 1.0 | 1.0 |

\1\ No detectable amount.

(2) Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in a particular location cannot operate at or below this level of chlorination.

(3) At the permitting authority's discretion, instead of the monitoring specified in 40 CFR 122.11(b) compliance with the limitations for the 126 **priority pollutants** in paragraph (d)(1) of this section may be determined by engineering calculations which demonstrate that the regulated **pollutants** are not detectable in the final discharge by the analytical methods in 40 CFR part 136.

(e) The quantity of **pollutants** discharged in chemical metal cleaning wastes shall not exceed the quantity determined by multiplying the flow of chemical metal cleaning wastes times

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the concentration listed in the following table:

| | BAT effluent limitations: Average of daily |
|---|---|

| Pollutant or pollutant property | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
|---|---|---|
| Copper, total | 1.0 | 1.0 |
| Iron, total | 1.0 | 1.0 |

(f) [Reserved - Nonchemical Metal Cleaning Wastes].

(g) At the permitting authority's discretion, the quantity of pollutant allowed to be discharged may be expressed as a concentration limitation instead of the mass based limitations specified in paragraphs (b) through (e) of this section. Concentration limitations shall be those concentrations specified in this section.

(h) In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled in paragraphs (a) through (g) of this section attributable to each controlled waste source shall not exceed the specified limitation for that waste source.

(The information collection requirements contained in paragraphs (c)(2) and (d)(2) were approved by the Office of Management and Budget under control number 2040-0040. The information collection requirements contained in paragraph (d)(3) were approved under control number 2040-0033.)

[47 FR 52304, Nov. 19, 1982, as amended at 48 FR 31404, July 8, 1983]

Sec.423.14 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best conventional pollutant control technology (BCT). [Reserved]

Sec.423.15 New source performance standards (NSPS).

Any new source subject to this subpart must achieve the following new source performance standards:

(a) The pH of all discharges, except once through cooling water, shall be within the range of 6.0-9.0.

(b) There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

(c) The quantity of **pollutants** discharged from low volume waste sources shall not exceed the quantity determined by multiplying the flow of low volume waste sources times the concentration listed in the following table:

| Pollutant or pollutant property | NSPS effluent limitations: Maximum for any 1 day (mg/l) | NSPS effluent limitations: Average of daily values for 30 consecutive days shall |
|---|---|---|

| | | not exceed (mg/l) |
|---|---|---|
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |

(d) The quantity of **pollutants** discharged in chemical metal cleaning wastes shall not exceed the quantity determined by multiplying the flow of chemical metal cleaning wastes times the concentration listed in the following table:

| Pollutant or pollutant property | NSPS effluent limitations | |
|---|---|---|
| | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |
| Copper, total | 1.0 | 1.0 |
| Iron, total | 1.0 | 1.0 |

(e) [Reserved - Nonchemical Metal Cleaning Wastes].

(f) The quantity of **pollutants** discharged in bottom ash transport water shall not exceed the quantity determined by multiplying the flow of the bottom ash transport water times the concentration listed in the following table:

| Pollutant or pollutant property | NSPS effluent limitations | |
|---|---|---|
| | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
| TSS | 100.0 | 30.0 |
| Oil and grease | 20.0 | 15.0 |

(g) There shall be no discharge of wastewater **pollutants** from fly ash transport water.

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(h)(1) For any plant with a total rated electric generating capacity

of 25 or more megawatts, the quantity of **pollutants** discharged in once through cooling water from each discharge point shall not exceed the quantity determined by multiplying the flow of once through cooling water from each discharge point times the concentration listed in the following table:

| Pollutant or pollutant property | NSPS effluent limitations |
|---|---|
| | Maximum concentration (mg/l) |
| Total residual chlorine..... | 0.20 |

(2) Total residual chlorine may not be discharged from any single generating unit for more than two hours per day unless the discharger demonstrates to the permitting authority that discharge for more than two hours is required for macroinvertebrate control. Simultaneous multi-unit chlorination is permitted.

(i)(1) For any plant with a total rated generating capacity of less than 25 megawatts, the quantity of **pollutants** discharged in once through cooling water shall not exceed the quantity determined by multiplying the flow of once through cooling water sources times the concentration listed in the following table:

| Pollutant of pollutant property | NSPS effluent limitations | |
|---|---|---|
| | Maximum concentration (mg/l) | Average concentration (mg/l) |
| Free available chlorine..... | 0.5 | 0.2 |

(2) Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in a particular location cannot operate at or below this level of chlorination.

(j)(1) The quantity of **pollutants** discharged in cooling tower blowdown shall not exceed the quantity determined by multiplying the flow of cooling tower blowdown times the concentration listed below:

| Pollutant or pollutant property | NSPS effluent limitations | |
|---|---|---|
| | Maximum concentration (mg/l) | Average concentration (mg/l) |
| Free available chlorine..... | 0.5 | 0.2 |

| Pollutant or pollutant property | Maximum for any 1 day (mg/l) | Average of daily values for 30 consecutive days shall not exceed (mg/l) |
|---|---|---|
| The 126 **priority pollutants** (Appendix A) contained in chemicals added for cooling tower maintenance, except: | (\1\) | (\1\) |
| Chromium, total | 0.2 | 0.2 |
| Zinc, total | 1.0 | 1.0 |

\1\ No detectable amount.

(2) Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Regional Administrator or State, if the State has NPDES permit issuing authority, that the units in a particular location cannot operate at or below this level of chlorination.

(3) At the permitting authority's discretion, instead of the monitoring in 40 CFR 122.11(b), compliance with the limitations for the 126 **priority pollutants** in paragraph (j)(1) of this section may be determined by engineering calculations which demonstrate that the regulated **pollutants** are not detectable in the final discharge by the analytical methods in 40 CFR part 136.

(k) Subject to the provisions of Sec.423.15(l), the quantity or quality of **pollutants** or pollutant parameters discharged in coal pile runoff shall not exceed the limitations specified below:

| Pollutant or pollutant property | NSPS effluent limitations for any time |
|---|---|
| TSS | Not to exceed 50 mg/l. |

(l) Any untreated overflow from facilities designed, constructed, and operated to treat the coal pile runoff which results from a 10 year, 24 hour

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rainfall event shall not be subject to the limitations in Sec. 423.15(k).

(m) At the permitting authority's discretion, the quantity of pollutant allowed to be discharged may be expressed as a concentration limitation instead of the mass based limitation specified in paragraphs (c) through (j) of this section. Concentration limits shall be based on the concentrations specified in this section.

(n) In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled in paragraphs (a) through (m) of this section attributable to each controlled waste source shall not exceed the specified limitation for that waste source.

(The information collection requirements contained in paragraphs (h)(2), (i)(2), and (j)(2) were approved by the Office of Management and Budget under control number 2040-0040. The information collection requirements contained in paragraph (j)(3) were approved under control number 2040-0033.)

[47 FR 52304, Nov. 19, 1982, as amended at 48 FR 31404, July 8, 1983]

Sec.423.16 Pretreatment standards for existing sources (PSES).

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject to this subpart which introduces **pollutants** into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for existing sources (PSES) by July 1, 1984:

(a) There shall be no discharge of polychlorinated biphenol compounds such as those used for transformer fluid.

(b) The **pollutants** discharged in chemical metal cleaning wastes shall not exceed the concentration listed in the following table:

| Pollutant or pollutant property | PSES pretreatment standards |
|---|---|
| | Maximum for 1 day (mg/l) |
| Copper, total | 1.0 |

(c) [Reserved - Nonchemical Metal Cleaning Wastes].

(d)(1) The **pollutants** discharged in cooling tower blowdown shall not exceed the concentration listed in the following table:

| Pollutant or pollutant property | PSES pretreatment standards |
|---|---|
| | Maximum for any time (mg/l) |
| The 126 **priority pollutants** (Appendix A) contained in chemicals added for cooling tower maintenance, except: | (\1\) |
| Chromium, total | 0.2 |
| Zinc, total | 1.0 |

\1\ No detectable amount.

(2) At the permitting authority's discretion, instead of the monitoring in 40 CFR 122.11(b), compliance with the limitations for the 126 **priority pollutants** in paragraph (d)(1) of this section may be determined by engineering calculations which demonstrate that the regulated **pollutants** are not detectable in the final discharge by the analytical methods in 40 CFR part 136.

Sec.423.17 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any new source subject to this subpart part which introduces **pollutants** into a publicly owned treatment works must comply with 40 CFR part 403 and the following pretreatment standards for new sources (PSNS).

(a) There shall be no discharge of polychlorinated biphenyl compounds such as those used for transformer fluid.

(b) The **pollutants** discharged in chemical metal cleaning wastes shall not exceed the concentration listed in the following table:

| Pollutant or pollutant property | PSNS pretreatment standards: Maximum for 1 day (mg/l) |
|---|---|
| Copper, total | 1.0 |

(c) [Reserved - Nonchemical Metal Cleaning Wastes].

(d)(1) The **pollutants** discharged in cooling tower blowdown shall not exceed the concentration listed in the following table:

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| Pollutant or pollutant property | PSNS pretreatment standards: Maximum for any time (mg/l) |
|---|---|
| The 126 **priority pollutants** (Appendix A) contained in chemicals added for cooling tower maintenance, except: | |
| Chromium, total | 0.2 |
| Zinc, total | 1.0 |

(2) At the permitting authority's discretion, instead of the monitoring in 40 CFR 122.11(b), compliance with the limitations for the 126 **priority pollutants** in paragraph (d)(1) of this section may be determined by engineering calculations which demonstrate that the regulated **pollutants** are not detectable in the final discharge by the analytical methods in 40 CFR part 136.

(e) There shall be no discharge of wastewater **pollutants** from fly ash transport water.

Appendix A to Part 423-126 **Priority Pollutants**

001 Acenaphthene
002 Acrolein
003 Acrylonitrile
004 Benzene
005 Benzidine
006 Carbon tetrachloride (tetrachloromethane)
007 Chlorobenzene
008 1,2,4-trichlorobenzene

009 Hexachlorobenzene
010 1,2-dichloroethane
011 1,1,1-trichloroethane
012 Hexachloroethane
013 1,1-dichloroethane
014 1,1,2-trichloroethane
015 1,1,2,2-tetrachloroethane
016 Chloroethane
018 Bis(2-chloroethyl) ether
019 2-chloroethyl vinyl ether (mixed)
020 2-chloronaphthalene
021 2,4, 6-trichlorophenol
022 Parachlorometa cresol
023 Chloroform (trichloromethane)
024 2-chlorophenol
025 1,2-dichlorobenzene
026 1,3-dichlorobenzene
027 1,4-dichlorobenzene
028 3,3-dichlorobenzidine
029 1,1-dichloroethylene
030 1,2-trans-dichloroethylene
031 2,4-dichlorophenol
032 1,2-dichloropropane
033 1,2-di[chyph]chloro[chyph]propy[chyph]lene (1,3-
di[chyph]chloro[chyph]pro[chyph]pene)
034 2,4-dimethylphenol
035 2,4-dinitrotoluene
036 2,6-dinitrotoluene
037 1,2-diphenylhydrazine
038 Ethylbenzene
039 Fluoranthene
040 4-chlorophenyl phenyl ether
041 4-bromophenyl phenyl ether
042 Bis(2-chloroisopropyl) ether
043 Bis(2-chloroethoxy) methane
044 Methylene chloride (dichloromethane)
045 Methyl chloride (dichloromethane)
046 Methyl bromide (bromomethane)
047 Bromoform (tribromomethane)
048 Dichlorobromomethane
051 Chlorodibromomethane
052 Hexachlorobutadiene
053 Hexachloromyclopentadiene
054 Isophorone
055 Naphthalene
056 Nitrobenzene
057 2-nitrophenol
058 4-nitrophenol
059 2,4-dinitrophenol
060 4,6-dinitro-o-cresol
061 N-nitrosodimethylamine
062 N-nitrosodiphenylamine
063 N-nitrosodi-n-propylamin
064 Pentachlorophenol
065 Phenol
066 Bis(2-ethylhexyl) phthalate
067 Butyl benzyl phthalate
068 Di-N-Butyl Phthalate
069 Di-n-octyl phthalate
070 Diethyl Phthalate

071 Dimethyl phthalate
072 1,2-benzanthracene (benzo(a) anthracene
073 Benzo(a)pyrene (3,4-benzo-pyrene)
074 3,4-Benzofluoranthene (benzo(b) fluoranthene)
075 11,12-benzofluoranthene (benzo(b) fluoranthene)
076 Chrysene
077 Acenaphthylene
078 Anthracene
079 1,12-benzoperylene (benzo(ghi) perylene)
080 Fluorene
081 Phenanthrene
082 1,2,5,6-dibenzanthracene (dibenzo(,h) anthracene)
083 Indeno (,1,2,3-cd) pyrene (2,3-o-pheynylene pyrene)
084 Pyrene
085 Tetrachloroethylene
086 Toluene
087 Trichloroethylene
088 Vinyl chloride (chloroethylene)
089 Aldrin
090 Dieldrin
091 Chlordane (technical mixture and metabolites)
092 4,4-DDT
093 4,4-DDE (p,p-DDX)
094 4,4-DDD (p,p-TDE)
095 Alpha-endosulfan
096 Beta-endosulfan
097 Endosulfan sulfate
098 Endrin
099 Endrin aldehyde
100 Heptachlor

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101 Heptachlor epoxide (BHC-hexachlorocyclohexane)
102 Alpha-BHC
103 Beta-BHC
104 Gamma-BHC (lindane)
105 Delta-BHC (PCB-polychlorinated biphenyls)
106 PCB-1242 (Arochlor 1242)
107 PCB-1254 (Arochlor 1254)
108 PCB-1221 (Arochlor 1221)
109 PCB-1232 (Arochlor 1232)
110 PCB-1248 (Arochlor 1248)
111 PCB-1260 (Arochlor 1260)
112 PCB-1016 (Arochlor 1016)
113 Toxaphene
114 Antimony
115 Arsenic
116 Asbestos
117 Beryllium
118 Cadmium
119 Chromium
120 Copper
121 Cyanide, Total
122 Lead
123 Mercury
124 Nickel
125 Selenium
126 Silver
127 Thallium

126 Silver
128 Zinc
129 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)

WESTERN KENTUCKY ENERGY

Western Kentucky Energy Corp.
115 N. Main Street
P.O. Box 1518
Henderson, KY 42419-1518
270-844-6000
270-844-6028 FAX

July 14, 2004

Courtney Seitz
Inventory and Data Management Section
KPDES Branch
Division of Water
Frankfort Office Park
14 Reilly Rd.
Frankfort KY 40601

Re: KPDES No: KY0054836

Dear Mr. Seitz

Please find enclosed a permit renewal application and fee for Western Kentucky Energy's D.B. Wilson power plant. The application is complete except for section V. The samples have been collected and delivered to Test America Laboratories. I will complete part V upon receipt of the analysis from Test America Laboratories and forward the form to your attention.

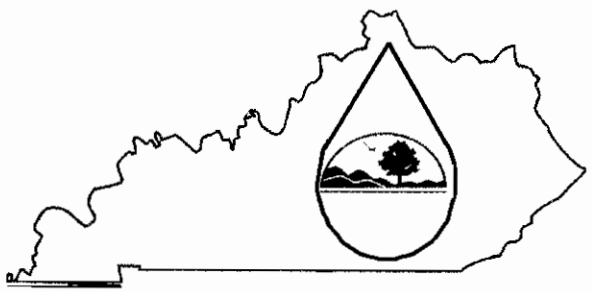
If you have any questions please feel free to call me at 270-844-6031 or e-mail to tom.shaw@lgeenergy.com.

Sincerely,

Thomas L. Shaw
Senior Environmental Scientist
Western Kentucky Energy

A LG&E SUBSIDIARY

# KPDES FORM 1



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
- ☒ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Short Form C

**For additional information contact:**
**KPDES Branch (502) 564-3410**

| I. FACILITY LOCATION AND CONTACT INFORMATION | AGENCY USE | | | | | | | |
|---|---|---|---|---|---|---|---|---|

A. Name of business, municipality, company, etc. requesting permit
Western Kentucky Energy

| B. Facility Name and Location | C. Facility Owner/Mailing Address |
|---|---|
| Facility Location Name.<br>D.B. Wilson Station | Owner Name:<br>Big Rivers Electric Corp |
| Facility Location Address (i.e. street, road, etc.):<br>5663 State Route Hwy 85 West | Mailing Street:<br>201 Third Street, P.O. Box 24 |
| Facility Location City, State, Zip Code:<br>Centertown, KY 42328 | Mailing City, State, Zip Code:<br>Henderson, KY 42420 |
| | Telephone Number:<br>(270)844-6031 |

**II. FACILITY DESCRIPTION**

A. Provide a brief description of activities, products, etc: Steam electric generation. Addition of new discharge points along fuel conveyor system.

B. Standard Industrial Classification (SIC) Code and Description

| | | | |
|---|---|---|---|
| Principal SIC Code & Description: | 4911 Coal-fired steam electric | | |
| Other SIC Codes: | | | |

**III. FACILITY LOCATION**

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

| B. County where facility is located: | City where facility is located (if applicable): |
|---|---|
| Ohio | Between Island and Centertown |

C. Body of water receiving discharge:
Green River

| D. Facility Site Latitude (degrees, minutes, seconds): | Facility Site Longitude (degrees, minutes, seconds): |
|---|---|
| N37-27-15 | W87-06-06 |

E. Method used to obtain latitude & longitude (see instructions): Topo

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 031072619

## IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:

☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

| Name of Treatment Plant Operator: | Telephone Number: |
|---|---|
| Operator Mailing Address (Street): | |
| Operator Mailing Address (City, State, Zip Code): | |
| Is the operator also the owner? Yes ☐ No ☐ | Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☐ |
| Certification Class: | Certification Number: |

## V. EXISTING ENVIRONMENTAL PERMITS

| Current NPDES Number: | Issue Date of Current Permit: | Expiration Date of Current Permit: |
|---|---|---|
| KY0054836 | Feb 2001 | Oct 2004 |
| Number of Times Permit Reissued: | Date of Original Permit Issuance: June 1980 | Sludge Disposal Permit Number: |
| Kentucky DOW Operational Permit #: | Kentucky DSMRE Permit Number(s): | |

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

| CATEGORY | EXISTING PERMIT WITH NO. | PERMIT NEEDED WITH PLANNED APPLICATION DATE |
|---|---|---|
| Air Emission Source | 0-86-34 | |
| Solid or Special Waste | 092-00004 | |
| Hazardous Waste - Registration or Permit | KYD-012-576-286 | |

## VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

| A. Name of department, office or official submitting DMRs: | Gregory Black |
|---|---|
| B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.) | |
| DMR Mailing Name: | Western Kentucky Energy |
| DMR Mailing Street: | P.O. Box 1518 |
| DMR Mailing City, State, Zip Code: | Henderson, KY 42419-1518 |
| DMR Official Telephone Number: | 270-844-6022 |

## VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

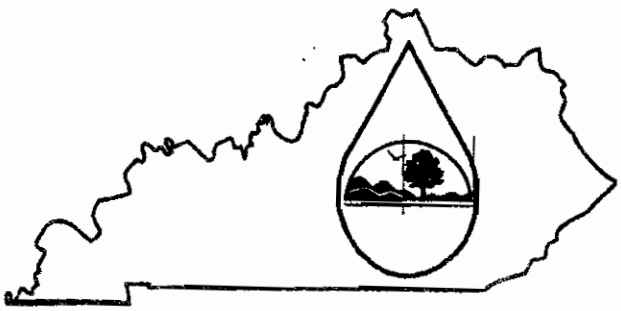
| Facility Fee Category: | Filing Fee Enclosed: |
|---|---|
| Major Industry | 640.00 |

## VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Gregory Black, Manager of Env & Tech Services | 270-844-6022 |
| SIGNATURE: Gregory Black | DATE: July 12, 2004 |

# KPDES FORM C



## KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: D.B. Wilson

County: Ohio

AGENCY USE

### I. OUTFALL LOCATION

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 001 | 37 | 27 | 15 | 87 | 06 | 06 | Green River |
| 002 | 37 | 28 | 45 | 87 | 04 | 10 | Green River |
| 003 | 37 | 26 | 40 | 87 | 04 | 57 | Elk Creek |
| 005 | | | | | | | Internal to 001 |

### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| C01 | Main Plant discharge | 0.15 MGD | | |
| | Contributing Flows: | | | |
| | Waste Water Pond | 0.32 MGD | | |
| | Coal Pile Runoff | | | |
| | Plant Drains | | | |
| | Cooling Tower Blowdown | 0.19 MGD | | |
| | Wastewater Impoundment | | | |
| | Plantsite runoff | | | |
| | | | | |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

of Facility: D.B. Wilson

County: Ohio

AGENCY USE

TFALL LOCATION

ch outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| tfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 006 | | | | | | | Internal to 001 |
| 007 | | | | | | | Internal to 003 |
| 008 | | | | | | | Intake at Green River |
| 009 | 37 | 27 | 10 | 87 | 04 | 45 | Green River |

## FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| UTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 002 | Scrubber Sludge Landfill | 0.14 MGD | Storm water runoff colledted in a pond for settling and neutralization | 2-K 1-U |
| 003 | Plant Site stormwater runoff and sanitary wastewater. | 0.51 MGD | Stormwater runoff sanitary wastewater sedimentation basins | 1U 2K 4A 1-V |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☐ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☐ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

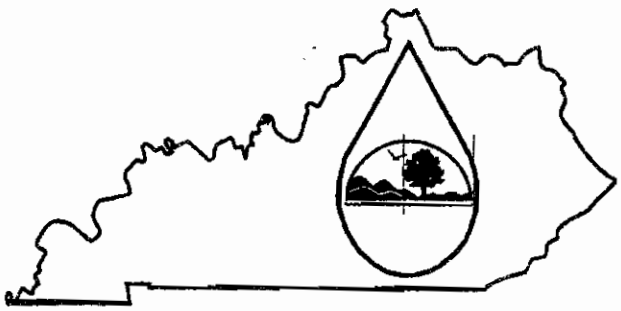
## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☐ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: D.B. Wilson

County: Ohio

AGENCY USE

## I. OUTFALL LOCATION

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| Outfall No. (list) | LATITUDE | | | LONGITUDE | | | RECEIVING WATER (name) |
|---|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | |
| 010 | 37 | 27 | 11 | 87 | 05 | 27 | Green River |
| 011 | 37 | 27 | 14 | 87 | 05 | 5 | Green River |
| 012 | 37 | 27 | 13 | 87 | 06 | 30 | Green River |
| 013 | 37 | 27 | 39 | 87 | 06 | 14 | Green River |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

| OUTFALL NO. (list) | OPERATION(S) CONTRIBUTING FLOW | | TREATMENT | |
|---|---|---|---|---|
| | Operation (list) | Avg/Design Flow (include units) | Description | List Codes from Table C-1 |
| 010 | Stormwater runoff from solid fuel conveyor | 0.22 MGD | Settlement | 1-U 1-R |
| 011 | Stormwater runoff from solid fuel conveyor | 0.26 MGD | Settlement | 1-U 1-R |
| 012 | Stormwater runoff from solid fuel conveyor | 0.25 MGD | Settlement | 1-U 1-R |
| 013 | Stormwater runoff from solid fuel conveyor | 0.64 MGD | Settlement | 1-U 1-R |

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

| OUTFALL NUMBER (list) | OPERATIONS CONTRIBUTING FLOW (list) | FREQUENCY | | FLOW | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Days Per Week (specify average) | Months Per Year (specify average) | Flow Rate (in mgd) | | Total volume (specify with units) | | Duration (in days) |
| | | | | Long-Term Average | Maximum Daily | Long-Term Average | Maximum Daily | |
| | | | | | | | | |

## III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (Complete Item III-B) List effluent guideline category:

☐ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

| MAXIMUM QUANTITY | | | Affected Outfalls |
|---|---|---|---|
| Quantity Per Day | Units of Measure | Operation, Product, Material, Etc. (specify) | (list outfall numbers) |
| | | | |

## IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

| IDENTIFICATION OF CONDITION AGREEMENT, ETC. | AFFECTED OUTFALLS | | BRIEF DESCRIPTION OF PROJECT | FINAL COMPLIANCE DATE | |
|---|---|---|---|---|---|
| | No. | Source of Discharge | | Required | Projected |
| | | | | | |

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

| POLLUTANT | SOURCE | POLLUTANT | SOURCE |
|---|---|---|---|
| | | | |

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☒ Yes (List all such pollutants below) ☐ No (Go to Item VI-B)

Chlorine
Sodium Hydroxide
Propolyene Glycol
Sodium Hypochlorite
BETZ CDP (Polyaluminum Chloride)
Sulfuric Acid
DiBasic Acid
BETZ 3625 (Quantinary Amine)
BETZ 2460 (Anti Scaler)
Ammonia
BETZ 3200 (Corrosion inhibitor)
BETZ 3610 (Methylene Bis Thocyanate)
BETZ BRE-11 phosphonic acid
1, hydroxyethylidine Bis (HEDP)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

## VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below) ☐ No (Go to Section VIII)

## VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

| NAME | ADDRESS | TELEPHONE (Area code & number) | POLLUTANTS ANALYZED (list) |
|---|---|---|---|
| Test America | 2960 Foster Creighton Drive<br>Nashville, TN 37204 | 615-301-5041 | ALL |

## IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| NAME AND OFFICIAL TITLE (type or print): | TELEPHONE NUMBER (area code and number): |
|---|---|
| Kenneth M. Stewart<br>General Manager - D.B. Wilson Station | 270-844-5012 |
| SIGNATURE<br>Kenneth M. Stewart | DATE<br>July 15, 2004 |

WESTERN KENTUCKY ENERGY
A SUBSIDIARY OF LG&E ENERGY

Western Kentucky Energy Corp.
PO Box 1518
145 N. Main Street
Henderson, KY 42420

KENTUCKY STATE TREASURER
14 REILLY RD
DIVISION OF WATER
FRANKFORT, KY 40601

WESTERN KENTUCKY ENERGY
A SUBSIDIARY OF LG&E ENERGY

000109
020402

| DATE | INVOICE NUMBER | DESCRIPTION | DISCOUNT | NET AMOUNT |
|---|---|---|---|---|
| 29-JUN-04 | 6445 | KPDES PERMIT RENEWAL FEES FOR W | 0.00 | 640.00 |
| | | | 0.00 | 640.00 |

**PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY.** You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

| V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C) | | | | | | | | | | OUTFALL NO. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. | | | | | | | | | | | | |
| 1. POLLUTANT | 2. EFFLUENT | | | | | | | 3. UNITS (specify if blank) | | 4. INTAKE (optional) | | |
| | a. Maximum Daily Value | | b. Maximum 30-Day Value (if available) | | c. Long-Term Avg. Value (if available) | | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg. Value | | b. No of Analyses |
| | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | (1) Concentration | (2) Mass | | | | (1) Concentration | (2) Mass | |
| a. Biochemical Oxygen Demand (BOD) | | | | | | | | | | | | |
| b. Chemical Oxygen Demand (COD) | | | | | | | | | | | | |
| c. Total Organic Carbon (TOC) | | | | | | | | | | | | |
| d. Total Suspended Solids (TSS) | | | | | | | | | | | | |
| e. Ammonia (as N) | | | | | | | | | | | | |
| f. Flow (in units of MGD) | VALUE | | VALUE | | VALUE | | | MGD | | VALUE | | |
| g. Temperature (winter) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| h. Temperature (summer) | VALUE | | VALUE | | VALUE | | | °c | | VALUE | | |
| i. pH | MINIMUM | MAXIMUM | MINIMUM | MAXIMUM | | | | STANDARD UNITS | | | | |

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

| 1. POLLUTANT AND CAS NO. (if available) | 2. MARK "X" | | 3. EFFLUENT | | | | | | 4. UNITS | | 5. INTAKE (optional) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | a. Believed Present | b. Believed Absent | a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | a. Concentration | b. Mass | a. Long-Term Avg Value (1) Concentration | a. Long-Term Avg Value (2) Mass | b. No. of Analyses |
| a. Bromide (24959-67-9) | | | | | | | | | | | | | | |
| b. Bromine Total Residual | | | | | | | | | | | | | | |
| c. Chloride | | | | | | | | | | | | | | |
| d. Chlorine, Total Residual | | | | | | | | | | | | | | |
| e. Color | | | | | | | | | | | | | | |
| f. Fecal Coliform | | | | | | | | | | | | | | |
| g. Fluoride (16984-48-8) | | | | | | | | | | | | | | |
| h. Hardness (as $CaCO_3$) | | | | | | | | | | | | | | |
| i. Nitrate – Nitrite (as N) | | | | | | | | | | | | | | |
| j. Nitrogen, Total Organic (as N) | | | | | | | | | | | | | | |
| k. Oil and Grease | | | | | | | | | | | | | | |
| l. Phosphorous (as P), Total 7723-14-0 | | | | | | | | | | | | | | |
| m. Radioactivity | | | | | | | | | | | | | | |
| (1) Alpha, Total | | | | | | | | | | | | | | |
| (2) Beta, Total | | | | | | | | | | | | | | |
| (3) Radium Total | | | | | | | | | | | | | | |
| (4) Radium, 226, Total | | | | | | | | | | | | | | |

Part B - Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | a. Maximum Daily Value (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | b. Maximum 30-Day Value (if available) (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | c. Long-Term Avg. Value (if available) (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| n. Sulfate (as $SO_4$) (14808-79-8) | | | | | | | | | | | | | | |
| o. Sulfide (as S) | | | | | | | | | | | | | | |
| p. Sulfite (as $SO_4$) (14286-46-3) | | | | | | | | | | | | | | |
| q. Surfactants | | | | | | | | | | | | | | |
| r. Aluminum, Total (7429-90) | | | | | | | | | | | | | | |
| s. Barium, Total (7440-39-3) | | | | | | | | | | | | | | |
| t. Boron, Total (7440-42-8) | | | | | | | | | | | | | | |
| u. Cobalt, Total (7440-48-4) | | | | | | | | | | | | | | |
| v. Iron, Total (7439-89-6) | | | | | | | | | | | | | | |
| w. Magnesium Total (7439-96-4) | | | | | | | | | | | | | | |
| x. Molybdenum Total (7439-98-7) | | | | | | | | | | | | | | |
| y. Manganese, Total (7439-96-6) | | | | | | | | | | | | | | |
| z. Tin, Total (7440-31-5) | | | | | | | | | | | | | | |
| aa. Titanium, Total (7440-32-6) | | | | | | | | | | | | | | |

Part C - If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS** | | | | | | | | | | | | | | | |
| 1M. Antimony Total (7440-36-0) | | | | | | | | | | | | | | | |
| 2M. Arsenic, Total (7440-38-2) | | | | | | | | | | | | | | | |
| 3M. Beryllium Total (7440-41-7) | | | | | | | | | | | | | | | |
| 4M. Cadmium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 5M. Chromium Total (7440-43-9) | | | | | | | | | | | | | | | |
| 6M. Copper Total (7550-50-8) | | | | | | | | | | | | | | | |
| 7M. Lead Total (7439-92-1) | | | | | | | | | | | | | | | |
| 8M. Mercury Total (7439-97-6) | | | | | | | | | | | | | | | |
| 9M. Nickel, Total (7440-02-0) | | | | | | | | | | | | | | | |
| 10M. Selenium, Total (7782-49-2) | | | | | | | | | | | | | | | |
| 11M. Silver, Total (7440-28-0) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **METALS, CYANIDE AND TOTAL PHENOLS (Continued)** | | | | | | | | | | | | | | | |
| 12M. Thallium, Total (7440-28-0) | | | | | | | | | | | | | | | |
| 13M. Zinc, Total (7440-66-6) | | | | | | | | | | | | | | | |
| 14M. Cyanide, Total (57-12-5) | | | | | | | | | | | | | | | |
| 15M. Phenols, Total | | | | | | | | | | | | | | | |
| **DIOXIN** | | | | | | | | | | | | | | | |
| 2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6) | | | | DESCRIBE RESULTS: | | | | | | | | | | | |
| **GC/MS FRACTION – VOLATILE COMPOUNDS** | | | | | | | | | | | | | | | |
| 1V. Acrolein (107-02-8) | | | | | | | | | | | | | | | |
| 2V. Acrylonitrile (107-13-1) | | | | | | | | | | | | | | | |
| 3V. Benzene (71-43-2) | | | | | | | | | | | | | | | |
| 5V. Bromoform (75-25-2) | | | | | | | | | | | | | | | |
| 6V. Carbon Tetrachloride (56-23-5) | | | | | | | | | | | | | | | |
| 7V. Chloro-benzene (108-90-7) | | | | | | | | | | | | | | | |
| 8V. Chlorodibro-momethane (124-48-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9V. Chloroethane (74-00-3) | | | | | | | | | | | | | | | |
| 10V. 2-Chloro-ethylvinyl Ether (110-75-8) | | | | | | | | | | | | | | | |
| 11V. Chloroform (67-66-3) | | | | | | | | | | | | | | | |
| 12V. Dichloro-bromomethane (75-71-8) | | | | | | | | | | | | | | | |
| 14V. 1,1-Dichloroethane (75-34-3) | | | | | | | | | | | | | | | |
| 15V. 1,2-Dichloroethane (107-06-2) | | | | | | | | | | | | | | | |
| 16V. 1,1-Dichlorethylene (75-35-4) | | | | | | | | | | | | | | | |
| 17V. 1,2-Di-chloropropane (78-87-5) | | | | | | | | | | | | | | | |
| 18V. 1,3-Dichloropro-pylene (452-75-6) | | | | | | | | | | | | | | | |
| 19V. Ethyl-benzene (100-41-4) | | | | | | | | | | | | | | | |
| 20V. Methyl Bromide (74-83-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21V. Methyl Chloride (74-87-3) | | | | | | | | | | | | | | | |
| 22V. Methylene Chloride (75-00-2) | | | | | | | | | | | | | | | |
| 23V. 1,1,2,2-Tetrachloro-ethane (79-34-5) | | | | | | | | | | | | | | | |
| 24V. Tetrachloro-ethylene (127-18-4) | | | | | | | | | | | | | | | |
| 25V. Toluene (108-88-3) | | | | | | | | | | | | | | | |
| 26V. 1,2-Trans-Dichloro-ethylene (156-60-5) | | | | | | | | | | | | | | | |
| 27V. 1,1,1-Tri-chloroethane (71-55-6) | | | | | | | | | | | | | | | |
| 28V. 1,1,2-Tri-chloroethane (79-00-5) | | | | | | | | | | | | | | | |
| 29V. Trichloro-ethylene (79-01-6) | | | | | | | | | | | | | | | |
| 30V. Vinyl Chloride (75-01-4) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (If available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (If available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (If available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (If available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – ACID COMPOUNDS** | | | | | | | | | | | | | | | |
| 1A. 2-Chlorophenol (95-57-8) | | | | | | | | | | | | | | | |
| 2A. 2,4-Dichlorophenol (120-83-2) | | | | | | | | | | | | | | | |
| 3A. 2,4-Dimethylphenol (105-67-9) | | | | | | | | | | | | | | | |
| 4A. 4,6-Dinitro-o-cresol (534-52-1) | | | | | | | | | | | | | | | |
| 5A. 2,4-Dinitrophenol (51-28-5) | | | | | | | | | | | | | | | |
| 6A. 2-Nitrophenol (88-75-5) | | | | | | | | | | | | | | | |
| 7A. 4-Nitrophenol (100-02-7) | | | | | | | | | | | | | | | |
| 8A. P-chloro-m-cresol (59-50-7) | | | | | | | | | | | | | | | |
| 9A. Pentachlorophenol (87-88-5) | | | | | | | | | | | | | | | |
| 10A. Phenol (108-05-2) | | | | | | | | | | | | | | | |
| 11A. 2,4,6-Trichlorophenol (88-06-2) | | | | | | | | | | | | | | | |
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS** | | | | | | | | | | | | | | | |
| 1B. Acenaphthene (83-32-9) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 2B. Acenaphtylene (208-96-8) | | | | | | | | | | | | | | | |
| 3B. Anthracene (120-12-7) | | | | | | | | | | | | | | | |
| 4B. Benzidine (92-87-5) | | | | | | | | | | | | | | | |
| 5B. Benzo(a)-anthracene (56-55-3) | | | | | | | | | | | | | | | |
| 6B. Benzo(a)-pyrene (50-32-8) | | | | | | | | | | | | | | | |
| 7B. 3,4-Benzofluoranthene (205-99-2) | | | | | | | | | | | | | | | |
| 8B. Benzo(ghl)perylene (191-24-2) | | | | | | | | | | | | | | | |
| 9B. Benzo(k)-fluoranthene (207-08-9) | | | | | | | | | | | | | | | |
| 10B. Bis(2-chloroethoxy)-methane (111-91-1) | | | | | | | | | | | | | | | |
| 11B. Bis (2-chloroisopropyl)-Ether | | | | | | | | | | | | | | | |
| 12B. Bis (2-ethylhexyl)-phthalate (117-81-7) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | a. Believed Present | b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 13B. 4-Bromo-phenyl Phenyl ether (101-55-3) | | | | | | | | | | | | | | | |
| 14B. Butyl-benzyl phthalate (85-68-7) | | | | | | | | | | | | | | | |
| 15B. 2-Chloro-naphthalene (7005-72-3) | | | | | | | | | | | | | | | |
| 16B. 4-Chloro-phenyl phenyl ether (7005-72-3) | | | | | | | | | | | | | | | |
| 17B. Chrysene (218-01-9) | | | | | | | | | | | | | | | |
| 18B. Dibenzo-(a,h) Anthracene (53-70-3) | | | | | | | | | | | | | | | |
| 19B. 1,2-Dichloro-benzene (95-50-1) | | | | | | | | | | | | | | | |
| 20B. 1,3-Dichloro-Benzene (541-73-1) | | | | | | | | | | | | | | | |
| 21B. 1,4-Dichloro-benzene (106-46-7) | | | | | | | | | | | | | | | |
| 22B. 3,3-Dichloro-benzidene (91-94-1) | | | | | | | | | | | | | | | |
| 23B. Diethyl Phthalate (84-66-2) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (If available) | 2. MARK "X" a. Testing Required | b. Believed Present | c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | (2) Mass | b. Maximum 30-Day Value (if available) (1) Concentration | (2) Mass | c. Long-Term Avg. Value (if available) (1) Concentration | (2) Mass | d. No. of Analyses | 4. UNITS a. Concentration | b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | (2) Mass | b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 24B. Dimethyl Phthalate (131-11-3) | | | | | | | | | | | | | | | |
| 25B. Di-N-butyl Phthalate (84-74-2) | | | | | | | | | | | | | | | |
| 26B. 2,4-Dinitro-toluene (121-14-2) | | | | | | | | | | | | | | | |
| 27B. 2,6-Dinitro-toluene (606-20-2) | | | | | | | | | | | | | | | |
| 28B. Di-n-octyl Phthalate (117-84-0) | | | | | | | | | | | | | | | |
| 29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7) | | | | | | | | | | | | | | | |
| 30B. Fluoranthene (208-44-0) | | | | | | | | | | | | | | | |
| 31B. Fluorene (86-73-7) | | | | | | | | | | | | | | | |
| 32B. Hexachloro-benzene (118-71-1) | | | | | | | | | | | | | | | |
| 33B. Hexachloro-butadiene (87-68-3) | | | | | | | | | | | | | | | |
| 34B. Hexachloro-cyclopenta-diene (77-47-4) | | | | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)** | | | | | | | | | | | | | | | |
| 35B. Hexachloroethane (67-72-1) | | | | | | | | | | | | | | | |
| 36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5) | | | | | | | | | | | | | | | |
| 37B. Isophorone (78-59-1) | | | | | | | | | | | | | | | |
| 38B. Napthalene (91-20-3) | | | | | | | | | | | | | | | |
| 39B. Nitrobenzene (98-95-3) | | | | | | | | | | | | | | | |
| 40B. N-Nitrosodimethylamine (62-75-9) | | | | | | | | | | | | | | | |
| 41B. N-nitrosodi-n-propylamine (621-64-7) | | | | | | | | | | | | | | | |
| 42B. N-nitrosodiphenylamine (86-30-6) | | | | | | | | | | | | | | | |
| 43B. Phenanthrene (85-01-8) | | | | | | | | | | | | | | | |
| 44B. Pyrene (129-00-0) | | | | | | | | | | | | | | | |
| 45B. 1,2,4 Trichlorobenzene (120-82-1) | | | | | | | | | | | | | | | |

Part C – Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" b. Believed Present | 2. MARK "X" c. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg. Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 1P. Aldrin (309-00-2) | | | | | | | | | | | | | | | |
| 2P. α-BHC (319-84-6) | | | | | | | | | | | | | | | |
| 3P. β-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 4P. gamma-BHC (58-89-9) | | | | | | | | | | | | | | | |
| 5P. δ-BHC (319-86-8) | | | | | | | | | | | | | | | |
| 6P. Chlordane (57-74-9) | | | | | | | | | | | | | | | |
| 7P. 4,4'-DDT (50-29-3) | | | | | | | | | | | | | | | |
| 8P. 4,4'-DDE (72-55-9) | | | | | | | | | | | | | | | |
| 9P. 4,4'-DDD (72-54-8) | | | | | | | | | | | | | | | |
| 10P. Dieldrin (60-57-1) | | | | | | | | | | | | | | | |
| 11P. α-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 12P. β-Endosulfan (115-29-7) | | | | | | | | | | | | | | | |
| 13P. Endosulfan Sulfate (1031-07-8) | | | | | | | | | | | | | | | |
| 14P. Endrin (72-20-8) | | | | | | | | | | | | | | | |

Part C - Continued

| 1. POLLUTANT And CAS NO. (if available) | 2. MARK "X" a. Testing Required | 2. MARK "X" a. Believed Present | 2. MARK "X" b. Believed Absent | 3. EFFLUENT a. Maximum Daily Value (1) Concentration | 3. EFFLUENT a. Maximum Daily Value (2) Mass | 3. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration | 3. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass | 3. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration | 3. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass | 3. EFFLUENT d. No. of Analyses | 4. UNITS a. Concentration | 4. UNITS b. Mass | 5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration | 5. INTAKE (optional) a. Long-Term Avg Value (2) Mass | 5. INTAKE (optional) b. No. of Analyses |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **GC/MS FRACTION – PESTICIDES** | | | | | | | | | | | | | | | |
| 15P. Endrin Aldehyde (7421-93-4) | | | | | | | | | | | | | | | |
| 16P Heptachlor (76-44-8) | | | | | | | | | | | | | | | |
| 17P. Heptaclor Epoxide (1024-57-3) | | | | | | | | | | | | | | | |
| 18P. PCB-1242 (53469-21-9) | | | | | | | | | | | | | | | |
| 19P. PCB-1254 (11097-69-1) | | | | | | | | | | | | | | | |
| 20P. PCB-1221 (11104-28-2) | | | | | | | | | | | | | | | |
| 21P. PCB-1232 (11141-16-5) | | | | | | | | | | | | | | | |
| 22P. PCB-1248 (12672-29-6) | | | | | | | | | | | | | | | |
| 23P. PCB-1260 (11096-82-5) | | | | | | | | | | | | | | | |
| 24P. PCB-1016 (12674-11-2) | | | | | | | | | | | | | | | |
| 25P. Toxaphene (8001-35-2) | | | | | | | | | | | | | | | |

# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM
# FORM C – INSTRUCTIONS

Listed below are explanations of select Form C questions. If further information is needed concerning any questions, please contact the Division of Water, at (502) 564-3410.

## I. OUTFALL LOCATION

Use the map you provided for Item III of Form 1 to determine the latitude and longitude of each of your outfalls and the name of the receiving water.

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and storm water runoff. Group similar operations into a single unit and label to correspond to the more detailed listing in Item II.B. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. Use actual measurements whenever available. Otherwise, use your best estimate.

B. List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower"). Estimate the flow contributed by each source if no data are available. For storm water, use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time; and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order. Select the proper code from Table C-1 to fill in column 3-b for each treatment unit. Insert "XX" into column 3-b if no code corresponds to a treatment unit you have listed.

If the permit application is for a privately-owned treatment works, you must also identify all of your contributors in an attached listing.

C. A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharge. Base your answers on actual data whenever available, otherwise, provide your best estimate. Report the highest daily for flow rate and total volume in the "Maximum Daily" columns (columns 4-a-2 and 4-b-2). Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns (columns 4-a-1 and 4-b-1).

## III. MAXIMUM PRODUCTION

A. If you are unsure whether you are covered by a promulgated effluent guideline, check with the Department for Environmental Protection, Division of Water. You must check "yes" if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe that promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operation, you may check "no."

B. An effluent guideline is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter, for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one that limits the concentration of pollutants.

C. This item must be completed only if you check "yes" to Item III.B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated.

Report quantities in the units of measurements used in the applicable effluent guidelines. The figures provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation. But these figures may not be based on design capacity or on predictions of future increases in operation.

If you have two or more substantially identical outfalls, request permission from the Division of Water to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is

granted, identify on a separate sheet attached to the application form the outfall tested, and describe why the outfalls not tested are substantially identical to the tested outfall.

## IV. IMPROVEMENTS

A. If you check "yes" to this question, complete all parts of the chart or attach a copy of any previous submission you have made to the Department for Environmental Protection containing the same information.

## V. INTAKE AND EFFLUENT CHARACTERISTICS

This item requires you to collect and report data on the pollutants discharged for each of your outfalls. Each part of this item addresses a different set of pollutants and must be completed in accordance with the specific instructions for that part. The following general instructions apply to the entire item.

### GENERAL INSTRUCTIONS

In the "Mark X" columns of Parts B and C mark only one box per pollutant. Part D requires you to list any of a group of pollutants which you believe to be present, with a brief explanation of why you believe it to be present. See specific instruction on the form and below for Parts A through D.

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts, and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff.) If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believed Present" but "X" in that "Intake" column.

### REPORTING

All levels must be reported as concentration and as total mass. Use the following abbreviations in the columns headed "Units" (column 3, Part A, and column 4, Parts B and C).

| CONCENTRATIONS | | MASS | |
|---|---|---|---|
| ppm | parts per million | lbs. | Pounds |
| mg/l | milligrams per liter | ton | Tons (english tons) |
| ppb | parts per billion | mg | Milligrams |
| µg/l | micrograms per liter | g | Grams |
| | | kg | Kilograms |
| | | T | Tonnes (metric tons) |
| | | MGD | Million Gallons Per Day |

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "Number of Analyses" columns (columns 2-a and 2-d, Part A, and columns 3-a and 3-d, Parts B and C).

For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24-hour period. For grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24-hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long-Term Average Values" columns (column 2-c, Part A, and column 3-c, Parts B and C). Also report the total number of daily values under the "Number of Analyses" columns (column 2-d, Part A, and column 3-d, Parts B and C). Determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30-Day Values" columns (2-b, Part A, and column 3-b, Parts B and C).

## SAMPLING

The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact the Department for Environmental Protection or appropriate regional office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes which contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets.

## ANALYSIS

Use test methods promulgated in 40 CFR Part 136; however, if none have been promulgated for a particular pollutant, use any suitable methods for measuring the level of the pollutant in your discharge provided that you submit a description of the methods or a reference to a published method. Your description should include the sample holding times, preservation techniques, and the quality control measures used.

## REPORTING OF INTAKE DATA

You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, effluent limitations adjusted by subtracting the average level of the pollutant(s) present in your intake water. 401 KAR 5:065, Section 3(7), allows net limitations only in certain circumstances. To demonstrate your eligibility, report the average of the results of analysis on your intake water in the "Intake" columns (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

1. A statement that the intake and discharge are from the same water body (Otherwise, you are not eligible for net limitations);
2. A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater (Your limitations will be adjusted only to the extent that the pollutant is not removed);
3. When applicable (for example, when the pollutant represents a class of compounds), a demonstration of the extent to which the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in your discharge. (Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.)

## SPECIFIC INSTRUCTIONS

A. This part must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water or storm runoff. However, at your request, the Division of Water may waive the requirements to test for one or more of these pollutants upon a determination that testing for the pollutant(s) is not appropriate for your effluents.

   Use grab samples for pH and temperature. Use composite samples for all pollutants in this part. See discussion in General Instructions to Item V for definitions of the columns in Part A. The "Long-Term Average Values" column (column 2-c) and "Maximum 30-Day Values" column (column 2-b) are not compulsory but should be filled out if data are available.

B. This part must be completed by all applicants for all outfalls including those containing only noncontact cooling water or storm runoff.

   Use composite samples for all pollutants you analyze in this part, except use grab samples for residual chlorine, oil and grease, and fecal coliform. The "Long-Term Average Values" column (column 3-b) are not compulsory but should be filled out if data are available.

C. Table C-2 lists the 34 "primary" industry categories in the left-hand column. For each outfall, if any of your processes which contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (column 2-a) and test for: (A) all of the toxic metals, cyanide, and total phenols; and (B) the organic toxic pollutants contained in the gas chromatography/mass spectrometry (GC/MS) fractions indicated in Table C-2 as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS fractions on pages V-4 through V-10 in Part V-C. For example, the Organic Chemical industry has an "X" in all four fractions; therefore, applicants in this category must test for all organic toxic pollutants in Part V-C. If you are applying for a permit for a

privately owned treatment works, determine your testing contributors. The industry category you use for testing requirements is not used to categorize you for any other purpose.

For all other cases (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-b) or the "Believed Absent" column (column 2-c) for each pollutant, and test for those you believe present (those marked "X" in column 2-b). If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants listed on page V-4 through V-10 in Part C. For pollutants in intake water, see discussion in General Instructions to this item. The "Long-Term Average Values" column (column 3-c) and "Maximum 30-Day Values" column (column 3-b) are not compulsory but should be filled out if data are available.

Use grab samples for total phenols and cyanide. Use composite samples for all other pollutants in this part.

Mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T);
B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP);
C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon);
D. 0, 0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Romel);
E. 2,4,5-trichlorophenol (TCP); or
F. Hexachlorophene (HCP)

If you mark "Testing Required" or "Believed Present" you must perform a screening analysis for dioxins, using gas chromotography with an electron capture detector. A TCDD standard for quantification is not required. Describe the results of this analysis in the space provided, for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." You may be required to perform a quantitative analysis if you report a positive result.

The Engineering and Analysis Division of EPA has collected and analyzed samples from some facilities for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents were sampled and analyzed as part of this program in the last three years, you may use this data to answer Part C. This may be done provided that no process change or change in raw materials, process or operating practices has occurred since the samples were taken which would make the analyses unrepresentative of your current discharge.

**Small Business Exemption**

If you qualify as a "small business," under 401 KAR 5:060, Section 2(8) you are exempt from the reporting requirements for the organic toxic pollutants listed on pages 9 through 18 in Part C. If your facility is a coal mine with a probable total annual production of less than 100,000 tons, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR Section 795.14(c)) instead of conducting analyses for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than $100,000 per year (in second quarter 1980 dollars), you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants.

The production or sales data must be for the facility that is the source of the discharge. The data should not be limited to production or sales for the process or processes that contribute to the discharge, unless those are the only processes of your facility. For sales data, in situations involving intra-corporate transfers of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product prices deflator (second quarter of 1980 = 100). This index is available in "National Income and Product Accounts of the United States" (U.S. Department of Commerce, Bureau of Economic Analysis).

D. List any pollutants in Table C-3 that you believe to be present and explain why you believe them to be present. No analysis is required, but if you have analytical data, you must report it also.

**NOTE:** Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table C-3 of these instructions) may be exempted from the requirements of Section 311 of the Clean Water Act (33 USC Section 1321), which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substance are identified in the KPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirement of Section 311, attach additional sheets of paper to your form, setting forth the following information:

A. the substance and the amount of each substance which may be discharged;
B. the origin and source of the discharge of the substance;
C. the treatment which is provided or to be provided for the discharge by:

1. an on-site treatment system separate from any treatment system treating your normal discharge;
2. a treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
3. any combination of the above.

See 40 CFR Section 117.12(a)(2) and (c), published on August 29, 1979, or contact the Division of Water for further information on exclusions from Section 311.

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. You may not claim this information as confidential. However, you do not have to distinguish between use of production of the pollutants or list the amounts. Under KPDES regulations, your permit will contain limits to control all pollutants you report in answer to this question, as well as pollutants reported in Item V and VI.B at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you begin or expect to begin to use or manufacture any toxic pollutant as an immediate or final product or byproduct which you did not report here. Your permit may be modified at that time if necessary to control that pollutant.

B. Consider only those variations which may result in the concentrations of pollutants in effluents which exceed twice the maximum values you reported in Item V. These variations may be part of your routing operations, or part of your regular cleaning cycles.

Under KPDES regulations, your permit will contain limits to control any pollutant that you report in this item at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Department for Environmental Protection if you know or have reason to believe that any toxic pollutant two times the maximum values reported in Item V-C or in this item. Your permit may be modified at that time if necessary to control the pollutant.

Do not consider variations that are the result of bypasses or upsets. Increased levels of pollutants that are discharged as a result of bypasses or upsets are regulated separately under KPDES regulations.

C. Variation exemptions to be described here include:

Changes in raw or intermediate materials
Changes in process equipment or materials;
Changes in product lines;
Significant chemical reactions among pollutants in waste streams; and
Significant variation in removal efficiencies of pollution control equipment.

You may indicate other types of variations as well, except those that are the result of bypasses or upsets. You may be required to further investigate or document variations you report here.

Base your prediction on expected levels of these pollutants upon your knowledge of your processes, raw materials, past and projected product ranges, etc., or upon any testing of your effluent which indicates the range of variability that can be expected over the next five years.

**EXAMPLE:** Outfall 001 discharges water used to clean six 500-gallon tanks. These tanks are used for formulation of dispersions of synthetic resins in water (adhesives). Use of toxic pollutants which can be expected in the next 5 years is:

1. copper acetate inhibitor, 1/2 lb. per tank;
2. dibutyl phthalate, 50 lbs. per tank;
3. toluene, 5 lbs. per tank; and
4. antimony oxide, 1 lb. per tank.

Based on normal cleaning, an average of 1% and a maximum of 3% of the contents of each tank is collected and discharged once every two weeks in the 150 gallons of water used for cleaning. Treatment (pH adjustment, flocculation, filtration) removes 85% of metals and 50% of organic compounds.

## IX. CERTIFICATION

The certification is to be signed as follows:

Corporation: by a principal officer of at least the level of vice president.

Partnership or sole proprietorship: by a general partner or the proprietor, respectively.

Municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official.

# TABLE C-1
# CODES FOR TREATMENT UNITS
# (For use with Form C, Item II, Part B)

## PHYSICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 1-A | Ammonia Stripping | 1-M | Grit Removal |
| 1-B | Dialysis | 1-N | Microstraining |
| 1-C | Diatomaceous Earth Filtration | 1-O | Mixing |
| 1-D | Distillation | 1-P | Moving Bed Filters |
| 1-E | Electrodialysis | 1-Q | Multimedia Filtration |
| 1-F | Evaporation | 1-R | Rapid Sand Filtration |
| 1-G | Flocculation | 1-S | Reverse Osmosis (Hyperfiltration) |
| 1-H | Flotation | 1-T | Screening |
| 1-I | Foam Fractionation | 1-U | Sedimentation (Settling) |
| 1-J | Freezing | 1-V | Slow Sand Filtration |
| 1-K | Gas-Phase Separation | 1-W | Solvent Extraction |
| 1-L | Grinding (Comminutors) | 1-X | Sorption |

## CHEMICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 2-A | Carbon Adsorption | 2-G | Disinfection (Ozone) |
| 2-B | Chemical Oxidation | 2-H | Disinfection (Other) |
| 2-C | Chemical Precipitation | 2-I | Electrochemical Treatment |
| 2-D | Coagulation | 2-J | Ion Exchange |
| 2-E | Dechlorination | 2-K | Neutralization |
| 2-F | Disinfection (Chlorine) | 2-L | Reduction |

## BIOLOGICAL TREATMENT PROCESSES

| | | | |
|---|---|---|---|
| 3-A | Activated Sludge | 3-E | Pre-Aeration |
| 3-B | Aerated Lagoons | 3-F | Spray Irrigation/Land Application |
| 3-C | Anaerobic Treatment | 3-G | Stabilization Ponds |
| 3-D | Nitrification-Denitrification | 3-H | Trickling Filtration |

## OTHER PROCESSES

| | | | |
|---|---|---|---|
| 4-A | Discharge to Surface Water | 4-C | Reuse/Recycle of Treated Effluent |
| 4-B | Ocean Discharge Through Outfall | 4-D | Underground Injection |

## SLUDGE TREATMENT AND DISPOSAL PROCESSES

| | | | |
|---|---|---|---|
| 5-A | Aerobic Digestion | 5-M | Heat Drying |
| 5-B | Anaerobic Digestion | 5-N | Heat Treatment |
| 5-C | Belt Filtration | 5-O | Incineration |
| 5-D | Centrifugation | 5-P | Land Application |
| 5-E | Chemical Conditioning | 5-Q | Landfill |
| 5-F | Chlorine Treatment | 5-R | Pressure Filtration |
| 5-G | Composting | 5-S | Pyrolysis |
| 5-H | Drying Beds | 5-T | Sludge Lagoons |
| 5-I | Elutriation | 5-U | Vacuum Filtration |
| 5-J | Flotation Thickening | 5-V | Vibration |
| 5-K | Freezing | 5-W | Wet Oxidation |
| 5-L | Gravity Thickening | | |

## TABLE C-2
## TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY
**(For use with Form C, Item V, Part C)**

| FRACTION* / INDUSTRY CATEGORY | Volatile | Acid | Base/Neutral | GC/MS Pesticide |
|---|---|---|---|---|
| Adhesives and sealants | x | x | x | - |
| Aluminum forming | x | x | x | - |
| Auto and other laundries | x | x | x | x |
| Battery manufacturing | x | - | x | - |
| Coal mining | x | x | x | x |
| Coil coating | x | x | x | - |
| Copper forming | x | x | x | - |
| Electric and electronic compounds | x | x | x | x |
| Electroplating | x | x | x | - |
| Explosives manufacturing | - | x | x | - |
| Foundries | x | x | x | |
| Gum and wood chemicals | x | x | x | x |
| Inorganic chemicals manufacturing | x | x | x | - |
| Iron and steel manufacturing | x | x | x | - |
| Leather tanning and finishing | x | x | x | x |
| Mechanical products manufacturing | x | x | x | - |
| Nonferrous metals manufacturing | x | x | x | x |
| Ore mining | x | x | x | x |
| Organic chemicals manufacturing | x | x | x | x |
| Paint and ink formulation | x | x | x | - |
| Pesticides | x | x | x | x |
| Petroleum refining | x | x | x | x |
| Pharmaceutical preparation | x | x | x | - |
| Photographic equipment and supplies | x | x | x | x |
| Plastic and synthetic materials manufacturing | x | x | x | x |
| Plastic processing | x | - | - | - |
| Porcelain enameling | x | - | x | x |
| Printing and publishing | x | x | x | x |
| Pulp and paperboard mills | x | x | x | x |
| Rubber Processing | x | x | x | - |
| Soap and detergent manufacturing | x | x | x | - |
| Steam electric power plants | x | x | x | - |
| Textile mills | x | x | x | x |
| Timber products processing | x | x | x | x |

* **The pollutants in each fraction are listed in item V-C.**

x = **Testing required.**

\- = **Testing not required.**

# TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT

**(For use with Form C, Item V, Part D)**

## TOXIC POLLUTANT

Asbestos

## HAZARDOUS SUBSTANCES

| | | | | | |
|---|---|---|---|---|---|
| 1. | Acetaldehyde | 35. | Ammonium thiocyanate | 69. | Calcium chromate |
| 2. | Acetic Acid | 36. | Ammonium thiosulfate | 70. | Calcium cyanide |
| 3. | Acetic anhydride | 37. | Amyl acetate | 71. | Calcium dodecylbenzenesulfonate |
| 4. | Acetone cyanohydrin | 38. | Aniline | 72. | Calcium hypochlorite |
| 5. | Acetyl bromide | 39. | Antimony pentachloride | 73. | Captan |
| 6. | Acetyl chloride | 40. | Antimony potassium tartrate | 74. | Carbaryl |
| 7. | Acrolein | 41. | Antimony tribromide | 75. | Carbofuran |
| 8. | Acrylonitrile | 42. | Antimony trichloride | 76. | Carbon disulfide |
| 9. | Adipic acid | 43. | Antimony trifluoride | 77. | Carbon tetrachloride |
| 10. | Aldrin | 44. | Antimony trioxide | 78. | Chlordane |
| 11. | Allyl alcohol | 45. | Arsenic disulfide | 79. | Chlorine |
| 12. | Allyl chloride | 46. | Arsenic pentoxide | 80. | Chlorobenzene |
| 13. | Aluminum sulfate | 47. | Arsenic trichloride | 81. | Chloroform |
| 14. | Ammonia | 48. | Arsenic trioxide | 82. | Chloropyrifos |
| 15. | Ammonium acetate | 49. | Arsenic trisulfide | 83. | Chlorosulfonic acid |
| 16. | Ammonium benzoate | 50. | Barium cyanide | 84. | Chromic acetate |
| 17. | Ammonium bicarbonate | 51. | Benzene | 85. | Chromic acid |
| 18. | Ammonium bichromate | 52. | Benzoic acid | 86. | Chromic sulfate |
| 19. | Ammonium bifluoride | 53. | Benzonitrile | 87. | Chromous chloride |
| 20. | Ammonium bisulfite | 54. | Benzoyl chloride | 88. | Cobaltous bromide |
| 21. | Ammonium carbamate | 55. | Benzyl chloride | 89. | Cobaltous formate |
| 22. | Ammonium carbonate | 56. | Beryllium chloride | 90. | Cobaltous sulfamate |
| 23. | Ammonium chloride | 57. | Beryllium fluoride | 91. | Coumaphos |
| 24. | Ammonium chromate | 58. | Beryllium nitrate | 92. | Cresol |
| 25. | Ammonium citrate | 59. | Butylacetate | 93. | Crotonaldehyde |
| 26. | Ammonium fluoroborate | 60. | n-Butylphthalate | 94. | Cupric acetate |
| 27. | Ammonium fluoride | 61. | Butylamine | 95. | Cupric acetoarsenite |
| 28. | Ammonium hydroxide | 62. | Butyric acid | 96. | Cupric chloride |
| 29. | Ammonium oxalate | 63. | Cadmium acetate | 97. | Cupric nitrate |
| 30. | Ammonium silicofluoride | 64. | Cadmium bromide | 98. | Cupric oxalate |
| 31. | Ammonium sulfamate | 65. | Cadmium chloride | 99. | Cupric sulfate |
| 32. | Ammonium sulfide | 66. | Cadmium arsenate | 100. | Cupric sulfate ammoniated |
| 33. | Ammonium sulfite | 67. | Calcium arsenite | 101. | Cupric tartrate |
| 34. | Ammonium tartrate | 68. | Calcium carbide | 102. | Cyanogen chloride |

## HAZARDOUS SUBSTANCES (continued)

| | | | | | |
|---|---|---|---|---|---|
| 103. | Cyclohexane | 134. | Ethylene dichloride | 165. | Lead iodide |
| 104. | 2,4-D acid (2,4-Dichlorophenoxyacetic acid) | 135. | Ethylene diaminetetracetic acid (EDTA) | 166. | Lead nitrate |
| 105. | 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) | 136. | Ferric ammonium citrate | 167. | Lead stearate |
| 106. | DDT | 137. | Ferric ammonium oxalate | 168. | Lead sulfate |
| 107. | Diazinon | 138. | Ferric chloride | 169. | Lead sulfide |
| 108. | Dicamba | 139. | Ferric fluoride | 170. | Lead thiocyanate |
| 109. | Dichlobenil | 140. | Ferric nitrate | 171. | Lindane |
| 110. | Dichlone | 141. | Ferric sulfate | 172. | Lithium chromate |
| 111. | Dichlorobenzene | 142. | Ferrous ammonium sulfate | 173. | Malathion |
| 112. | Dichloropropane | 143. | Ferrous chloride | 174. | Maleic acid |
| 113. | Dichloropropene | 144. | Ferrous sulfate | 175. | Maleic anhydride |
| 114. | Dichloropropene-dichloropropane mix | 145. | Formaldehyde | 176. | Mercaptodimethur |
| 115. | 2,2-Dichloropropionic acid | 146. | Formic acid | 177. | Mercuric cyanide |
| 116. | Dichlorvos | 147. | Fumaric acid | 178. | Mercuric nitrate |
| 117. | Dieldrin | 148. | Furfural | 179. | Mercuric sulfate |
| 118. | Diethylamine | 149. | Guthion | 180. | Mercuric thiocyanate |
| 119. | Dimethylamine | 150. | Heptachlor | 181. | Mercurous nitrate |
| 120. | Dinitrobenzene | 151. | Hexachlorocyclopentadiene | 182. | Methoxychlor |
| 121. | Dinitrophenol | 152. | Hydrochloric acid | 183. | Methyl mercaptan |
| 122. | Dinitrotoluene | 153. | Hydrofluoric acid | 184. | Methyl methacrylate |
| 123. | Diquat | 154. | Hydrogen cyanide | 185. | Methyl parathion |
| 124. | Disulfoton | 155. | Hydrogen sulfite | 186. | Mevinphos |
| 125. | Diuron | 156. | Isoprene | 187. | Mexacarbate |
| 126. | Dodecylbenzesulfonic acid | 157. | Isopropanolamine dodecylbenzenesulfonate | 188. | Monoethylamine |
| 127. | Endosulfan | 158. | Kelthane | 189. | Monomethylamine |
| 128. | Endrin | 159. | Kepone | 190. | Naled |
| 129. | Epichlorohydrin | 160. | Lead acetate | 191. | Naphthalene |
| 130. | Ethion | 161. | Lead arsenate | 192. | Naphthenic acid |
| 131. | Ethylbenzene | 162. | Lead chloride | 193. | Nickel ammonium sulfate |
| 132. | Ethylenediamine | 163. | Lead fluoborate | 194. | Nickel chloride |
| 133. | Ethylene dibromide | 164. | Lead fluorite | 195. | Nickel hydroxide |

## HAZARDOUS SUBSTANCES (continued)

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|---|---|---|---|---|---|
| 196. | Nickel nitrate | 221. | Propargite | 246. | Sodium phosphate (tribasic) |
| 197. | Nickel sulfate | 222. | Propionic acid | 247. | Sodium selenite |
| 198. | Nitric acid | 223. | Propionic anhydride | 248. | Strontium choromate |
| 199. | Nitrobenzene | 224. | Propylene oxide | 249. | Strychnine |
| 200. | Nitrogen dioxide | 225. | Pyrethrins | 250. | Styrene |
| 201. | Nitrophenol | 226. | Quinoline | 251. | Sulfuric acid |
| 202. | Nitrotoluene | 227. | Resorcinol | 252. | Sulfur monochloride |
| 203. | Paraformaldehyde | 228. | Selenium oxide | 253. | 2,4,5-T acid (2,4,5-Trichlorophenoxy acetic acid) |
| 204. | Parathion | 229. | Silver nitrate | 254. | 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines) |
| 205. | Pentachlorophenol | 230. | Sodium | 255. | 2,4,5-T esters (2,4,5-Trichlorophenoxy acetic acid esters) |
| 206. | Phenol | 231. | Sodium arsenate | 256. | 2,4,5-salts (2,4,5-Trichlorophenoxy acetic acid salts) |
| 207. | Phosgene | 232. | Sodium arsenite | 257. | 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid) |
| 208. | Phosphoric acid | 233. | Sodium bichromate | 258. | 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters) |
| 209. | Phosphorus | 234. | Sodium bifluoride | 259. | TDE (Tetrachlorodiphenyl ethane) |
| 210. | Phosphorus oxychloride | 235. | Sodium bisulfite | 260. | Tetraethyl lead |
| 211. | Phosphorus pentasulfide | 236. | Sodium chromate | 261. | Tetraethyl pyrophosphate |
| 212. | Phosphorus trichloride | 237. | Sodium cyanide | 262. | Thallium sulfate |
| 213. | Polychlorinated biphenyls (PCB) | 238. | Sodium dodecylbenzenesulfonate | 263. | Toluene |
| 214. | Potassium arsenate | 239. | Sodium fluoride | 264. | Toxaphene |
| 215. | Potassium arsenite | 240. | Sodium hydrosulfide | 265. | Trichlorofon |
| 216. | Potassium bichromate | 241. | Sodium hydroxide | 266. | Trichloroethylene |
| 217. | Potassium chromate | 242. | Sodium hypochlorite | 267. | Trichlorophenol |
| 218. | Potassium cyanide | 243. | Sodium methylate | 268. | Triethanolamine dodecylbenzenesulfonate |
| 219. | Potassium hydroxide | 244. | Sodium nitrate | 269. | Triethylamine |
| 220. | Potassium permanganate | 245. | Sodium phosphate (dibasic) | 270. | Trimethylamine |
| 271. | Uranyl acetate | 280. | Zinc ammonium chloride | 289. | Zinc nitrate |
| 272. | Uranyl nitrate | 281. | Zinc borate | 290. | Zinc phenolsulfonate |
| 273. | Vanadium pentoxide | 282. | Zinc bromide | 291. | Zinc phosphate |
| 274. | Vanadyl sulfate | 283. | Zinc carbonate | 292. | Zinc silicofluoride |
| 275. | Vinyl acetate | 284. | Zinc chloride | 293. | Zinc sulfate |
| 276. | Vinylidene chloride | 285. | Zinc cyanide | 294. | Zirconium nitrate |
| 277. | Xylene | 286. | Zinc fluoride | 295. | Zirconium potassium fluoride |
| 278. | Xylenol | 287. | Zinc formate | 296. | Zirconium sulfate |
| 279. | Zinc acetate | 288. | Zinc hydrosulfonate | 297. | Zirconium tetrachloride |