

Field Data

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 1

METHOD NO. S/202

Page 1 of 3

Client	BIG RIVERS	
Plant	OWENSBORO, KY	
Location	ESP #1	
Date	07/15/11	Project No. 3648
Meter Operator	JD	
Probe Operator	TG	
Meter ID	M-15	Yd 1.0159
ΔH@	1.843	Kf 2.64
Pre Leak Check	0.000 (in)	[ppm] @ 19 (inHg)
Post Leak Check	0.000 (in)	[ppm] @ 15 (inHg)

Barometric (inHg)	29.56	Water (in)	
Ambient Temp (°F)	85.0	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vlc	
Probe ID	AES-12.3	Liner Type	TPE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	17071		
Train ID	TR-A	Train Type	IMP
Duct Dim. (in)	102" x 102"	Port Length (in)	43"
Start Time	8:08	Stop Time	9:39



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-1	3:15	.41	1.1	50.76	293	319	321	58	90	90	5	68	
2	6:30	.42	1.1	52.54	296	320	320	56	91	91	5	68	
3	9:45	.45	1.2	56.33	309	321	320	53	92	92	5	68	
4	13:00	.47	1.2	58.26	326	326	321	51	94	92	5	67	
5	16:15	.53	1.4	60.51	326	320	320	50	96	93	6	67	
6	19:30	.51	1.4	62.35	327	319	319	50	98	93	6	68	
7	22:45	.44	1.2	64.10	325	319	320	51	99	93	6	67	
3-1	26:00	.49	1.3	66.06	326	320	320	51	100	94	6	67	
2	29:15	.53	1.4	68.01	326	320	319	52	102	94	7	68	
3	32:30	.57	1.5	70.22	326	321	320	53	104	96	7	69	
4	35:45	.60	1.6	72.43	327	320	321	55	105	97	8	68	
5	39:00	.55	1.6	74.64	328	320	321	56	105	98	8	68	
Total	91:00	20.580	40.50	38.94	945.00								
Average	3:15	.7350	1.446		323.04								

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 1


TESTING TYPE: PARTICULATE

METHOD NO. SP02

Page 2 of 3

Client	BIG RIVERS			Water (ml) [g]	79.56
Plant	DUNKESBORO, RI			Silica gel (g)	88F
Location	ES PAUL			Total Vlc	-16.50
Date	07/15/11			Probe ID	AKS-17-3
Meter Operator	JD			Nozzle ID	.250
Probe Operator	TG			Filter ID	12071
Meter ID	M-15	Yd	1-0159	Pilot Cp	.89
ΔH@	1.843	KF	2.64	Leak check	✓
Pre Leak Check	0.000	(ppm) [ppm]	@ 19	(inHg)	
Post Leak Check	0.000	(ppm) [ppm]	@ 15	(inHg)	

Barometric (inHg)	29.56
Ambient Temp (°F)	88F
Static (inH ₂ O)	-16.50
Probe ID	AKS-17-3
Nozzle ID	.250
Filter ID	12071
Train ID	118-A
Duct Dim. (In)	1/2" x 1/2"
Start Time	08:08
Stop Time	9:39

1 2 3 4

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 Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [] []	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	42:15	.59	1.6	76.87	326	319	320	54	106	99	8	67	
7	45:30	.55	1.5	79.04	326	320	321	51	107	99	8	68	
2-1	48:45	.53	1.4	81.31	327	320	321	50	107	100	7	68	
2	52:00	.59	1.6	83.48	326	320	320	49	108	100	8	69	
3	55:15	.68	1.8	86.00	326	321	320	48	109	102	9	69	
4	58:30	.68	1.8	88.46	327	321	319	48	109	102	9	69	
5	61:45	.64	1.7	90.75	327	320	319	49	111	103	8	70	
6	65:00	.59	1.6	92.87	327	321	320	50	113	104	8	70	
7	68:15	.51	1.4	94.99	326	320	319	50	113	104	8	69	
1-1	71:30	.47	1.2	97.01	325	321	320	52	113	104	7	70	
2	74:45	.50	1.3	98.99	325	320	320	52	113	105	7	69	
3	78:00	.64	1.7	101.42	324	319	320	53	114	105	8	69	
Total													
Average													

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

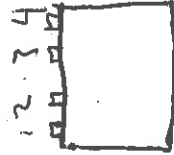
RUN NO. 1

METHOD NO. 5/202

Page 3 of 3

Client	BIG RIVERS		
Plant	OWENSBORO, KY		
Location	ESP #1		
Date	07/15/11	Project No.	3648
Meter Operator	JD		
Probe Operator	G		
Meter ID	M-15	Yd	1.0159
ΔH@	1.843	Kf	2.64
Pre Leak Check	0.000	(ppm) [ppm]	@ 19 (inHg)
Post Leak Check	0.000	(ppm) [ppm]	@ 15 (inHg)

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	85°F	Silica gel (g)	
Static (inH ₂ O)	-16.50	Total Vlc	
Probe ID	AES-72.3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12571	Train Type	IMP
Duct Dim. (in)	102" x 102"	Port Length (in)	43"



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Gas flow [in] [out] of page

Start Time	08:08	Stop Time	9:39
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	81.15	.64	1.7	107.41	324	320	320	54	114	106	9	69	
5	84.30	.60	1.6	105.56	325	320	321	55	114	106	8	69	
6	87.48	.51	1.4	107.61	325	319	320	57	114	106	7	70	
7	91.00	.47	1.2	109.70	324	320	320	58	113	106	7	71	
Total													
Average													2841.00

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

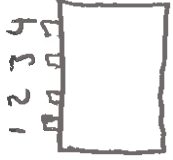
RUN NO. 2

METHOD NO. S/202

Page 1 of 5

Client	BIG RIVERS		
Plant	OWENSBORO, KY		
Location	ESP #2		
Date	07/15/11	Project No.	3648
Meter Operator	JD		
Probe Operator	TG		
Meter Id	M-15	Yd	1.0159
ΔH@	1.843	Kf	2.64
Pre Leak Check	0.000	(ppm) [ppm] @	18 (inHg)
Post Leak Check	0.000	(ppm) [ppm] @	1' (inHg)

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	85°F	Silica gel (g)	
Static (inH ₂ O)	-16.50	Total Vic	
Probe ID	AE5-12-3	Liner Type	TPE
Nozzle ID	Z50	Nozzle Dia (in)	.250
Filter ID	12124		
Train ID	FB18	Train Type	TMP
Duct Dim. (in)	102" X 102"	Port Length (in)	43"



First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Start Time	11:15	Stop Time	12:46
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Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3:15					320	320	47	97	90	4	67	
1-1	3:15	.45	1.2	113.00	320	320	47	97	90	4	67	
2	6:30	.48	1.3	114.98	320	320	48	98	91	5	69	
3	9:45	.66	1.7	116.96	320	320	49	98	94	6	69	
4	13:00	.64	1.7	118.07	320	320	50	98	93	6	76	
5	16:15	.61	1.6	121.51	320	319	50	98	92	5	69	
6	19:30	.52	1.4	123.73	320	320	51	100	94	5	70	
7	22:45	.48	1.3	125.86	319	320	51	100	96	4	70	
2-1	26:00	.52	1.4	127.88	320	320	52	100	97	5	70	
2	29:15	.57	1.5	129.86	320	319	53	100	97	5	71	
3	32:30	.68	1.8	131.94	320	320	54	101	97	6	71	
4	35:45	.66	1.7	134.30	320	320	55	103	98	6	70	
5	39:00	.66	1.7	136.56	319	320	56	102	98	6	70	
5	39:00	.66	1.7	138.73	319	320	56	102	98	6	70	
Total	91:00	20.718	40.960	58.70	7171.00			2861.00	2711.00			
Average	3:15	.7478	1.460	525.75				99.500				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

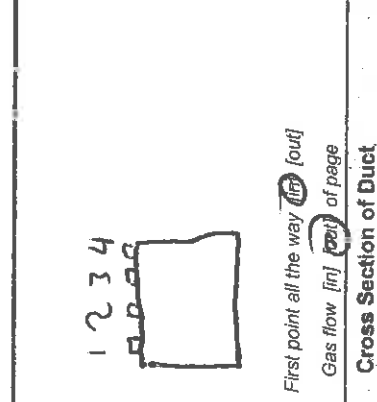
RUN NO. 2

METHOD NO. S/202

Page 2 of 3

Client	BIG RIVERS		Project No.	3648	
Plant	OWENSBORO, KY				
Location	ESP #7				
Date	07/15/11				
Meter Operator	JD				
Probe Operator	TG				
Meter ID	M-15	Yd	L0159	Pitot Cp	.84
AH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	0.000	(ppm)	@ 1.8	(inHg)	
Post Leak Check	0.000	(ppm)	@ 1.1	(inHg)	

Berometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	85°F	Silica gel (g)	
Static (inH ₂ O)	-16.50	Total Vic	
Probe ID	AK5-12-3	Liner Type	TFF
Nozzle ID	Z50	Nozzle Dia (in)	Z50
Filter ID	12124		
Train ID	TR18	Train Type	DMF
Duct Dim. (in)	102" x 102"	Port Length (in)	43"



Start Time 11:15 Stop Time 12:46

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
					Initial	Final									
6	3:15	42:15	.59	1.6	173.60	141.08	326	320	320	56	101	97	6	71	
7		45:30	.52	1.4		142.95	326	320	321	54	102	97	5	71	
3-1		48:45	.50	1.3		144.91	325	319	320	52	103	98	5	72	
2		52:00	.56	1.5		147.10	326	320	321	50	104	99	5	72	
3		55:15	.59	1.6		149.28	327	321	320	49	104	98	6	73	
4		58:30	.62	1.6		151.34	326	320	320	49	104	98	6	72	
5		61:45	.61	1.6		153.10	327	320	321	50	105	98	6	73	
6		65:00	.58	1.5		155.17	326	319	320	50	105	99	5	72	
7		68:15	.52	1.4		157.15	325	320	320	51	105	99	5	72	
4-1		71:30	.46	1.2		159.29	326	320	321	51	106	99	5	73	
2		74:45	.46	1.2		161.20	325	319	321	52	105	99	5	73	
3		78:00	.54	1.4		163.79	326	320	320	53	104	99	5	73	
Total															
Average															

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 2

METHOD NO. S/202

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Client	BIG RIVERS	
Plant	OWENSBORO, KY	
Location	ESP #2	
Date	07/15/11	Project No. 3648
Meter Operator	JD	
Probe Operator	TG	
Meter ID	M-15	Pilot Cp .85/
ΔH@	1.843	KF 2.64
Pre Leak Check	0.000 (ppm)	Leak check ✓
Post Leak Check	0.000 (ppm)	18 (inHg)

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	85°F	Silica gel (g)	
Static (inH ₂ O)	-16.50	Total Vic	
Probe ID	AE 5-12-3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12124		
Train ID	FR18	Train Type	IMP
Duct Dim. (in)	102" x 102"	Port Length (in)	43"



Start Time	11:15	Stop Time	12:46
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ml)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	91:15	.50	1.3	113.00	326	320	320	55	104	98	5	73	
5	84:30	.50	1.5	165.78	327	319	320	55	104	98	5	74	
6	87:45	.51	1.4	167.81	326	320	319	55	105	99	5	74	
7	91:00	.43	1.1	171.70	326	320	320	56	105	99	4	74	
Total													
Average													

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

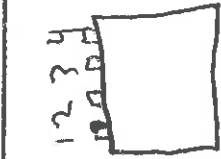
RUN NO. 3

TESTING TYPE: PARTICULATE

METHOD NO. 5/202

Page 1 of 3

Client	BIG RIVERS			Water (ml) [g]	29.56
Plant	OWENSBORO, KY			Silica gel (g)	BSF
Location	ESPTZ			Total Vic	-16.50
Date	07/15/11	Project No.	3678	Liner Type	TFR
Meter Operator	JD			Nozzle Dia (in)	.250
Probe Operator	TG			Filter ID	12140
Meter ID	M-15	Yd	1.0159	Pilot Cp	.84
ΔH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	0.000	(cfm) [ppm] @	17	(inHg)	
Post Leak Check	0.000	(cfm) [ppm] @	12	(inHg)	



Barometric (inHg)	29.56
Ambient Temp (°F)	85.5
Status (inH ₂ O)	
Probe ID	AE5-12-3
Nozzle ID	.250
Filter ID	12140
Train ID	TB-A
Duct Dim. (in)	112" x 102"
Start Time	14:04
Stop Time	16:12

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:15	3:15	.44	1.2	174.14	324	320	320	45	98	96	4	66	
2	6:30	6:30	.50	1.3	177.85	325	321	326	45	99	97	4	66	
3	9:45	9:45	.67	1.8	179.99	326	320	320	46	99	98	8	67	
4	13:00	13:00	.64	1.7	182.47	324	319	319	47	101	98	7	67	
5	16:25	16:25	.60	1.6	184.59	326	320	320	48	104	97	7	68	
6	19:30	19:30	.50	1.3	186.60	326	321	320	49	105	98	6	67	
7	22:45	22:45	.48	1.3	188.58	327	320	320	50	107	98	6	68	
2-1	26:00	26:00	.52	1.4	190.87	327	319	321	50	108	98	6	67	
2	29:25	29:25	.55	1.5	192.99	326	320	320	51	109	99	7	67	
3	32:30	32:30	.68	1.8	195.11	325	321	320	52	110	99	8	67	
4	35:45	35:45	.71	1.9	197.45	326	320	319	52	111	100	10	68	
5	39:00	39:00	.67	1.8	199.79	325	320	320	50	112	101	9	68	
Total	9:00	9:00	20.328	39.60	1913	9,110.00				3,069.00	2,837.00			
Average	3:15	3:15	7407	1.479	1913	325.357				105.464	105.464			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 3

METHOD NO. S/202

Page 2 of 3

Client	BIG RIVERS			Water (ml) [g]	29.56
Plant	OWENS BORO, KY			Silica gel (g)	850F
Location	ESP #7			Total Vic	-16.50
Date	07/15/11	Project No.	3648	Probe ID	AE5-12-3
Meter Operator	JD			Nozzle ID	.250
Probe Operator	TG			Filter ID	12140
Meter ID	M-15	Yd	1.0159	Train ID	1B-A
ΔH@	1.843	Kf	2.64	Duct Dim. (in)	1/2" x 1/2"
Pre Leak Check	0.000	Flow [lpm]	17	Start Time	14:04
Post Leak Check	0.000	Flow [lpm]	17	Stop Time	

1234
0000

First point all the way in of page
Gas flow in of page

Cross Section of Duct

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	3:15	42:15	.60	1.6	174.14	326	320	320	47	111	102	8	69	
7		45:30	.50	1.3	201.94	326	319	321	47	111	102	7	69	
3-1		48:45	.50	1.3	206.20	325	320	320	48	111	102	7	70	
2		52:00	.55	1.5	208.29	326	320	321	48	111	102	8	70	
3		55:15	.57	1.5	210.28	325	321	320	49	112	103	8	71	
4		58:30	.60	1.6	212.41	324	320	319	51	112	103	9	70	
5		61:45	.58	1.5	214.62	325	319	320	51	112	103	8	71	
6		65:00	.57	1.5	216.84	325	320	320	52	113	104	8	71	
7		68:15	.55	1.5	219.00	325	320	320	53	114	104	9	72	
4-1		71:30	.44	1.2	222.02	325	321	320	53	114	104	7	72	
2		74:45	.45	1.2	223.34	324	320	319	54	114	104	7	73	
3		78:00	.56	1.5	225.07	325	320	320	55	114	105	7	73	
Total														
Average														

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

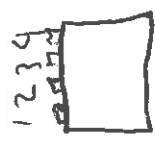
TESTING TYPE: PARTICULATE

RUN NO. 3

METHOD NO. S/102

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Client	BIG RIVERS			Water [ml] [g]	29.56
Plant	OWENSBORO, KY			Silica gel (g)	850F
Location	ESP #7			Total Vic	AE 5-12-3
Date	07/15/11			Liner Type	TFE
Meter Operator	JD			Nozzle Dia (in)	.250
Probe Operator	TG			Filter ID	12140
Meter ID	M-15	Yd	1.0159	Train ID	IB-A
ΔH@	1.843	Kf	2.64	Port Length (in)	43"
Pre Leak Check	0.022	(cfm) [ppm] @	17	Start Time	14:04
Post Leak Check	0.052	(cfm) [ppm] @	17	Stop Time	



(M) (Up)
 First point all the way (in) [out]
 Gas flow [in] [out] of page

Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	5:15	81.15	.50	1.3	74.14	325	320	320	56	114	105	7	73	
5		84.30	.55	1.5	227.10	325	320	320	57	114	105	8	74	
6		87.45	.52	1.4	229.19	325	321	320	57	115	105	9	73	
7		91.00	.43	1.1	231.21	325	320	319	58	114	105	6	74	
					233.27									
Total														
Average														

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page (2)

Client:	BIG RIVERS		
Plant:	DB Mills		
Location:	FSP 1		
Date:	2/14/11	Time:	
Operator:	BL		

Run No.	1		Filter No.	12071	
Method No.	SB202		Filter No.	12071 12071	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	530.0	630.0	-SD	
Impinger No. 2	DI	724.0	721.0		
Impinger No. 3	EMPTY	600.0	619.0		
Impinger No. 4	SILICA	950.0	960.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2		Filter No.	12124	
Method No.	SB202		Filter No.	12124	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	568.0	700.0	-SD	
Impinger No. 2	DI	722.0	715.7		
Impinger No. 3	EMPTY	643.0	643.5		
Impinger No. 4	SILICA	944.0	954.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3		Filter No.	12140	
Method No.	SB202		Filter No.	12140	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	533.0	614.4	-SD	
Impinger No. 2	SB202	723.0	715.0		
Impinger No. 3	EMPTY	603.0	607.1		
Impinger No. 4	SILICA	979.0	992.1		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

2 hrs

TESTING TYPE: HCL

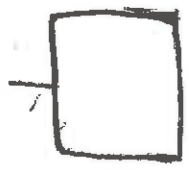
RUN NO. 1

METHOD NO. 26

Page 1 of 1

Client	<u>Big Rivers</u>		
Plant	<u>Openberg</u>		
Location	<u>FSP #1</u>	Project No.	<u>3648</u>
Date	<u>7-19-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>DG</u>		
Probe Operator	<u>TG</u>		
Meter ID	<u>M-20</u>	Yd	<u>9952</u>
ΔH@	<u>1.78</u>	XI	<u>2.59</u>
Pie Leak Check	<u>0.00</u>	Leak check	<u>0.84</u>
Post Leak Check	<u>0.00</u>	Leak check	<u>1.0</u>

Barometric (inHg)	<u>29.51</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>85</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-16.5</u>	Total Vic	
Probe ID	<u>S-10-3</u>	Liner Type	<u>gless</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>NA</u>	Train Type	<u>imp</u>
Train ID	<u>IB-9</u>	Port Length (in)	<u>43</u>
Duct Dim. (in)	<u>162" x 162"</u>		



Start Time	<u>10:09</u>	Stop Time	<u>12:09</u>
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Traverse Point	Min/Point	Velocity Pressure ΔP _v (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
10		<u>.45</u>	<u>1.16</u>	<u>386.00</u>	<u>323</u>	<u>250</u>	<u>250</u>	<u>60</u>	<u>94</u>	<u>93</u>	<u>6</u>		
20				<u>398.33</u>	<u>326</u>	<u>249</u>	<u>248</u>	<u>62</u>	<u>96</u>	<u>93</u>	<u>6</u>		
30				<u>404.38</u>	<u>326</u>	<u>249</u>	<u>248</u>	<u>61</u>	<u>97</u>	<u>93</u>	<u>6</u>		
40				<u>410.42</u>	<u>326</u>	<u>250</u>	<u>248</u>	<u>61</u>	<u>100</u>	<u>94</u>	<u>6</u>		
50				<u>416.59</u>	<u>326</u>	<u>250</u>	<u>248</u>	<u>61</u>	<u>101</u>	<u>95</u>	<u>6</u>		
60				<u>422.55</u>	<u>326</u>	<u>250</u>	<u>248</u>	<u>63</u>	<u>101</u>	<u>95</u>	<u>6</u>		
70				<u>428.61</u>	<u>327</u>	<u>249</u>	<u>248</u>	<u>63</u>	<u>102</u>	<u>96</u>	<u>6</u>		
80				<u>434.69</u>	<u>326</u>	<u>249</u>	<u>249</u>	<u>62</u>	<u>104</u>	<u>97</u>	<u>6</u>		
90				<u>440.64</u>	<u>327</u>	<u>250</u>	<u>250</u>	<u>61</u>	<u>105</u>	<u>98</u>	<u>6</u>		
100				<u>446.93</u>	<u>326</u>	<u>249</u>	<u>247</u>	<u>61</u>	<u>105</u>	<u>99</u>	<u>6</u>		
110				<u>453.04</u>	<u>326</u>	<u>250</u>	<u>249</u>	<u>62</u>	<u>106</u>	<u>99</u>	<u>6</u>		
120				<u>459.19</u>	<u>326</u>	<u>250</u>	<u>250</u>	<u>62</u>	<u>105</u>	<u>99</u>	<u>6</u>		
Total				<u>7299</u>	<u>3411</u>				<u>1216</u>	<u>1151</u>			
Average				<u>13.62</u>	<u>326</u>				<u>2367</u>				

246 98.62

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

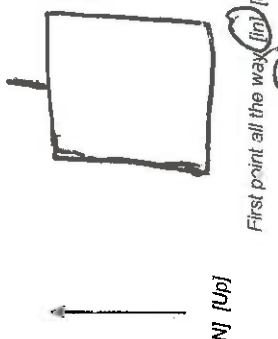
TESTING TYPE: HCL

RUN NO. 2

METHOD NO. 26

Page 1 of 1

Client	<u>Big Rivers</u>			Water [ml] [g]	<u>27.51</u>
Plant	<u>Dwensboro</u>			Silica gel (g)	<u>86</u>
Location	<u>ESL #1</u>			Total Vic	<u>-16.5</u>
Date	<u>7-14-11</u>	Project No.	<u>3448</u>	Probe ID	<u>S-10-3</u>
Meter Operator	<u>DTG</u>			Nozzle Dia (in)	<u>.250</u>
Probe Operator	<u>DTG</u>			Filter ID	<u>NA</u>
Meter ID	<u>M-20</u>	Yd	<u>1.99</u>	Train ID	<u>IB-9</u>
Altitude	<u>1.78</u>	KV	<u>2.59</u>	Duct Dim (in)	<u>102" x 162"</u>
Pre Leak Check	<u>0.00</u>	Leak Check	<u>1.8</u>	Train Type	<u>IMP</u>
Post Leak Check	<u>0.00</u>	Leak Check	<u>1.8</u>	Port Length (in)	<u>43"</u>



Start Time 13:43 Stop Time 15:43

Traverse Point	Time	Elapsed	Velocity	Pressure	On/Off	Setting	Delta H	Gas Sample	Volume	Initial	Final	Stack Temp	Probe Temp	Filter Temp	Impinger Outlet Temp	DGM Inlet Temp	DGM Outlet Temp	Pump Vacuum	Auxiliary Temp	Notes	
	10	0.95				1.16		459.90		459.90		324	230	230	62	98	98	5			
	20							465.54		471.71		325	248	247	62	102	98	5			
	30							477.69		483.78		325	251	250	62	103	99	5			
	40							483.78		489.82		323	250	248	61	102	99	5			
	50							489.82		496.01		323	250	250	61	103	99	5			
	60							496.01		501.89		323	249	247	61	102	98	5			
	70							501.89		507.90		322	251	250	62	102	98	5			
	80							507.90		513.89		320	251	251	62	102	98	5			
	90							513.89		519.92		321	251	253	61	101	97	5			
	100							519.92		525.95		321	251	250	61	102	97	5			
	110							525.95		532.04		321	251	249	61	101	97	5			
	120							532.04				321	251	249	61	103	97	5			
Total			5.14		13.90			72.14				328.69				1222	1125				
Average			1.45		1.16							322									

Circle correct bracketed [] units
Train Type denotes impingers, knock-outs, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCC

RUN NO. 3

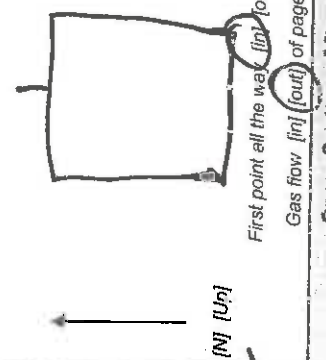
METHOD NO. 26

Page 1 of 1

Client	Big Rivers		
Plant	Owensboro, KY		
Location	ESP #1		
Date	7-14-11	Project No.	3648
Meter Operator	DG		
Probe Operator	DG/TG		
Meter ID	M-20	Yd	.9752
AH@	1.785	KI	.99
Pre Leak Check	0.00	ppm [ppm] @	1.0 (inHg)
Post Leak Check	0.00	ppm [ppm] @	1.5 (inHg)

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	85/80	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vic	
Probe ID	5-10-3	Liner Type	glass
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA		
Train ID	IB-9	Train Type	IMP
Duct Dim. (in)	102" x 162"	Port Length (in)	43.0"

Start Time	16:31	Stop Time	18:31
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Crifics ΔH (inH ₂ O)	Gas Sample Volume initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	10	.45	1.66	538.90	321	247	246	62	99	97	6		
	20			544.89	321	250	248	62	101	96	6		
	30			550.96	318	250	250	61	102	96	6		
	40			557.07	318	251	252	61	101	96	6		
	50			563.25	318	250	250	62	101	96	6		
	60			569.41	318	251	251	62	99	94	6		
	70			575.66	317	249	248	62	98	93	6		
	80			581.23	318	250	250	62	97	93	6		
	90			587.18	318	250	249	62	96	90	6		
	100			593.13	319	250	249	62	96	90	6		
	110			599.05	320	250	250	62	96	90	6		
	120			604.93	320	251	251	62	96	89	6		
Total				610.79	320	251	251	62	96	89	6		
Average				71.89	3829	251	251	62	182	1022	6		
				71.89	319	251	251	62	2304	24	6		

Page 1 of 1

Circle correct bracketed [] units
Train Type denotes impinger's, knock-uts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	BIOFABERS		
Plant	P/B Wilson		
Location	ESP 1		
Date	7/14/11	Unit	
Operator	BL		

Run No.	1		Filter No.	NA	
Method No.	26		Filter No.	NA	
	Contents	Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	H2SO4	718.0	834.0	-50	
Impinger No. 2	H2SO4	697.0	724.0		
Impinger No. 3	EMPTY	617.0	631.0		
Impinger No. 4	Silica	971.0	995.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2		Filter No.	NA	
Method No.	26		Filter No.	NA	
	Contents	Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	H2SO4	663.0	771.0	-50	
Impinger No. 2	H2SO4	644.0	691.0		
Impinger No. 3	EMPTY	567.0	573.0		
Impinger No. 4	Silica	934.0	950.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3		Filter No.	NA	
Method No.	26		Filter No.	NA	
	Contents	Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	H2SO4	725.0	845.0	-50	
Impinger No. 2	H2SO4	707.0	728.0		
Impinger No. 3	EMPTY	600.0	630.0		
Impinger No. 4	Silica	922.0	945.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: Metals

METHOD NO. 29

Client: Big Rivers
 Plant: DWEN'S BORO KY
 Location: ESP #1
 Date: 7-14-11 Project No.: 3048
 Meter Operator: TG
 Probe Operator: TG
 Meter ID: M-15 Yd 1.0159 Pilot Cp: .84
 ΔH@: 1.2-13 Kg 2.07 Leak check:
 Pre Leak Check: 1.001 (min) (point) @ 20 (inHg)
 Post Leak Check: 1.000 (min) (lbm) @ 10 (inHg)



First point all the way (in) (out)
 Gas flow (in) (out) of page

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	85	Silica gel (g)	
Static (inH ₂ O)	-14.5	Total Vlc	
Probe ID	5-12-3	Liner Type	TEE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA		
Train ID	18	Train Type	Imp
Duct Dim. (in)	10.2" x 6.2"	Port Length (in)	43"

Start Time	10:09	Stop Time	12:24
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Transverse Point	(Min/Point) Elapsed Time	Velocity Pressure AP (inH ₂ O)	Orifice Setting AH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGMI Inlet Temp (°F)	DGMI Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4:30	.50	1.20	800.07	323	250	252	55	93	89	4	NA	45 AP
2	9:00	.50	1.33	803.49	323	250	252	55	95	89	4		
3	13:30	.67	1.78	806.84	326	251	254	56	97	89	6		
4	18:00	.65	1.74	810.05	326	250	252	54	99	90	5		
5	22:30	.61	1.82	813.15	326	250	250	54	99	90	5		
6	27	.50	1.33	815.94	326	251	252	56	99	91	4		
7	31:30	.45	1.20	818.65	326	251	252	56	100	91	4		
2-1	36	.52	1.38	821.45	327	250	253	57	101	91	4		
2	40:30	.60	1.60	824.61	324	251	254	56	102	92	5		
3	45	.72	1.92	828.03	328	251	254	56	104	93	6		
4	49:30	.71	1.90	831.44	327	252	254	56	104	93	6		
5	54	.68	1.82	834.77	327	252	252	56	105	94	5	X	
Total	(176)	2035.9	40.97	83.21	4141								
Average		2420	1.4632		926.445					55.00			
					3411				1198	1092			
					325.9107								

Circle correct bracketed [] units
 Train Type denotes impingers, knock-outs, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

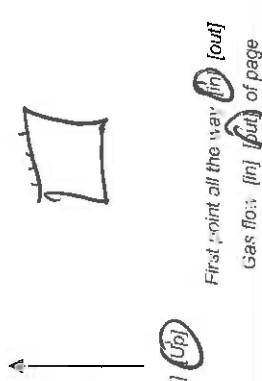
TESTING TYPE: Metals

RUN NO. _____

METHOD NO. 29

Page 2 of 3

Client:	<u>Big Rivers</u>		
Plant:	<u>Dwainsboro, KY</u>		
Location:	<u>ESP #1</u>		
Date:	<u>7-14-01</u>	Project No.	<u>3048</u>
Meter Operator:	<u>T6</u>		
Probe Operator:	<u>T6</u>		
Meter ID:	<u>M-15</u>	Yd	<u>1.0159</u>
ΔH@:	<u>1.843</u>	Kf	<u>2.02/2.02</u>
Pre Leak Check:	<u>and</u>	(in) [lpm] @	<u>20</u> (inHg)
Post Leak Check:		(in) [lpm] @	



First point all the way (in) [out] of page
Gas flow (in) [out] of page

Barometric (inHg)		Water (ml) (g)	
Ambient Temp (°F)	<u>85</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-1665</u>	Total Vic	
Probe ID	<u>S-12-3</u>	Liner Type	<u>TFE</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID			
Train ID	<u>18</u>	Train Type	<u>Imp</u>
Duct Dim. (in)		Port Length (in)	

Start Time		Stop Time	
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Train Point	Min/Point	Elapsed Time	Velocity Pressure AP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial (l)	Gas Sample Volume final (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	58:30	1:00	1.00	1.00	797.85	837.85	327	250	250	50	107	96	4	NA	
7	6:3	1:50	1.23	1.23	840.64	843.43	327	252	252	53	107	96	4		
3-1	69:30	1:49	1.28	1.28	843.43	846.38	327	250	252	53	107	96	4		
2	72	1:55	1.44	1.44	846.38	849.43	326	250	251	53	107	96	4		
3	76:30	1:57	1.49	1.49	849.43	852.55	327	250	253	53	108	96	5		
4	81	1:01	1.00	1.00	852.55	855.65	328	251	252	54	108	97	5		
5	85:30	1:00	1.57	1.57	855.65	858.73	328	251	253	55	108	97	5		
6	90	1:58	1.52	1.52	858.73	861.04	326	250	253	55	108	97	5		
7	94:30	1:53	1.31	1.31	861.04	864.20	327	250	254	55	108	97	4		
4-1	97	1:44	1.15	1.15	864.20	866.89	326	251	254	56	108	98	4		
2	103:30	1:45	1.18	1.18	866.89	869.73	327	252	252	56	108	98	4		
3	108	1:55	1.44	1.44	869.73	871	327	252	252	57	108	98	4		
Total															
Average															

1292 1108
102.25

3423
326.9167

71.28

16.99
1.4185

8.7993
0.7333

Circle correct bracketed [] units
Train Type denotes impingers, knock-outs, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

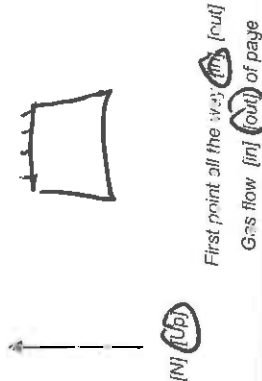
TESTING TYPE: Metals

METHOD NO. 29

RUN NO. 1

Client: Big Rivers
 Plant: Owensboro, KY
 Location: ESP #1
 Date: 7-14-11 Project No: 3648
 Meter Operator: T6
 Probe Operator: T6
 Meter ID: M-15 Yd: 1.0159 Pilot Cp: .84
 ΔH: 1.843 KI: KI Leak Check:
 Pre Leak Check: 20 (ppm) @ 20 (inHg)
 Post Leak Check: 20 (ppm) @ 20 (inHg)

Barometric (inHg): _____
 Ambient Temp (°F): 85
 Static (inH₂O): -16.5
 Probe ID: 5-12-3 Liner Type: IFE
 Nozzle ID: 250 Nozzle Dia (in): .250
 Filter ID: _____
 Train ID: 18 Train Type: Imp
 Duct Dim. (in): _____ Port Length (in): _____



Start Time		Stop Time	

Transverse Point	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Griffice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	Impinger Inlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-4	112:30	.49	1.28	872.51	327	250	250	57	106	106	97	4	N/A	
5	117	.50	1.47	875.52	327	251	253	57	105	105	96	5		
6	121:30	.50	1.31	878.32	326	250	252	58	105	105	96	4		
7	126	.42	1.10	881.06	327	251	252	58	105	105	96	4		
Total Average: <u>83.21</u>														

421 384
100.15

1307
326.75

2.8035 51.0
1.700A 11.2

Circle correct bracketed [] units
 Train Type d=notes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

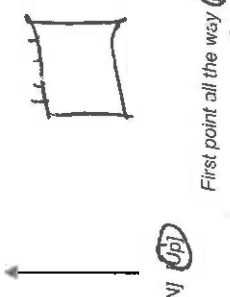
RUN NO. 2

METHOD NO. 29

Page 1 of 3

Client: <u>Big Rivers</u>		Project No. <u>8648</u>	
Plant: <u>DuPont, KY</u>			
Location: <u>ESP #1</u>			
Date: <u>7-14-11</u>			
Meter Operator: <u>TG</u>			
Probe Operator: <u>TG</u>			
Meter ID: <u>NA-15</u>	Yd: <u>10159</u>	Pilot Cp: <u>.84</u>	
ΔH _{CO} : <u>1.843</u>	Kt: <u>2.64</u>	Leak check: <input checked="" type="checkbox"/>	
Pre Leak Check: <u>1.000</u>	(ftm) (ppm): <u>2.1</u>	(inHg)	
Post Leak Check: <u>1.000</u>	(ftm) (ppm): <u>1.0</u>	(inHg)	

Barometric (inHg): <u>29.51</u>	Water (ml): <u>85</u>
Ambient Temp (°F): <u>85</u>	Silica gel (g): <u>10.5</u>
Static (inH ₂ O): <u>5-12-3</u>	Total Vic: <u>250</u>
Probe ID: <u>NA</u>	Line Type: <u>TFE</u>
Nozzle ID: <u>A</u>	Nozzle Dia (in): <u>.250</u>
Filter ID: <u>162" x 162"</u>	Train Type: <u>Imp</u>
Train ID: <u>43"</u>	Port Length (in): <u>43"</u>



Start Time: <u>13:43</u>	Stop Time: <u>15:58</u>
--------------------------	-------------------------

Traverse Point	Mini/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	.45	1.18	881.605	324	250	250	51	98	96	4	NA	
2	4	.47	1.24	884.32	323	250	250	51	98	95	4		
3	13.5	.62	1.68	870.07	323	250	252	52	98	95	5		
4	18	.66	1.74	893.73	321	250	253	52	99	95	6		
5	22.5	.63	1.60	896.82	321	250	253	52	100	94	6		
6	27	.52	1.37	899.47	321	251	252	53	100	94	4		
7	31.5	.42	1.11	902.01	322	251	252	53	100	94	4		
2-1	36	.50	1.32	904.00	322	252	253	54	100	94	4		
2	40.5	.65	1.72	908.07	321	251	252	54	100	94	4		
3	45	.72	1.90	911.49	320	251	251	55	103	94	6		
4	49.5	.70	1.85	914.88	320	250	251	55	107	95	6		
5	54	.66	1.74	918.14	320	250	252	56	103	95	6		
Total	(210)	20.308	1.824	82.19	891				550				
Average		7307	1.757		321.071				99.2857				
		9.1308	1.840	36.49	3858				1202	1195			
		7608	1.5387										

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METS

RUN NO. 2

METHOD NO. 29

Page 2 of 3

Client	<u>Big Rivers</u>		
Plant	<u>Duwsenberg, KY</u>		
Location	<u>ESP #1</u>		
Date	<u>7-14-11</u>	Project No.	<u>3048</u>
Meter Operator	<u>TG</u>		
Probe Operator	<u>TG</u>		
Meter ID	<u>M-15</u>	Yd	<u>1.0159</u>
ΔH@	<u>1.843</u>	Kf	<u>2.164</u>
Pre Leak Check	<u>0.00</u>	(lpm) @	<u>21</u>
Post Leak Check	<u>0.00</u>	(lpm) @	<u>10</u>
Pitot Cp	<u>0.85</u>		
Leak check	<input checked="" type="checkbox"/>		

Barometric (inHg)	<u>29.51</u>	Water (ml) (g)	
Ambient Temp (°F)	<u>85</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-10.5</u>	Total Vic	
Probe ID	<u>5-12-3</u>	Liner Type	<u>TFE</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>NA</u>		
Train ID	<u>A</u>	Train Type	<u>Imp</u>
Duct Dim. (in)	<u>16" x 16"</u>	Port Length (in)	<u>48"</u>



First point all the way (in) (out)
Gas flow (in) (out) of page

Start Time	<u>13:43</u>	Stop Time	<u>15:30</u>
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Traverse Point	Min/Point	Velocity Pressure AP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-0	58.5	.56	1.48	881.05	319	250	250	56	104	95	5	NA	
7	63	.50	1.32	924.03	320	251	249	56	105	95	5		
3-1	67.5	.45	1.19	920.72	320	251	250	56	105	96	4		
2	72	.52	1.37	929.53	320	251	250	57	104	95	5		
3	76.5	.55	1.45	932.52	323	250	250	57	105	96	5		
4	81	.63	1.66	939.00	323	252	252	58	105	96	6		
5	85.5	.63	1.66	939.00	322	252	252	58	104	96	6		
6	90	.57	1.50	942.17	321	251	252	58	105	96	5		
7	94.5	.54	1.43	945.15	321	251	253	57	105	96	5		
4-1	99	.45	1.19	947.94	321	251	253	57	106	96	4		
2	103.5	.45	1.19	950.51	320	250	253	56	106	96	4		
3	108	.50	1.32	953.36	320	251	254	56	106	96	5	X	
Total													
Average				71.71	3851				1260	1144			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 3 of 3

Client: <u>Big Rivers</u>		Water (ml) (g)	
Plant: <u>Dwensboro, KY</u>		Silica gel (g)	
Location: <u>ESP #1</u>		Total Vc	
Date: <u>7-14-11</u>		Probe ID: <u>225-5-12-3</u>	
Project No.: <u>3048</u>		Nozzle Dia (in)	
Meter Operator: <u>TG</u>		Filter ID	
Probe Operator: <u>TG</u>		Train ID	
Meter ID: <u>M-15</u>	Yd: <u>1.0154</u>	Pilot Gp: <u>.84</u>	Train Type: <u>Imp</u>
AH@: <u>1.843</u>	Kf: <u>2.64</u>	Leak Check: <input checked="" type="checkbox"/>	Port Length (in)
Pre Leak Check: <u>1.000</u>	(in) (lpm) @: <u>21</u>	(inHg)	
Post Leak Check: <u>1.000</u>	(in) (lpm) @: <u>16</u>	(inHg)	



Cross Section of Duct

Train Point	Min/Point	Velocity Pressure AP (inH ₂ O)	Orifice Setting AH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-4	112.5	.50	1.32	881.65	321	250	250	56	106	97	5	N/A	
5	117	.52	1.37	959.21	320	251	252	56	107	97	5		
6	121.5	.50	1.32	961.94	320	249	253	55	106	98	5		
7	126	.47	1.11	964.64	321	250	252	56	106	97	4		
Total													
Average													

2.7834
1.6458

1282

1202

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

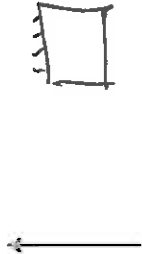
RUN NO. 3

METHOD NO. 29

Page 1 of 3

Client	<u>Big Rivers</u>		
Plant	<u>Owensboro KY</u>		
Location	<u>ESP #1</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>TG</u>		
Probe Operator	<u>TG</u>		
Meter ID	<u>M-15</u>	Yd	<u>1.0159</u>
ΔH@	<u>1.843</u>	Kf	<u>2.62</u>
Pre Leak Check	<u>1.500</u> (ppm) @	<u>1.8</u> (inHg)	Leak check <input checked="" type="checkbox"/>
Post Leak Check	<u>1.500</u> (ppm) @	<u>1.6</u> (inHg)	

Barometric (inHg)	<u>29.57</u>	Water (ml) (g)	
Ambient Temp (°F)	<u>85</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-16.5</u>	Total Vlc	
Probe ID	<u>8-12-3</u>	Liner Type	<u>TFE</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>NA</u>		
Train ID	<u>F3-18</u>	Train Type	<u>Imp</u>
Duct Dim. (in)	<u>162" x 162"</u>	Port Length (in)	<u>43"</u>
Start Time	<u>1643</u>	Stop Time	<u>1856</u>



First point all the way (in) (out)

Gas flow (in) (out) of page

Cross Section of Duct

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4:5	4.5	.47	1.23	966.25	321	250	250	50	97	96	4	NA	
2	9	9	.52	1.30	971.82	320	251	248	51	98	96	4		
3	13.5	13.5	.60	1.57	975.05	320	251	252	51	100	96	5		
4	18	18	.63	1.65	978.12	319	250	250	52	103	96	5		
5	22.5	22.5	.60	1.57	981.32	320	250	252	53	103	96	5		
6	27	27	.55	1.44	984.30	318	251	249	53	102	95	4		
7	31.5	31.5	.42	1.10	987.35	319	251	250	54	102	95	4		
2-1	36	36	.55	1.44	989.62	318	250	250	55	99	93	4		
2	40.5	40.5	.60	1.57	992.76	318	250	249	55	99	93	4		
3	45	45	.72	1.89	996.24	317	250	250	56	99	93	4		
4	49.5	49.5	.68	1.78	999.56	317	249	250	56	98	93	4		
5	54	54	.67	1.76	1002.85	318	248	251	57	97	92	5		
Total	170	170	20.8	1.479	982.93	314	248	251	57	97	92	5		
Average				1.457	982.93	314	248	251	57	97	92	5		

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 2 of 3

Client <u>Big Rivers</u>		Water [ml] [g]	
Plant <u>DWENSBORO, KY</u>		Silica gel (g)	
Location <u>ESPA</u>		Total Vlc	
Date <u>7-14-11</u>	Project No. <u>3648</u>	Probe ID	
Meter Operator <u>TG</u>		Nozzle Dia (in)	
Probe Operator <u>TG</u>		Train Type	
Meter ID <u>M-15</u>	Yd <u>1.0159</u>	Pilot Cp <u>.84</u>	
ΔH@ <u>1.843</u>	Kf <u>2.62</u>	Leak check <input checked="" type="checkbox"/>	
Pre Leak Check <u>1.000</u> [cfm] [ppm] @ <u>18</u> (inHg)		Filter ID	
Post Leak Check <u>1.000</u> [cfm] [ppm] @ <u>16</u> (inHg)		Train ID	
		Duct Dim. (in)	
Cross Section of Duct		Start Time	
Stop Time			

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	58.5	1.60	1.57	1006.32	318	250	251	57	96	91	5	NA		
7	63	.56	1.47	1008.90	319	250	249	57	96	90	5			
3-1	67.5	.50	1.31	1011.69	318	252	244	55	96	90	4			
2	72	.55	1.44	1014.80	318	251	250	56	98	90	4			
3	74.5	.57	1.50	1017.69	318	250	250	56	94	90	5			
4	81	.60	1.57	1020.97	319	250	244	56	99	90	5			
5	85.5	.60	1.57	1024.02	319	250	250	56	99	90	5			
6	90	.59	1.55	1027.05	318	251	250	57	98	90	5			
7	94.5	.52	1.36	1029.92	317	252	252	57	97	89	5			
4-1	99	.45	1.18	1032.61	317	251	253	57	97	89	4			
2	93.5	.45	1.18	1035.30	318	251	250	57	97	89	4			
3	102	.55	1.44	1037.89	318	250	248	57	97	89	4		X	
Total														
Average														

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 3

METHOD NO. 29

Page 3 of 3

Client <u>Big Rivers</u>			Project No. <u>3648</u>		
Plant <u>OWENSBORO, KY</u>					
Location <u>ESP #1</u>					
Date <u>7-14-11</u>					
Meter Operator <u>TG</u>					
Probe Operator <u>TG</u>					
Meter ID	<u>M-15</u>	Yd	<u>1.0159</u>	Pilot Cp	<u>.84</u>
ΔH@	<u>1.843</u>	Kf	<u>2.62</u>	Leak check	<input checked="" type="checkbox"/>
Pre Leak Check	<u>1.00</u>	(cfm) (ppm) @	<u>1.8</u>	(inHg)	
Post Leak Check	<u>.000</u>	(cfm) (ppm) @	<u>1.6</u>	(inHg)	

Barometric (inHg)		Water (ml)	[g]
Ambient Temp (°F)		Sifica gel (g)	
Static (inH ₂ O)		Total Vlc	
Probe ID		Liner Type	
Nozzle ID		Nozzle Dia (in)	
Filter ID		Train Type	
Train ID		Port Length (in)	
Duct Dim. (in)			

First point all the way (in) out
 Gas flow (in) (out) of page
 Cross Section of Duct

Min/Point 4:30	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Volume Initial (ft ³)	Final (ft ³)									
12.5		.55	1.44	1040.25	218	250	244	58	99	90	5	N/A		
117		.55	1.44	1043.87	318	251	252	58	101	90	5			
121.5		.50	1.91	1046.68	318	250	250	59	101	90	4			
126		.42	1.10	1049.18	318	250	253	60	101	90	4			
Total		Average												

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3448

Page 1 of 1

Client	Big Rivers Energy - Wilson Station		
Plant	Owensboro, KY		
Location	ESP 6A west		
Date	7-13-11	Grid	1
Operator	mm		

Run No.	1	Method No.	29	Filter No.	NA
	Contents	Tare (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	624.5	785.5 - 50		
Impinger No. 2	5% / 10%	732.5	758.5		
Impinger No. 3	5% / 10%	761.7	773.7		
Impinger No. 4	Empty	650.5	655.2		
Impinger No. 5	Silica	895.1	97.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
		Net Weight (g)			

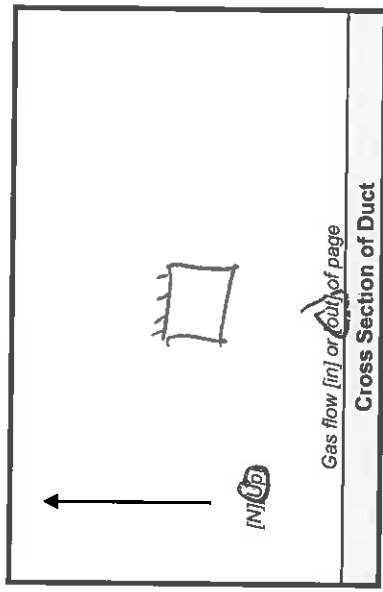
Run No.	2	Method No.	29	Filter No.	NA
	Contents	Tare (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	636.1	782.7 - 50		
Impinger No. 2	5% / 10%	752.5	776.1		
Impinger No. 3	5% / 10%	600.2	616.2		
Impinger No. 4	Empty	639.3	643.3		
Impinger No. 5	Silica	945.3	964.8		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
		Net Weight (g)			

Run No.	3	Method No.	29	Filter No.	NA
	Contents	Tare (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	634.1	783.6 - 50		
Impinger No. 2	5% / 10%	728.3	747.2		
Impinger No. 3	5% / 10%	767.0	779.6		
Impinger No. 4	Empty	653.0	660.4		
Impinger No. 5	Silica	906.8	915.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
		Net Weight (g)			

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP #1
Date	7-15-11
Project No.	3648
Meter Reader	TB



Barometric (in. Hg)	29.56
Static (in H ₂ O)	16.5
Ambient Temp. (°F)	85
Start Time	8:08
Stop Time	9:38

Sample Train A Unspiked Trap 207191 - A

Trap ID	94482	Meter ID	↑	Yd	10145
Pre Leak Check	1001	lpm @	10	(in. Hg)	
Post Leak Check	1000	lpm @	11	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	1.72	307	92	2	
7.5		3.42	308	93	2	
11.25		5.04	317	94	2	
15		6.66	318	96	2	
18.75		8.18	320	97	2	
22.5		9.68	320	99	2	
26.25		11.20	320	100	2	
30		12.70	320	101	2	
33.75		14.23	320	102	2	
37.5		15.85	320	103	2	
41.25		17.41	320	105	2	
45		18.97	320	105	2	
Total		98.17	7738	2526		
Average		38.42	105.25			

Sample Train B Spiked Trap 207191 - B

Trap ID	94228	Meter ID	↑	Yd	10167
Pre Leak Check	1004	lpm @	15	(in. Hg)	
Post Leak Check	1001	lpm @	14	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	1.42	307	96	2	
7.5		2.88	308	97	2	
11.25		4.44	317	98	2	
15		5.90	318	99	2	
18.75		7.61	320	101	2	
22.5		9.23	320	103	2	
26.25		10.79	320	103	2	
30		12.31	320	104	2	
33.75		13.77	320	105	2	
37.5		15.89	320	106	2	
41.25		16.81	320	108	2	
45		18.31	320	108	2	
Total		98.01	7738	2587		
Average		38.42	107.79			

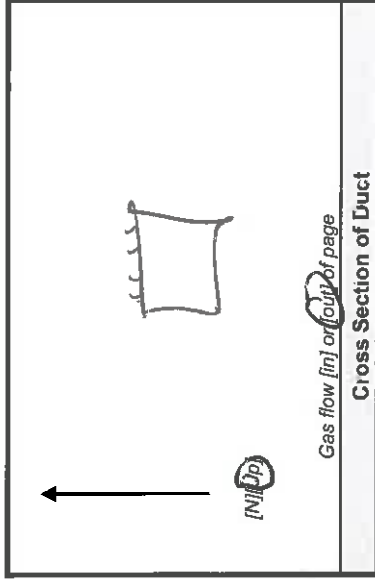
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Page 2 of 2

Client	Big Rivers
Plant	OWENS BORO, KY
Location	Exp #1
Date	7-15-11
Project No.	3048
Meter Reader	Tb



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-110.5
Ambient Temp. (°F)	85
Start Time	8:32
Stop Time	9:33

Sample Train A Unspiked Trap 207191-A

Sample Train B Spiked Trap 207191-B

Trap ID	94482	Meter ID	1	Yd	10145
Pre Leak Check	.000	lpm @	10	(in. Hg)	
Post Leak Check	.000	lpm @	11	(in. Hg)	

Trap ID	94228	Meter ID	1	Yd	99167
Pre Leak Check	.004	lpm @	15	(in. Hg)	
Post Leak Check	.007	lpm @	14	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	20.55	320	105	2	
Elapsed Time		22.01	322	107	2	
48.75		23.03	324	109	2	
52.5		25.15	325	110	2	
56.25		26.73	326	111	2	
60		28.31	328	112	2	
63.75		29.87	330	113	2	
67.5		32.43	331	114	2	
71.25		33.95	331	114	2	
75		35.45	331	114	2	
78.75		36.91	330	115	2	
82.5		38.41	330	115	2	
86.25		39.71	330	115	2	
90					2	
Total		38.01	330	116	2	
Average		38.01				

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	19.79	320	108	2	
Elapsed Time		21.31	322	109	2	
48.75		22.81	324	111	2	
52.5		24.52	325	112	2	
56.25		25.96	326	113	2	
60		27.54	328	113	2	
63.75		29.06	330	115	2	
67.5		30.62	331	115	2	
71.25		32.18	331	115	2	
75		33.80	331	114	2	
78.75		36.39	330	116	2	
82.5		38.01	330	116	2	
86.25					2	
90					2	
Total		38.01	330	116	2	
Average		38.01				

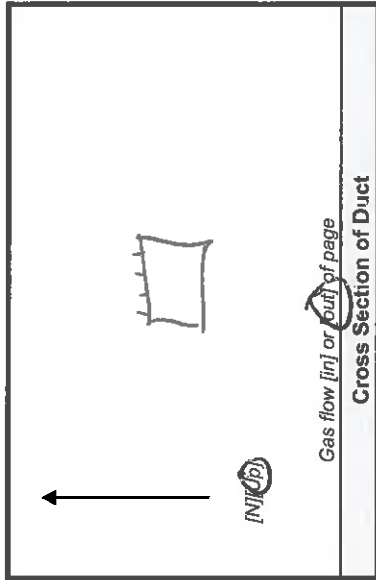
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP #1
Date	3-4-85
Project No.	7-15-11
Meter Reader	TG



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-16.5
Ambient Temp. (°F)	85
Start Time	11:15
Stop Time	12:45

Sample Train A Unspiked Trap 207191-A

Trap ID	94251	Meter ID	1	Yd	1.0145
Pre Leak Check	1.003	lpm @	12		(in. Hg)
Post Leak Check	1.002	lpm @	10		(in. Hg)

Sample Train B Spiked Trap	<u>207191-B</u>				
Trap ID	94251	Meter ID	1	Yd	1.99167
Pre Leak Check	1.003	lpm @	15		(in. Hg)
Post Leak Check	1.002	lpm @	10		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	1.46	324	101	2	
7.5		2.95	324	102	2	
11.25		4.53	326	102	2	
15		6.03	328	103	2	
18.75		7.55	330	104	2	
22.5		9.08	331	105	2	
26.25		10.60	331	105	2	
30		12.22	331	105	2	
33.75		13.85	331	106	2	
37.5		15.49	330	106	2	
41.25		17.01	330	107	2	
45		18.55	331	107	2	
Total		97.20	7990	2587		
Average		330.42	330.42	107.71		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	0.5	1.56	324	100	2	
7.5		3.12	324	101	2	
11.25		4.64	326	103	2	
15		6.14	328	103	2	
18.75		7.64	330	104	2	
22.5		9.16	331	104	2	
26.25		10.68	331	104	2	
30		12.19	331	105	2	
33.75		13.67	331	106	2	
37.5		15.19	330	106	2	
41.25		16.68	330	108	2	
45		18.24	331	108	2	
Total		36.93	7980	2585		
Average		330.42	330.42	107.71		

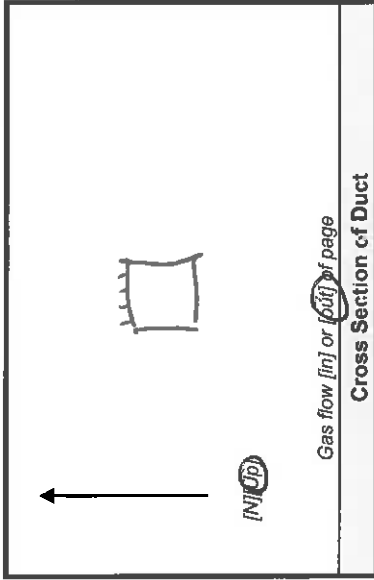
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	<u>Big Rivers</u>
Plant	<u>OWENSBORO, KY</u>
Location	<u>ESP #1</u>
Date	<u>7-15-11</u>
Project No.	<u>2048</u>
Meter Reader	<u>TB</u>



Barometric (in. Hg)	<u>29.56</u>
Static (inH ₂ O)	<u>-16.5</u>
Ambient Temp. (°F)	<u>85</u>
Start Time	<u>11:15</u>
Stop Time	<u>12:45</u>

94481 Sample Train A Unspiked Trap 207191-A

Trap ID	<u>94481</u>	Meter ID	<u>1</u>	Yd	<u>10.45</u>
Pre Leak Check	<u>1.002</u>	lpm @			<u>12</u>
Post Leak Check	<u>1.001</u>	lpm @			<u>10</u>

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
<u>2.15</u>						
Elapsed Time						
<u>48.15</u>	<u>0.5</u>	<u>20.08</u>	<u>333</u>	<u>109</u>	<u>2</u>	
<u>52.5</u>		<u>21.00</u>	<u>333</u>	<u>110</u>	<u>2</u>	
<u>54.25</u>		<u>23.22</u>	<u>332</u>	<u>110</u>	<u>2</u>	
<u>60</u>		<u>24.84</u>	<u>332</u>	<u>110</u>	<u>2</u>	
<u>62.75</u>		<u>26.42</u>	<u>332</u>	<u>111</u>	<u>2</u>	
<u>67.5</u>		<u>27.42</u>	<u>332</u>	<u>112</u>	<u>2</u>	
<u>71.25</u>		<u>29.44</u>	<u>333</u>	<u>112</u>	<u>2</u>	
<u>75</u>		<u>31.00</u>	<u>332</u>	<u>112</u>	<u>2</u>	
<u>78.75</u>		<u>32.42</u>	<u>332</u>	<u>112</u>	<u>2</u>	
<u>82.5</u>		<u>34.07</u>	<u>332</u>	<u>112</u>	<u>2</u>	
<u>86.25</u>		<u>35.63</u>	<u>330</u>	<u>112</u>	<u>2</u>	
<u>90</u>		<u>37.21</u>	<u>330</u>	<u>112</u>	<u>2</u>	
Total						
Average						

Sample Train B Spiked Trap 207191-B

Trap ID	<u>9425</u>	Meter ID	<u>1</u>	Yd	<u>99.67</u>
Pre Leak Check	<u>.003</u>	lpm @			<u>15</u>
Post Leak Check	<u>.001</u>	lpm @			<u>10</u>

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
<u>3.25</u>						
Elapsed Time						
<u>0.5</u>	<u>0.5</u>	<u>19.73</u>	<u>333</u>	<u>110</u>	<u>2</u>	
		<u>21.29</u>	<u>333</u>	<u>110</u>	<u>2</u>	
		<u>22.81</u>	<u>332</u>	<u>111</u>	<u>2</u>	
		<u>24.33</u>	<u>332</u>	<u>111</u>	<u>2</u>	
		<u>25.85</u>	<u>332</u>	<u>111</u>	<u>2</u>	
		<u>27.39</u>	<u>332</u>	<u>111</u>	<u>2</u>	
		<u>28.93</u>	<u>333</u>	<u>112</u>	<u>2</u>	
		<u>30.55</u>	<u>332</u>	<u>112</u>	<u>2</u>	
		<u>32.11</u>	<u>332</u>	<u>112</u>	<u>2</u>	
		<u>33.63</u>	<u>332</u>	<u>111</u>	<u>2</u>	
		<u>35.05</u>	<u>330</u>	<u>111</u>	<u>2</u>	
		<u>36.43</u>	<u>330</u>	<u>111</u>	<u>2</u>	
Total						
Average						

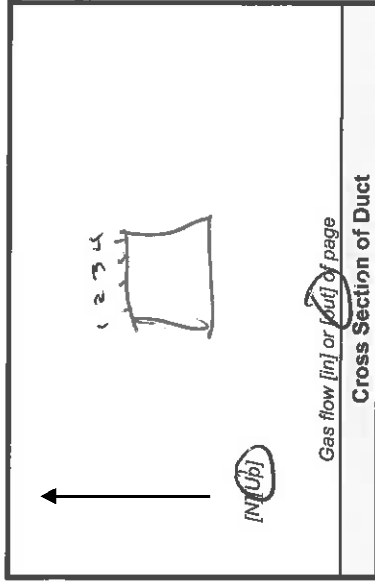
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	Big Rivers
Plant	Owensboro
Location	ESP #1
Date	7-15-11
Project No	3648
Meter Reader	TG



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-16.5
Ambient Temp (°F)	85
Start Time	1404
Stop Time	1539

16:12

94434
Sample Train A Unspiked Trap 207191-A

Trap ID	94434	Meter ID	1	Yd	10145
Pre Leak Check	1000	ipm @	10		(in. Hg)
Post Leak Check	1000	ipm @	6		(in. Hg)

Sample Train B Spiked Trap 207191-B

Trap ID	94230	Meter ID	1	Yd	99107
Pre Leak Check	1000	ipm @	10		(in. Hg)
Post Leak Check	1000	ipm @	8		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	0.5	1.56	333	98	2	
7.5		3.08	333	99	2	
11.25		4.60	333	101	2	
15		6.17	332	102	2	
18.75		7.70	332	103	2	
22.5		9.20	332	104	2	
26.25		10.78	337	106	2	
30		12.31	333	107	2	
33.75		13.70	334	109	2	
37.5		15.24	334	110	2	
41.25		16.98	333	110	2	
45		18.50	334	111	2	
Total		97.35	8005	2621		
Average		333.46	333.46	109.21		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	0.5	1.42	333	99	2	
7.5		2.87	333	101	2	
11.25		4.32	333	102	2	
15		5.81	332	104	2	
18.75		7.30	332	105	2	
22.5		8.71	332	106	2	
26.25		10.53	333	106	2	
30		12.01	333	108	2	
33.75		13.48	334	110	2	
37.5		14.85	334	111	2	
41.25		16.28	333	111	2	
45		17.78	334	112	2	
Total		36.61	8005	2647		
Average		333.46	333.46	110.29		

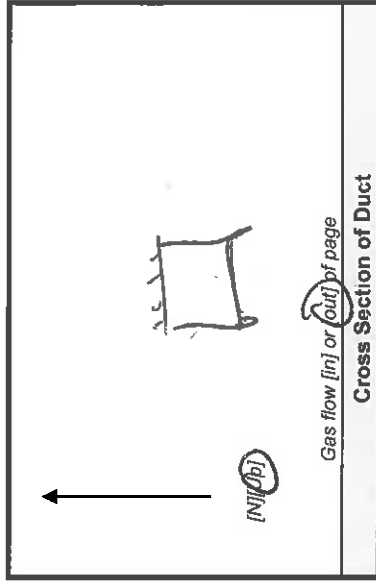
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	BILB PUMERS
Plant	Owensboro, KY
Location	ESP #1
Date	7-15-11
Project No.	3048
Meter Reader	TG



Barometric (in. Hg)	29.50
Static (inH ₂ O)	-11.65
Ambient Temp (°F)	85
Start Time	14:04
Stop Time	15:34

Sample Train A Unspiked Trap 207191-A

Trap ID	94434	Meter ID	7	Yd	1.0145
Pie Leak Check		lpm @	10		(in. Hg)
Post Leak Check		lpm @	6		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		∅				
Elapsed Time						
48.75	0.5	20.09	334	111	2	
52.5	1	21.61	334	112	2	
56.25	1	23.19	334	112	2	
60	1	24.75	333	112	2	
63.75	1	26.27	334	112	2	
67.5	1	27.75	334	113	2	
71.25	1	29.27	334	113	2	
75	1	30.94	334	114	2	
78.75	1	32.61	334	115	2	
82.5	1	34.19	334	115	2	
86.25	1	35.77	334	115	2	
90	1	37.35	334	115	2	
Total						
Average						

Sample Train B Spiked Trap 207191-B

Trap ID	944236	Meter ID	7	Yd	.99167
Pie Leak Check		lpm @	10		(in. Hg)
Post Leak Check		lpm @	8		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		∅				
Elapsed Time						
48.75	0.5	19.30	334	113	2	
52.5	1	20.82	334	113	2	
56.25	1	22.34	334	113	2	
60	1	23.90	333	113	2	
63.75	1	25.52	334	113	2	
67.5	1	27.14	334	114	2	
71.25	1	28.66	334	115	2	
75	1	30.24	334	115	2	
78.75	1	31.82	334	115	2	
82.5	1	33.34	334	116	2	
86.25	1	34.86	334	116	2	
90	1	36.61	334	116	2	
Total						
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

Particulate

TESTING TYPE:

RUN NO. 1

METHOD NO. SP1000

Page 1 of 3

Client	Wke		
Plant	DB Wilson		
Location	ESP2		
Date	7-15-11	Project No.	3048
Tester Operator	P.C.		
Probe Operator	C.S.		
Meter ID	MV9	Yd	1989 ()
ΔH@	1.850	KF	2.57
Pre Leak Check	00	(cfm) [lpm] @	10 (inHg)
Post Leak Check	000	(cfm) [lpm] @	5 (inHg)
Barometer (inHg)	29.56	Water (ml) (g)	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inHg, O)	-15.0	Total Vt.	
Probe ID	AE5-12-2	Liner Type	+OH
Nozzle ID	.250	Nozzle Dia (in)	1.050
Filter ID	12148		
Train ID	2912	Train Type	IFAP
Duct Dim. (in)	162" x 162"	Port Length (in)	43"
Start Time	8:08	Stop Time	9:39

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:15	.28	.7	636.01	325	320	320	60	88	87	9	79	
1-2	6:30	.28	.7	638.58	327	319	321	60	89	88	9	79	
3	9:45	.29	.7	640.15	326	319	321	60	90	88	9	78	
4	13:00	.3	.8	641.93	326	319	320	59	91	89	10	79	
5	16:15	.3	.8	643.62	328	318	320	59	94	91	10	79	
6	19:30	.31	.8	645.49	327	321	320	58	93	91	10	78	
7	22:45	.32	.8	647.24	328	324	320	59	96	92	10	78	
2-1	26:00	.32	.8	649.51	328	324	321	58	97	94	10	78	
2	29:15	.32	.8	650.84	328	324	320	60	98	94	10	79	
3	32:30	.32	.8	652.62	328	323	319	61	97	95	10	80	
4	35:45	.3	.8	654.71	327	323	321	61	100	96	10	80	
5	39:00	.29	.7	656.21	327	322	321	60	100	96	10	81	
Total				657.67	327	322	321	60	1135	1101	10	81	
Average				657.67	327	322	321	60	1135	1101	10	81	

Circle correct bracketed [] units
Train Typs denotes impingers, knockouts, etc.


AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

RUN NO. _____

TESTING TYPE: Particulate

METHOD NO. SB/2002

Page 2 of 3

Client	Wike		
Plant	DB Wilson		
Location	ESP2		
Date	7-15-11	Project No.	3048
Meter Operator	P.L.		
Probe Operator	C.S.		
Meter ID	M79	Yd	1.9891
ΔH@	1.856	KF	2.7
Pre Leak Check	.000	(cfm) [lpm] @	10 (inHg)
Post Leak Check	.200	(cfm) [lpm] @	15 (inHg)
		First point all the way (in) (out) Gas flow (in) (out) of page	
Cross Section of Duct			

Barometric (inHg)	27.56	Water (ml) [g]	
Ambient Temp (°F)	82	Silica gel (g)	
Static (inH ₂ O)	-.52	Total Vlc	
Probe ID	AE-5-12-2	Liner Type	tefl
Nozzle ID	.250	Nozzle Dia (in)	.050
Filter ID	12148		
Train ID	IA2	Train Type	Imp
Duct Dim. (in)	16.2 x 16.2	Port Length (in)	43
Start Time	8:06	Stop Time	

Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6		47:15	.3	.8	655.32	328	320	320	60	103	99	10	90	
7		48:30	.51	.8	659.78	328	319	321	60	102	97	10	80	
3-1		49:45	.33	.9	671.34	329	322	319	61	103	100	10	81	
2		52:00	.33	.9	689.15	328	322	320	62	105	100	10	81	
3		55:15	.24	.9	664.88	328	322	320	62	105	101	10	81	
4		58:30	.34	.9	665.12	326	322	321	62	104	100	10	81	
5		61:45	.32	.9	666.73	327	323	321	62	104	101	10	82	
6		65:00	.32	.9	668.25	327	323	321	62	104	101	10	82	
7		68:15	.3	.8	669.35	327	324	321	62	104	101	10	82	
4-1		71:30	.28	.8	671.84	325	321	321	62	105	101	10	82	
2		74:45	.28	.8	673.72	320	320	321	60	106	103	10	83	
3		78:00	.28	.8	675.58	318	320	321	60	108	105	10	83	
Total				10.2	675.58	318	320	321	60	108	105	10	83	
Average				10.2	675.58	318	320	321	60	108	105	10	83	

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: Particulate

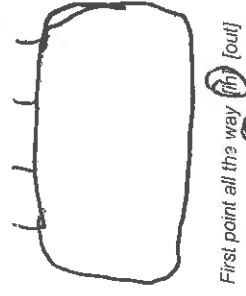
RUN NO. 1

METHOD NO. 5B1202

Page 3 of 3

Client	WKE	
Plant	DB Wilson	
Location	ESP2	
Date	7-15-1	Project No. 3648
Meter Operator	P.L.	
Probe Operator	C.S.	
Meter ID	M-9	Yd
Yd	4821	Pitot Cp
ΔH@	1.856	KT
KT	2.7	Leak check
Pre Leak Check	ps	(cfm) [ppm] @ 10
Post Leak Check	ps	(cfm) [ppm] @ 15

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	-15.0	Total Vic	
Probe ID	AE5-12-2	Liner Type	tcf/
Nozzle ID	1250	Nozzle Dia (in)	1.25
Filter ID	12148		
Train ID	1872	Train Type	F-P
Duct Dim. (in)	102" x 102"	Port Length (in)	43
Start Time	8:08	Stop Time	9:39



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Gas flow in (in) out (in) of page

Cross Section of Duct	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	D3M Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	4-4	0.31	0.8	677.23	317	320	318	60	110	107	10	84	
	5	0.34	0.9	679.21	315	318	318	61	111	107	10	84	
	6	0.35	0.9	680.64	312	316	320	62	111	107	10	84	
	7	0.35	0.9	682.47	311	316	322	62	112	107	10	85	
Total			9.5	479.5	325.5								874 428
Average			7.8		324.68								24.101 41.101

Circles correct bracketed [] units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

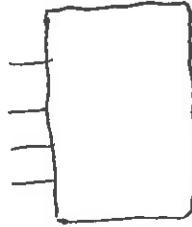
RUN NO. 2

TESTING TYPE: Particulate

METHOD NO. 5B1202

Page 1 of 3

Client	Wike		
Plant	DB Wilson		
Location	ESP		
Date	7-15-11	Project No.	3648
Meter Operator	P.C.		
Probe Operator	C.S.		
Meter ID	M-9	Yd	989
ΔH@	1.856	Kf	2.7
Pre Leak Check	0.42	[cfm] [ppm] @	19
Post Leak Check	0.42	[cfm] [ppm] @	19
Pilot Cp	84	Leak check	<input checked="" type="checkbox"/>



First point all the way (in) (out) of page
Gas flow (in) (out) of page

Barometer (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	85	Silica gel (g)	
Static (inH ₂ O)	-15.2	Total V/c	
Probe ID	AE5-7.7	Liner Type	refl
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	IB7	Train Type	Imp
Train ID	IB7	Port Length (in)	43
Duct Dim. (in)	102 x 102		
Start Time	11:15	Stop Time	12:46

Traverse Point	(Min/Point) Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:15	.28	.8	690.93	311	322	320	60	108	108	10	79	
2	6:30	.28	.8	695.01	312	323	321	60	108	109	10	79	
3	9:45	.28	.8	697.42	312	323	318	59	110	108	10	80	
4	13:00	.3	.8	699.64	310	325	318	59	109	108	10	81	
5	16:15	.37	1.0	701.47	307	324	318	59	109	108	10	81	
6	19:30	.35	.9	703.25	303	324	320	58	109	109	10	81	
7	22:45	.35	.9	705.15	302	324	318	58	110	109	10	81	
7-1	26:00	.33	.9	706.97	303	324	318	58	111	108	10	82	
2	29:15	.33	.9	709.78	303	323	319	62	111	108	10	82	
3	32:30	.31	.8	710.47	303	323	319	62	112	109	10	81	
4	35:45	.32	.9	712.17	303	323	319	61	113	109	10	82	
5	39:00	.3	.8	714.08	303	323	320	61	113	109	10	82	
Total			10.7	52.35	3072				1323	1300			
Average			1.81	364.54					116.93	119.32			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 2

METHOD NO. 5B1702

Page 2 of 3

Client	wke		
Plant	DB Wilson		
Location	ESP		
Date	Project No.	3648	
Meter Operator	P.C.		
Probe Operator	L.B.		
Meter ID	M-4	Yd	Pitot Cp
ΔH@	1.856	Kf	Leak check
Pre Leak Check	0.22	[6pm] [rpm] @	18 (inHg)
Post Leak Check	0.22	[6m] [rpm] @	19 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	85	Silica gel (g)	
Static (inH ₂ O)	-15.2	Total Vic	
Probe ID	AE5-12-2	Liner Type	tefl
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	RAMM (112)		
Train ID	EB7	Train Type	Temp
Duct Dim. (in)	102" x 162"	Port Length (in)	
Start Time		Stop Time	



Gas flow [in] of page
 First point all the way [in] of page

Cross Section of Duct	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes	
														Elapsed Time
	2-6	42.15	.31	.8	715.87	303	320	320	60	114	110	10	82	
	7	45.30	.3	.8	717.67	303	323	321	60	114	110	10	83	
	3-1	48.45	.3	.8	719.32	303	324	322	60	113	110	10	83	
	2	52.00	.31	.8	721.28	302	323	322	60	115	111	10	83	
	3	55.15	.3	.8	723.64	303	323	322	60	115	111	10	83	
	4	58.30	.3	.8	724.89	303	323	320	59	115	112	10	83	
	5	61.45	.28	.8	726.71	304	323	320	59	115	113	10	83	
	6	65.00	.29	.8	728.10	304	323	320	59	115	113	10	83	
	7	68.15	.29	.8	730.31	304	323	320	59	115	113	10	83	
	4-1	71.30	.3	.8	732.12	303	323	321	58	114	112	10	83	
	2	74.45	.31	.8	733.92	303	324	321	58	114	112	10	83	
	3	78.00	.31	.8	735.72	303	324	320	61	114	112	10	83	
Total				9.6	52.35	3638			1373	1198	1338			
Average				1.84	307.54				116.93	110.32				

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 2 Page 3 of 3

METHOD NO. 5B1202

Client <u>Wke</u>	Water [gal] [g] <u>29.56</u>	Barometric (inHg) <u>29.56</u>	Silica gel (g) <u>85</u>
Plant <u>DB Wilson</u>	Static (inH ₂ O) <u>-15.2</u>	Ambient Temp (°F) <u>85</u>	Total Vlc <u>727</u>
Location <u>ESPL</u>	Probe ID <u>AE5-12-2</u>	Static (inH ₂ O) <u>-15.2</u>	Liner Type <u>727</u>
Date <u>7-15-11</u>	Nozzle ID <u>.250</u>	Probe ID <u>AE5-12-2</u>	Nozzle Dia. (in) <u>.250</u>
Project No. <u>P.C.</u>	Filter ID <u>12107</u>	Nozzle ID <u>.250</u>	Train Type <u>Imp</u>
Operator <u>C.S.</u>	Train ID <u>FB7</u>	Filter ID <u>12107</u>	Port Length (in) <u>43.0</u>
Meter ID <u>M-9</u>	Duct Dim. (in) <u>102" x 162"</u>	Train ID <u>FB7</u>	
ΔH@ <u>1.856</u>		Duct Dim. (in) <u>102" x 162"</u>	
Pilot Cp <u>.84</u>		Filter ID <u>12107</u>	
Leak check <input checked="" type="checkbox"/>		Train ID <u>FB7</u>	
Pre Leak Check <u>0.00</u>		Duct Dim. (in) <u>102" x 162"</u>	
Post Leak Check <u>0.00</u>			



First point all the way in [out]
Gas flow [in] [out] of page

Start Time _____ Stop Time _____

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [L] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-1	8:15	.33	.9	737.52	303	320	320	60	115	112	10	84	
5	8:30	.54	.9	739.43	304	320	320	60	116	113	10	85	
6	8:45	.24	.9	741.44	305	323	319	60	116	113	10	85	
7	9:00	.35	1.0	743.08	305	323	319	59	116	113	10	85	
Total													
Average													
<u>3.7</u> <u>52.35</u> <u>1217</u> <u>354.51</u> <u>416.3</u> <u>451</u> <u>110.32</u>													

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

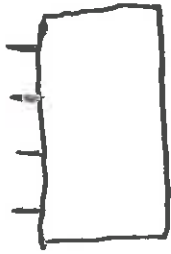
RUN NO. 3

METHOD NO. 5B1202

Page 1 of 3

Client	Wke		
Plant	DB Wilson		
Location	ESP		
Date	7-15-11	Project No.	3648
Meter Operator	P.C.		
Probe Operator	C.S.		
Meter ID	M-9	Yd	84
ΔH@	1.856	Kf	✓
Pre Leak Check	0.1	[ppm] [ppm] @	17 (inHg)
Post Leak Check	0.1	[ppm] [ppm] @	17 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	85.102	Silica gel (g)	
Static (inH ₂ O)	-15.2	Total Vlc	
Probe ID	AE5-2-2	Liner Type	fe1
Nozzle ID	250	Nozzle Dia (in)	.250
Filter ID	12141		
Train ID	TB	Train Type	Imp
Duct Dim. (in)	102" x 102"	Port Length (in)	43.0



Start Time	Cross Section of Duct										Stop Time	
	Start Time	14:04	Stop Time	16:12								
Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Auxiliary Temp (°F)	Pump Vacuum (inHg)	Notes
3:15					320	320						
1-1	0.37	1.0	748.12	313	323	320	62	105	105	82	7	
2	0.37	1.0	750.23	313	323	320	62	105	105	83	7	
3	0.37	1.0	751.35	313	322	320	62	105	105	83	7	
4	0.38	1.0	753.98	313	322	323	62	106	106	83	8	
5	0.37	1.0	754.89	312	322	320	62	107	105	83	8	
6	0.39	1.0	756.59	312	324	320	61	109	106	83	8	
7	0.39	1.0	758.39	312	324	320	61	111	107	84	9	
8-1	0.39	1.0	760.22	312	323	320	60	112	109	85	9	
2	0.37	1.0	762.09	313	323	321	60	112	109	85	9	
3	0.38	1.0	764.35	313	323	320	60	112	108	86	9	
4	0.42	1.1	765.62	313	324	319	59	112	108	86	9	
5	0.39	1.0	767.45	313	324	319	59	113	108	86	9	
Total			50.8	313	324	320	58	113	109	86	7	
Average			37.2	310	128	128	128	128	128	128	128	

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

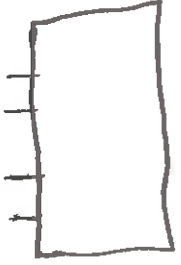
General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 3 Page 3 of 3

METHOD NO. 5B1202

Client	WKE			Barometric (inHg)	29.56	Water (ml)	lgj
Plant	DB Wilson			Ambient Temp (°F)	102	Silica gel (g)	
Location	ESP			Static (inH ₂ O)	-15.2	Total Vlc	
Date	7-15-11			Probe ID	AE5-12-2	Liner Type	tef
Meter Operator	P.L.			Nozzle ID	250	Nozzle Dia (in)	.250
Probe Operator	P.L.			Filter ID	12.14	Train Type	-
Meter ID	M-9	Yd	9991	Pilot Cp		Port Length (in)	4 3/4
ΔH@	1856	KF	7.7	Leak check	✓		
Pre Leak Check	0.22		17	(inHg)			
Post Leak Check	0.42		17	(inHg)			



First point all the way **(out)**
Gas flow (in) **(up)** of page

Cross Section of Duct

Start Time	Stop Time	Notes									
14:04											
Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)
3:15											
4-4	81.15	.41	1.1	793.41	307	320	60	117	113		
5	84.30	.42	1.1	794.68	307	320	60	117	113		
6	87.46	.42	1.1	796.59	306	321	61	117	114		
7	91.00	.42	1.1	798.92	306	321	61	118	114		
Total											
Average											

4.4
1.25

20.8
1726
310.80

469 454
112.86 109.61

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. **3644**

Page **1** of **1**

Client	Big Rivers		
Agent	DB Wilson		
Location	ESP 2		
Date	7/14/11	Unit	
Operator	BC		

Run No.	1				
Method No.	CB202	Unit ID		Site No.	12142
	Contents	Contents (g)	Dist (g)	Total (g)	Notes
Impinger No. 1	Empty	488.0	581.0	-50	
Impinger No. 2	DI	598.0	676.0		
Impinger No. 3	Empty	600.0	627.0		
Impinger No. 4	Silica	907.0	938.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2				
Method No.	CB202	Unit ID		Site No.	12127
	Contents	Contents (g)	Dist (g)	Total (g)	Notes
Impinger No. 1	Empty	472.0	608.0	-50	
Impinger No. 2	DI	742.0	762.0		
Impinger No. 3	Empty	620.0	629.0		
Impinger No. 4	Silica	940.0	951.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3				
Method No.	CB202	Unit ID		Site No.	12141
	Contents	Contents (g)	Dist (g)	Total (g)	Notes
Impinger No. 1	Empty	453.0	545.6	-50	
Impinger No. 2	DI	591.0	569.2		
Impinger No. 3	Empty	603.0	614.4		
Impinger No. 4	Silica	935.0	948.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 1

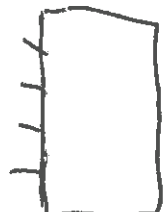
TESTING TYPE: Hcl

METHOD NO. 26

Page 1 of 1

Client	<u>Urke</u>	
Plant	<u>DB Wilson</u>	
Location	<u>ESP #2</u>	
Date	<u>7-14-11</u>	Project No. <u>3648</u>
Meter Operator	<u>CS</u>	
Probe Operator	<u>P.C</u>	
Meter ID	<u>M-3</u>	Yrd <u>1995</u>
AH@	<u>1.917</u>	KF <u>3.021</u>
Pre Leak Check	<u>1000</u>	[cfm] [ppm] @ <u>17</u> (inHg)
Post Leak Check	<u>1000</u>	[cfm] [ppm] @ <u>15</u> (inHg)

Barometric (inHg)	<u>29.51</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>80</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-15.2</u>	Total Vlc	
Probe ID	<u>AES-109</u>	Liner Type	<u>12Z</u>
Nozzle ID	<u>1250</u>	Nozzle Dia (in)	<u>1.250</u>
Filter ID	<u>N/A</u>	Train Type	<u>Free</u>
Train ID	<u>1B-10</u>	Port Length (in)	<u>43"</u>
Duct Dim. (in)	<u>16" x 16"</u>		



First point all the way up [out]

Gas flow [in] [out] of page

Start Time	<u>10:09</u>	Stop Time	<u>12:09</u>
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-	10	10	1.36	1.0	175.80	310	255	255	65	102	100	6	N/A	
		20	1.36	1.0	186.63	310	256	259	63	106	100	6		
		30	1.36	1.0	192.15	310	258	258	57	106	100	6		
		40	1.36	1.0	197.65	309	260	259	54	105	100	6		
		50	1.36	1.0	203.14	311	251	253	54	106	100	6		
		60	1.36	1.0	208.64	310	254	251	53	106	100	6		
		70	1.36	1.0	214.14	310	254	251	53	106	100	6		
		80	1.36	1.0	219.52	312	254	251	53	106	100	6		
		90	1.36	1.0	225.00	311	255	252	54	105	100	6		
		100	1.36	1.0	230.53	313	255	255	54	105	99	6		
		110	1.36	1.0	236.00	313	252	254	54	104	97	6		
		120	1.36	1.0	241.55	312	251	254	55	102	95	6		
Total					2472	312	252	252	50	101	95			
Average			1.602	1.02	67.21	312	252	252	150	101	101			

Circles around bracketed [] units
Tr- in Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Hcl

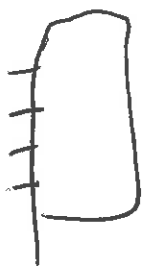
RUN NO. 0

METHOD NO. 26

Page (1) of 1

Client	<u>WKE</u>	
Plant	<u>DB BY 15m</u>	
Location	<u>EST #2</u>	
Date	<u>7-19-11</u>	Project No. <u>3648</u>
Meter Operator	<u>C.S</u>	
Probe Operator	<u>P.C</u>	
Meter ID	<u>M-5</u>	Pitot Cp <u>1.84</u>
ΔH@	<u>1.917</u>	Kf <u>2.8</u>
Pre Leak Check	<u>1.00</u>	[cfm] [ppm] @ <u>16</u> (inHg)
Post Leak Check	<u>1.00</u>	[cfm] [ppm] @ <u>14</u> (inHg)

Barometric (inHg)	<u>29.51</u>	Water (ml) [g]	
Ambient Temp (°F)	<u>92</u>	Silica gel (g)	
Static (inHg)	<u>-15.2</u>	Total V/c	
Probe ID	<u>AES-10-</u>	Liner Type	<u>Teel</u>
Nozzle ID	<u>1.350</u>	Nozzle Dia (in)	<u>.750</u>
Filter ID	<u>N/A</u>		
Train ID	<u>ID</u>	Train Type	<u>Free</u>
Duct Dim. (in)	<u>16.2 x 16.2</u>	Port Length (in)	<u>45</u>



First point all the way out [out]
Gas flow [in] [out] of page

Start Time	<u>13:43</u>	Stop Time	<u>15:43</u>
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Traverse Point	Min/Point	Elapsed Time	Velocity		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
			Pressure ΔP (inH ₂ O)	Pressure											
	10														
		10	1.38		1.1	258.06	309	750	252	62	102	98	6	N/A	
		20	1.38		1.1	263.76	311	254	254	59	103	99	6		
		30	1.38		1.1	269.41	312	251	250	57	103	99	6		
		40	1.36		1.1	275.11	312	251	250	55	104	102	6		
		50	1.38		1.1	280.77	312	250	250	55	104	100	6		
		60	1.38		1.1	286.13	312	250	250	56	104	100	6		
		70	1.38		1.1	291.49	311	250	254	55	105	100	6		
		80	1.38		1.1	297.20	311	250	254	54	105	100	6		
		90	1.38		1.1	304.44	311	251	253	55	105	100	6		
		100	1.38		1.1	308.71	312	254	250	55	106	100	6		
		110	1.38		1.1	314.45	312	250	250	56	106	100	6		
		120	1.38		1.1	320.17	312	250	250	50	107	100	6		
Total						671.0	311				1251	1196			
Average			1.61		1.1		311.1				1061	101			

col 291.49

Circle correct bracketed [] units
Train Type de notes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

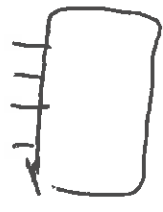
TESTING TYPE: Hel

METHOD NO. 26

RUN NO. 3

Page 1 of 1

Client: <u>WHE</u>		Water [ml] [g]: <u>29.51</u>	
Plant: <u>DB Wilson</u>		Silica gel (g): <u>90</u>	
Location: <u>ESP 2</u>		Total Vlc: <u>-15.0</u>	
Date: <u>7-14-11</u>		Probe ID: <u>AES-109</u>	
Project No.: <u>3648</u>		Nozzle ID: <u>DSU</u>	
Meter Operator: <u>GS</u>		Filter ID: <u>N/A</u>	
Probe Operator: <u>PC</u>		Train ID: <u>FB-10</u>	
Meter ID: <u>M-5</u>	Yd: <u>.9953</u>	Pitot Cp: <u>180</u>	
ΔH@: <u>1.917</u>	Kf: <u>2.8</u>	Leak check: <u>✓</u>	
Pre Leak Check: <u>1000</u>	[cfm] [lpm] @: <u>16</u>	(inHg)	
Post-Leak Check: <u>1000</u>	[cfm] [lpm] @: <u>10</u>	(inHg)	



Start Time: 16:31 Stop Time: 18:31

Traverse Point	Min/Point	Velocity Pressure		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		AP (inH ₂ O)	AP (inH ₂ O)											
	16	137	1.0	323.45	310	280	284	60	95	92	92	4	N/A	
	20	37	1.0	334.75	311	283	284	59	96	97	97	4		
	30	37	1.0	339.90	311	280	284	56	97	98	98	4		
	40	37	1.0	345.40	312	281	284	54	98	98	98	4		
	50	37	1.0	350.80	312	281	284	53	98	98	98	4		
	60	37	1.0	356.35	312	280	284	50	99	91	91	4		
	70	37	1.0	361.90	311	280	284	53	99	91	91	4		
	80	37	1.0	367.25	311	281	280	54	99	92	92	4		
	90	37	1.0	372.60	310	281	280	55	100	93	93	4		
	100	37	1.0	378.29	309	280	281	56	101	94	94	4		
	110	37	1.0	384.28	309	281	280	57	102	95	95	4		
	120	37	1.0	389.80	309	280	280	57	103	96	96	4		
Total				6633	309				1187					
Average				6633	309				1187					

Circle correct bracketed [] units
 - in Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3654E

Page 1 of 1

Client	BIG DICKS		
Plant	DB Gilson		
Location	ESP 2		
Date	7/14/11	Time	
Operator	BL		

Run No.	1				
Method No.	26	Train ID		Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	736.0	874.0	70	
Impinger No. 2	H2SO4	741.0	761.0		
Impinger No. 3	EMPTY	637.0	640.0		
Impinger No. 4	Silica	976.0	992.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2				
Method No.	26	Train ID		Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	701.0	842.0	-50	
Impinger No. 2	H2SO4	627.0	645.0		
Impinger No. 3	Empty	576.0	580.0		
Impinger No. 4	Silica	846.0	865.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3				
Method No.	26	Train ID		Filter No.	NA
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	739.0	882.0	-50	
Impinger No. 2	H2SO4	751.0	766.0		
Impinger No. 3	Empty	643.0	648.0		
Impinger No. 4	Silica	991.0	1005.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

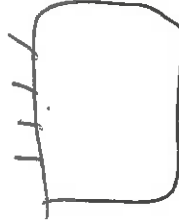
RUN NO. 1

METHOD NO. 29

Page 1 of 3

Client	<u>WKE</u>		
Plant	<u>DB Wilson</u>		
Location	<u>ESP-2</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>P.C</u>		
Probe Operator	<u>C.S</u>		
Meter ID	<u>M-9</u>	Yd	<u>989</u>
ΔH@	<u>1.856</u>	Kf	<u>2.75</u>
Pre Leak Check	<u>0.00</u>	[ppm]	@ <u>10</u> (inHg)
Post Leak Check	<u>0.00</u>	[ppm]	@ <u>10</u> (inHg)

Barometric (inHg)	<u>29.51</u>	Water [mil] [g]	
Ambient Temp (°F)	<u>82</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-15.2</u>	Total Vc	
Probe ID	<u>AE 5-12-2</u>	Liner Type	<u>Tefl</u>
Nozzle ID	<u>250</u>	Nozzle Dia. (in)	<u>1.28</u>
Filter ID	<u>N/A</u>		
Train ID	<u>FB15</u>	Train Type	<u>Imp</u>
Duct Dim. (in)	<u>10.2" x 10.2"</u>	Port Length (in)	<u>4.3"</u>



First point all the way Up (in) Out (out)
Gas flow (in) (out) of page

Cross Section of Duct

OSC

Traverse Point	Min/Point Elapsed Time	Velocity Pressure		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		AP (inH ₂ O)	ΔP (inH ₂ O)											
1-1	4.5	1.58	1.0	402.50	312	269	260	62	97	97	6	N/A		
2	9	1.38	1.0	404.97	312	260	259	62	97	97	6			
3	13.5	1.4	1.1	407.34	312	253	259	61	98	97	6			
4	18	1.41	1.1	409.92	312	255	259	60	98	97	6			
5	22.5	1.4	1.1	412.39	312	256	258	60	100	97	6			
6	27	1.4	1.1	414.94	312	255	259	61	101	97	6			
7	31.5	1.41	1.1	417.49	313	254	259	61	101	98	6			
2-1	36	1.41	1.1	419.87	314	252	256	61	101	97	6			
2	40.5	1.4	1.4	422.35	315	255	256	60	101	98	6			
3	46	1.4	1.4	424.85	316	255	255	59	101	97	6			
4	49.5	1.4	1.4	427.48	316	255	254	57	101	97	6			
5	54	1.4	1.4	429.84	316	255	255	57	101	98	6			
Total	126	19.47	14.2	432.34	316	255	255	57	101	98	6			
Average		0.69	1.31	69.85	316	255	255	57	101	98	6			
				1197	1167									
				110.2	96.64									
				98.9	EA									

Circle correct bracketed [] units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. _____

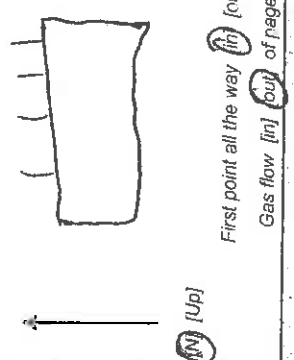
TESTING TYPE: Metals

METHOD NO. 29

Page 2 of 3

Client	w/ke		
Plant	DB Wilson		
Location	D		
Date	7-14-11	Project No.	31048
Meter Operator	P.C.		
Probe Operator	C.S.		
Meter ID	M-9	Yd	4891
ΔH@	1.856	Kf	2.75
Pre Leak Check	[cfm] [ppm] @	Pilot Cp	.84
Post Leak Check	[cfm] [ppm] @	Leak check	✓

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	82	Silica gel (g)	
Static (inH ₂ O)	-15.2	Total Vic	
Probe ID		Liner Type	tefl
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	N/A	Train Type	Imp
Duct Dim. (in)	1.015	Port Length (in)	



Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	.53	1.4	434.86	317	254	255	58	101	97	6	N/A	
7	.62	1.4	437.23	316	256	257	56	101	97	6		
3-1	.52	1.4	439.83	316	256	256	57	101	97	6.1		
2	.51	1.4	442.54	316	254	256	57	101	97	6.2		
3	.52	1.4	444.85	316	255	256	57	101	97	6.2		
4	.52	1.4	447.36	316	255	257	57	101	97	6.2		
5	.53	1.4	449.81	316	255	258	57	101	97	6.2		
6	.5	1.4	451.23	316	255	258	57	101	96	6.2		
7	.50	1.4	453.98	316	255	257	58	101	96	6.2		
4-1	.53	1.4	457.38	316	255	257	58	101	96	6.2		
2	.53	1.4	459.42	316	255	258	58	100	96	6.2		
3	.62	1.4	462.36	316	255	257	58	100	96	6.2		
Total		16.8		373				1210	1159			
Average		(1.31)		(315)				(100.2)	(96.64)			

Circle correct bracketed [] units
Train T;pa denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. _____

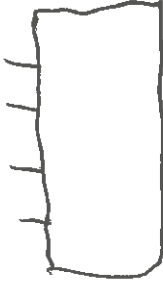
TESTING TYPE: Metals

METHOD NO. 29

Page 3 of 3

Client	W. KC.	
Plant	DA W. 50A	
Location		
Date	7-14-11	Project No. 30648
Meter Operator	P.C.	
Probe Operator	C.S.	
Meter ID	M-9	Yd .9891
ΔH@	1-856	Kf
Pre Leak Check	[cfm] [ppm] @	Pilot Cp .84
Post Leak Check	[cfm] [ppm] @	Leak check <input checked="" type="checkbox"/>

Water [ml] [g]	
Silica gel (g)	82
Total Vlc	-15.2
Liner Type	Tefl
Nozzle Dia (in)	.250
Filter ID	N/A
Train ID	FBIS
Duct Dim. (in)	
Start Time	
Stop Time	



250 250
Gross Section of Duct

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impingers:		DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes	
							Outlet Temp (°F)	Inlet Temp (°F)						
4-4	0.53	1.4	464.82	316	255	258	58	100	95	95	6.2	N/A	/	
5	0.54	1.5	467.16	316	255	257	58	99	95	6.2				
6	0.52	1.4	469.64	317	255	257	58	100	95	6.2				
7	0.52	1.4	472.35	316	255	258	57	100	95	6.2				
Total	19.47	5.7		1265										
Average	0.69	1.31		315										

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

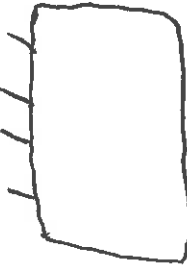
TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 3

Client	<u>WKR</u>			
Plant	<u>DB Wilson</u>			
Location	<u>ESP</u>			
Date	<u>7-14-11</u>	Project No.	<u>3648</u>	
Meter Operator	<u>P.C</u>			
Probe Operator	<u>C.S</u>			
Meter ID	<u>M-9</u>	Yd	<u>9891</u>	Pilot Cp. <u>84</u>
$\Delta H@$	<u>1.856</u>	Kf	<u>2.75</u>	Leak check <input checked="" type="checkbox"/>
Pre Leak Check	<u>100</u>	[cfm] [lpm] @	<u>10</u>	(inHg)
Post Leak Check	<u>100</u>	[cfm] [lpm] @	<u>10</u>	(inHg)

Barometric (inHg)	<u>29.57</u>	Water [ml] [g]	
Ambient Temp. (°F)	<u>82</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-15.2</u>	Total Vic	
Probe ID	<u>AES-12-2</u>	Liner Type	<u>tefl</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>N/A</u>		
Train ID	<u>FB15</u>	Train Type	<u>Tap</u>
Duct Dim. (in)	<u>6.2" x 6.2"</u>	Port Length (in)	<u>45"</u>



First point all the way (in) out
Gas flow [in] (out) of page

Gross Section of Duct

250 250

Start Time	<u>13:43</u>	Stop Time	<u>15:58</u>
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Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impings: Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inH ₂ O)	Auxiliary Temp (°F)	Notes
1-1	4.5	.38	1.0	481.64	311	255	258	61	98	96	6	N/A	
2	9	.38	1.0	484.08	311	255	259	61	100	97	6		
3	13.5	.39	1.1	486.59	311	256	258	61	102	97	6		
4	18	.39	1.1	489.09	311	256	259	60	104	98	6		
5	22.5	.38	1.0	491.59	311	255	259	60	107	100	6		
6	27	.39	1.1	494.09	311	255	258	60	109	102	6		
7	31.5	.38	1.0	496.59	310	255	258	60	109	102	6		
2-1	36	.36	1.0	499.11	311	255	258	60	110	103	6		
2	40.5	.38	1.0	501.64	311	255	257	60	110	103	6		
3	45	.39	1.1	504.16	311	255	259	60	110	104	6		
4	49.5	.4	1.1	506.67	311	255	258	60	109	103	6		
5	54	.39	1.1	509.15	311	255	258	60	108	102	6		
Total	126	16.585	12.6	70.67	379				1276	1207			
Average		.6641	1.22		313.43				107.93	100.04			

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

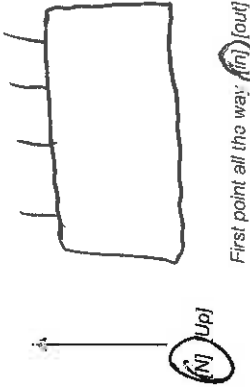
General Testing Data Sheet

RUN NO. 2 Page 2 of 3

TESTING TYPE: Metals

METHOD NO. 29

Client	INKE		Water [ml] [g]	
Plant	DB Wilson		Silica gel (g)	92
Location	ESP		Total Vic	-15.2
Date	7-14-11	Project No. 3648	Probe ID	ACS-12-7
Meter Operator	P.C.		Nozzle ID	.250
Probe Operator	C.S.		Filter ID	N/A
Meter ID	M-4	Yd	Train ID	IB15
ΔH@	1.956	Kf	Duct Dim. (in)	
Pre Leak Check	100	[cfm] [ppm] @		
Post Leak Check	100	[cfm] [ppm] @		
		Pilot Cp		
		Leak check		
		(inHg)		
		(inHg)		



Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6		58.5	.4	1.1	511.64	312	255	257	60	100	102	6	N/A	
7		63	.4	1.1	514.14	312	255	259	60	100	102	6		
3-1		67.5	.43	1.2	517.23	313	255	259	60	105	100	6		
2		72	.48	1.3	519.65	313	255	259	60	105	100	6		
3		76.5	.5	1.4	521.71	315	256	257	60	105	101	6		
4		81	.5	1.4	523.62	316	255	255	60	105	100	6		
5		86.5	.5	1.4	526.73	316	255	258	60	105	100	6		
6		90	.5	1.4	529.21	316	255	258	60	105	100	6		
7		94.5	.5	1.4	531.44	316	255	259	60	104	99	6		
4-1		99	.5	1.4	534.34	316	256	260	60	103	99	6		
1		103.5	.51	1.4	536.72	316	255	258	60	103	98	6		
3		108	.51	1.4	539.23	316	255	256	60	102	98	6		
Total					70.67	3777				1254	1199			
Average					4.22	313.43				101.93	100.04			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

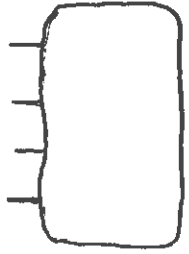
RUN NO. 2

METHOD NO. 29

Page 3 of 3

Client		<u>Wke</u>	
Plant		<u>DB Wilson</u>	
Location		<u>OSP</u>	
Date	<u>7-14-11</u>	Project No.	<u>3048</u>
Meter Operator <u>P.C.</u>			
Probe Operator <u>C.S.</u>			
Meter ID	<u>M-9</u>	Yd	<u>.9891</u>
ΔH@	<u>1.856</u>	KF	<u>2.75</u>
Pre Leak Check	<u>000</u>	[cfm] [ppm] @	<u>16</u> (inHg)
Post Leak Check	<u>100</u>	[cfm] [ppm] @	<u>17</u> (inHg)

Barometric (inHg)		Water [cm] [g]	
Ambient Temp (°F)	<u>82</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-15.2</u>	Total Vlc	
Probe ID	<u>ACS-122</u>	Liner Type	<u>tefl</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>N/A</u>	Train Type	<u>Imp</u>
Train ID	<u>IB15</u>	Port Length (in)	
Duct Dim. (in)			



First point all the way in [out] of page
Gas flow in [out] of page

Cross Section of Duct

Start Time	Stop Time	Notes	Auxiliary Temp (°F)	Pump Vacuum (inHg)	DGM Outlet Temp (°F)	DGM Inlet Temp (°F)	Impinger Outlet Temp (°F)	Filter Temp (°F)	Probe Temp (°F)	Stack Temp (°F)	Gas Sample Volume Initial [°] [l]	Orifice Setting ΔH (inH ₂ O)	Velocity Pressure ΔP (inH ₂ O)	Elapsed Time	Min/Point	Cross Section of Duct			
																Temp (°F)	Temp (°F)		
			<u>N/A</u>	<u>60</u>	<u>98</u>	<u>102</u>	<u>60</u>	<u>257</u>	<u>255</u>	<u>317</u>	<u>542.30</u>	<u>1.4</u>	<u>.51</u>	<u>112.5</u>					
				<u>60</u>	<u>97</u>	<u>107</u>	<u>60</u>	<u>257</u>	<u>255</u>	<u>317</u>	<u>544.21</u>	<u>1.4</u>	<u>.51</u>	<u>117</u>					
				<u>60</u>	<u>99</u>	<u>102</u>	<u>60</u>	<u>259</u>	<u>255</u>	<u>317</u>	<u>546.87</u>	<u>1.4</u>	<u>.51</u>	<u>121.5</u>					
				<u>60</u>		<u>102</u>	<u>60</u>	<u>259</u>	<u>255</u>	<u>317</u>	<u>549.32</u>	<u>1.4</u>	<u>.51</u>	<u>126</u>					
															<u>5.6</u>	<u>70.67</u>	<u>1268</u>	<u>408</u>	<u>395</u>
															<u>(1.22)</u>	<u>(1313.43)</u>	<u>(104.93)</u>	<u>(100.04)</u>	
Total																			
Average																			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 3

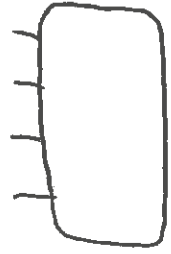
TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 3

Client	wke	
Plant	DB Wilson	
Location	ESP	
Date	7-14-11	Project No. 3648
Meter Operator	P.C.	
Probe Operator	C.S.	
Meter ID	M-9	Yd .989
ΔH@	1.856	KF 2.75
Pre Leak Check	1000	[cfm] [ppm] @ 13 (inHg)
Post Leak Check	1000	[cfm] [ppm] @ 13 (inHg)

Barometric (inHg)	29.51	Water (ml) [g]	
Ambient Temp (°F)	82	Silica gel (g)	
Static (inH ₂ O)	-15.2	Total Vlc	
Probe ID	ARS-12-2	Lineet Type	tefl
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	N/A		
Train ID	FB15	Train Type	Trap
Duct Dim. (in)	162" X 162"	Port Length (in)	13"



First point all the way (in) (out)
Gas flow (in) (out) of page

Start Time 16:43 Stop Time 18:58

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	.37	1.0	553.50	309	253	258	60	94	93	6	N/A	
2	9	.36	.9	558.61	309	256	260	60	94	93	6		
3	13.5	.37	1.0	561.13	309	256	260	60	95	93	6		
4	18	.38	1.0	563.66	308	255	256	60	96	92	6		
5	22.5	.38	1.0	566.17	308	255	260	60	96	93	6		
6	27	.38	1.0	568.65	308	254	257	59	97	93	6		
7	31.5	.37	1.0	571.14	307	255	259	57	98	93	6		
2-1	36	.37	1.0	573.63	308	255	258	60	98	93	6		
2	40.5	.38	1.0	576.37	308	255	258	59	98	93	6		
3	45	.38	1.0	578.54	307	255	257	59	99	93	6		
4	44.5	.38	1.0	580.61	308	255	257	58	100	94	6		
5	54	.41	1.1	583.58	312	256	260	60	100	94	6		
Total	176	12.71	12.0	7015	3701				1165	1117			
Average		6325	1.1	311.14					99.39	94.11			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

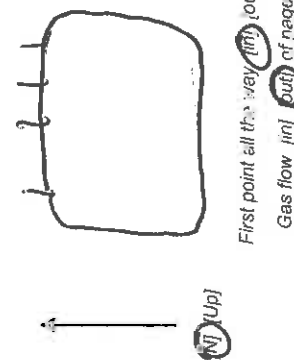
RUN NO. 3

METHOD NO. Z9

Page 2 of 3

Client	<u>hke</u>		
Plant	<u>DB Wilson</u>		
Location	<u>ESP</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>P.C.</u>		
Probe Operator	<u>L.S.</u>		
Meter ID	<u>M-9</u>	Yd	<u>.84</u>
ΔH@	<u>1.856</u>	KF	<u>2.75</u>
Pre Leak Check	<u>120</u>	[cfm] [ipm] @	<u>16</u> (inHg)
Post Leak Check	<u>1000</u>	[cfm] [ipm] @	<u>15</u> (inHg)

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	<u>92</u>	Silica gel (g)	
Static (inHg)	<u>-15.2</u>	Total Vlc	
Probe ID	<u>AES-D-0</u>	Liner Type	<u>tefl</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>N/A</u>	Train Type	<u>Imp</u>
Train ID	<u>T015</u>	Port Length (in)	
Duct Dim. (in)			
Start Time	<u>16:43</u>	Stop Time	



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impingers Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Volume Initial [°] [l]	Final [°] [l]									
2-6	58.5	.4	1.1	586.15	313	255	258	60	100	94	94	6	N/A	
7	63	.4	1.1	588.57	312	255	256	60	100	94	94	6		
3-1	67.5	.42	1.2	591.07	312	255	258	58	100	94	94	6		
2	72	.42	1.2	593.58	313	255	259	58	101	94	94	6		
3	76.5	.42	1.2	596.19	313	255	259	57	101	94	94	6		
4	81	.42	1.2	598.03	314	255	257	57	102	95	95	6		
5	85.5	.42	1.2	600.32	313	255	258	57	102	95	95	6		
6	90	.43	1.2	603.59	313	255	256	57	102	95	95	6		
7	94.5	.42	1.2	606.09	313	255	259	56	102	96	96	6		
4-1	99	.43	1.2	608.09	313	255	258	56	102	96	96	6		
2	103.5	.43	1.2	611.08	314	255	258	56	102	96	96	6		
3	108	.42	1.2	613.59	314	255	257	56	102	96	96	6		
Total				<u>70.13</u>	<u>3157</u>									
Average				<u>14.2</u>	<u>(311.14)</u>									

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet


TESTING TYPE: Metals

PAGE 3 of 3

METHOD NO. 29

RUN NO. 3

Client	<u>W/ke</u>		
Plant	<u>DB W/SM</u>		
Location	<u>ESP</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>P.C.</u>		
Probe Operator	<u>C.S.</u>		
Meter ID	<u>M-9</u>	Yd	<u>.84</u>
ΔH@	<u>1.556</u>	Kf	<u>2.75</u>
Pre Leak Check	<u>1000</u>	[cfm] [ppm] @	<u>15</u> (inHg)
Post Leak Check	<u>1000</u>	[cfm] [ppm] @	<u>15</u> (inHg)



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Gas flow [in] 60 of page

Barometer (inHg)		Water [ml] [g]	
Ambient Temp. (°F)	<u>92</u>	Silica gel (g)	
Static (inHg)	<u>15.2</u>	Total Vic	
Probe ID	<u>AC3-100</u>	Liner Type	<u>tefl</u>
Nozzle ID	<u>.250</u>	Nozzle Dia (in)	<u>.250</u>
Filter ID	<u>N/A</u>	Train Type	<u>Trap</u>
Train ID	<u>IB15</u>	Port Length (in)	
Duct Dim. (in)			

Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impingers:		DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
								Outlet Temp (°F)	Inlet Temp (°F)					
4-4	112.5	.4	1.1	616.13	313	255	258	56	101	95	6	N/A		
5	117	.43	1.2	618.64	314	255	260	56	101	95	6			
6	121.5	.4	1.1	621.13	314	255	259	56	100	95	6			
7	126	.42	1.2	623.68	313	255	258	56	100	94	6			
Total			4.6	70.13	1254									
Average			(4.1)		311.14									

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	Big Rivers Energy - Wilson Station		
Plant	Masonboro, KY		
Location	ESP Exhaust		
Date	3-13-11	Time	2
Operator	ML		

Run No.	1	Filter No.	NA
Method No.	29	Filter ID	
	Contents	Tare Wt (g)	Final (g)
Impinger No. 1	Empty	642.7	785.2 - 50
Impinger No. 2	5% / 10%	738.8	752.5
Impinger No. 3	5% / 10%	697.3	715.4
Impinger No. 4	Empty	631.4	647.1
Impinger No. 5	Silica	956.0	978.9
Impinger No. 6			
Impinger No. 7			
Additional Rinse			
		Net Weight (g)	

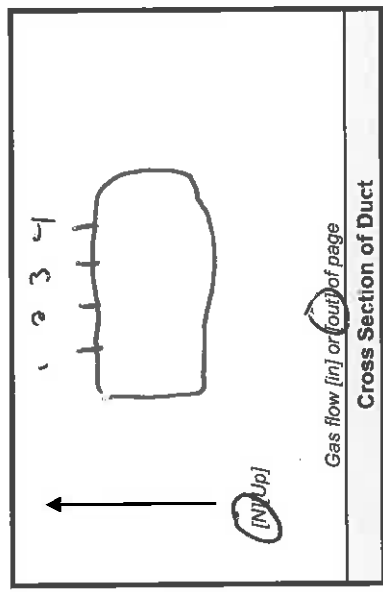
Run No.	2	Filter No.	NA
Method No.	29	Filter ID	
	Contents	Tare Wt (g)	Final (g)
Impinger No. 1	Empty	630.6	759.5 - 50
Impinger No. 2	5% / 10%	735.5	747.2
Impinger No. 3	5% / 10%	716.2	730.2
Impinger No. 4	Empty	628.9	636.0
Impinger No. 5	Silica	836.6	805.2
Impinger No. 6			
Impinger No. 7			
Additional Rinse			
		Net Weight (g)	

Run No.	3	Filter No.	NA
Method No.	29	Filter ID	
	Contents	Tare Wt (g)	Final (g)
Impinger No. 1	Empty	647.9	805.4 - 50
Impinger No. 2	5% / 10%	743.2	764.2
Impinger No. 3	5% / 10%	703.1	713.9
Impinger No. 4	Empty	644.2	649.0
Impinger No. 5	Silica	978.3	993.6
Impinger No. 6			
Impinger No. 7			
Additional Rinse			
		Net Weight (g)	

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Client	Wke
Plant	DB Wilson
Location	ESP 2
Date	7-15-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-15.2
Ambient Temp. (°F)	90
Start Time	8:08
Stop Time	9:56

Leah Ashby

Sample Train A Unspiked Trap

Trap ID	94433	Meter ID	R-20028	Yd	1.0072
Pre Leak Check	1.000	ipm @		15	(in. Hg)
Post Leak Check	1.000	ipm @		18	(in. Hg)

Rene Oster

Sample Train B Spiked Trap

Trap ID	94438	Meter ID	R-20028	Yd	1.9985
Pre Leak Check	1.000	ipm @		16	(in. Hg)
Post Leak Check	1.000	ipm @		18	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5	15	0.00				
3.75	15	1.72	132	100	5	
7.5	15	3.74	132	102	7	
11.25	15	5.49	130	101	8	
15	15	7.16	132	105	8	
18.75	15	8.95	132	105	9	
22.5	15	10.71	132	106	9	
26.25	15	12.49	132	106	12	
30	15	14.21	132	107	12	
33.75	15	16.12	132	107	13	
37.5	15	17.75	132	107	13	
41.25	15	19.41	132	108	13	
45	15	21.22	132	108	13	
Total		92.61	1475	1265		
Average			132	114.16		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7		0.00				
3.75	15	1.69	132	100	4	
7.5	15	3.36	132	102	5	
11.25	15	5.47	132	104	5	
15	15	7.27	132	105	5	
18.75	15	9.08	132	105	5	
22.5	15	10.82	132	106	5	
26.25	15	12.61	132	107	5	
30	15	14.39	132	107	5	
33.75	15	16.24	132	107	5	
37.5	15	18.04	132	107	6	
41.25	15	19.79	132	108	6	
45	15	21.58	132	108	6	
Total		93.5	1475	1265		
Average			132	114.16		

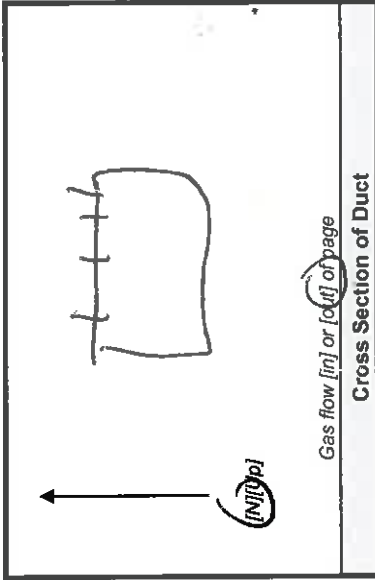
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Page 2 of 2

Client	<u>Lrhe</u>
Plant	<u>DB Wilson</u>
Location	<u>Esp 2</u>
Date	<u>7-15-11</u>
Project No.	<u>3698</u>
Meter Reader	<u>C-S</u>



Barometric (in. Hg)	
Static (inH ₂ O)	
Ambient Temp. (°F)	<u>92</u>
Start Time	<u>8:08</u>
Stop Time	<u>9:56</u>

Sample Train A Unspiked Trap

Trap ID	<u>9945</u>	Meter ID	<u>L-20218</u>	Yd	<u>1072</u>
Pre Leak Check	<u>000</u>	lpm @		<u>15</u>	(in. Hg)
Post Leak Check	<u>1000</u>	lpm @		<u>18</u>	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5		0.00				
Elapsed Time						
48.75	.5	27.09	132	116	13	
53.5	.5	29.94	132	118	13	
56.25	.5	26.76	132	119	13	
60	.5	28.61	132	119	13	
63.75	.5	30.30	132	122	13	
67.5	.5	32.12	132	125	13	
71.25	.5	33.86	132	125	13	
75	.5	35.68	132	125	13	
78.75	.5	37.41	132	125	13	
82.5	.5	39.13	132	126	13	
86.25	.5	40.95	132	127	13	
90	.5	40.81	132	128	13	
Total			<u>2168</u>	<u>1175</u>		
Average			<u>132</u>	<u>114.16</u>		

Sample Train B Spiked Trap

Trap ID	<u>9948</u>	Meter ID	<u>L-20218</u>	Yd	<u>9985</u>
Pre Leak Check	<u>000</u>	lpm @		<u>00</u>	(in. Hg)
Post Leak Check	<u>1000</u>	lpm @		<u>12</u>	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5		0.00				
Elapsed Time						
48.75	.5	22.27	132	116	13 6	
53.5	.5	25.19	132	118	13 6	
56.25	.5	27.01	132	119	13 6	
60	.5	28.77	132	119	13 6	
63.75	.5	30.61	132	122	13 6	
67.5	.5	32.34	132	125	13 6	
71.25	.5	34.17	132	125	13 6	
75	.5	35.95	132	125	13 6	
78.75	.5	37.85	132	125	13 6	
82.5	.5	39.57	132	126	13 6	
86.25	.5	41.34	132	127	13 6	
90	.5	43.5	132	128	13 6	
Total			<u>2168</u>	<u>1175</u>		
Average			<u>132</u>	<u>114.16</u>		

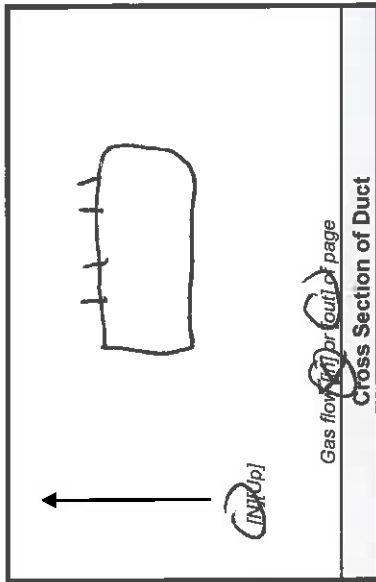
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	WKR
Plant	DB Wilson
Location	Esp 2
Date	7-15-11
Project No.	3646
Meter Reader	C.S



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-15.2
Ambient Temp. (F)	98
Start Time	11:15
Stop Time	12:46

Ashbel

Sample Train A Unspiked Trap

Trap ID	94992	Meter ID	1-20078	Yd	1,0072
Pre Leak Check		lpm @	17		(in. Hg)
Post Leak Check		lpm @			(in. Hg)

Ashbel

Sample Train B Spiked Trap

Trap ID	94176	Meter ID	1-20014	Yd	1998
Pre Leak Check		lpm @	17		(in. Hg)
Post Leak Check		lpm @			(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5						
Elapsed Time		0.00				
3.75	.5	1.89	113	113	6	TS.135
7.5	.5	3.64	135	114	6	
11.25	.5	5.45	135	115	6	
15	.5	7.21	135	116	6	
18.75	.5	9.02	135	116	6	
22.5	.5	10.80	135	116	6	
26.25	.5	12.42	130	114	6	
30	.5	14.22	130	117	6	
33.75	.5	15.96	130	117	6	
37.5	.5	17.74	137	118	6	
41.25	.5	19.42	137	118	6	
45	.5	21.27	137	118	6	
Total		42.90	1125	1294		
Average			130.878	118.4107		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5						
Elapsed Time		0.00				
3.75	.5	1.72	113	113	3	TS BS
7.5	.5	3.89	114	114	3	TS 135
11.25	.5	5.28	115	115	3	TS 135
15	.5	7.12	135	116	3	
18.75	.5	8.92	135	116	3	
22.5	.5	10.46	135	116	3	
26.25	.5	12.33	135	116	3	
30	.5	14.16	130	116	3	
33.75	.5	15.81	130	116	3	
37.5	.5	17.55	130	118	3	
41.25	.5	19.37	130	118	3	
45	.5	21.10	130	118	3	
Total		42.78	1125	1340		
Average			130.916	118.025		

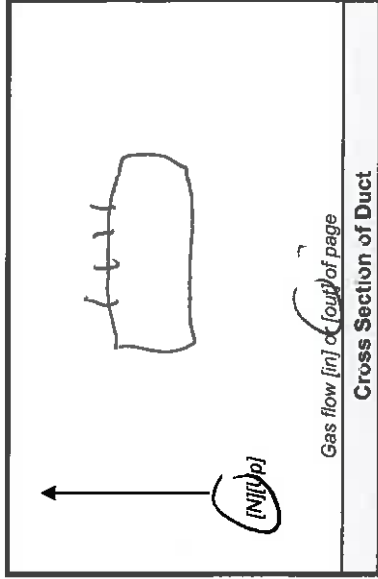
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

[Signature]

Run No.

Page 2 of 2

Client	<i>wike</i>
Plant	DB Wilson
Location	ESL
Date	7-15-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	
Static (inH ₂ O)	
Ambient Temp. (°F)	98
Start Time	
Stop Time	

Sample Train A Unspiked Trap

Trap ID	94992	Meter ID	R-20018	Yd	10073
Pre Leak Check	100	ipm @	17	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5		0.00				
Elapsed Time						
48.75	.5	23.22	137	119	0	
50.5	.5	25.01	137	119	0	
56.25	.5	24.74	138	120	0	
60	.5	25.00	138	120	0	
63.75	.5	30.32	138	120	0	
67.5	.5	32.14	138	121	0	
71.25	.5	33.88	138	121	0	
75	.5	35.74	139	121	0	
78.75	.5	37.56	139	121	0	
82.5	.5	39.32	139	121	0	
86.25	.5	41.07	139	122	0	
90	.5	42.96	140	122	0	
Total			1000	119.8		
Average						

Sample Train B Spiked Trap

Trap ID	94776	Meter ID	R-20019	Yd	19955
Pre Leak Check	100	ipm @	17	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

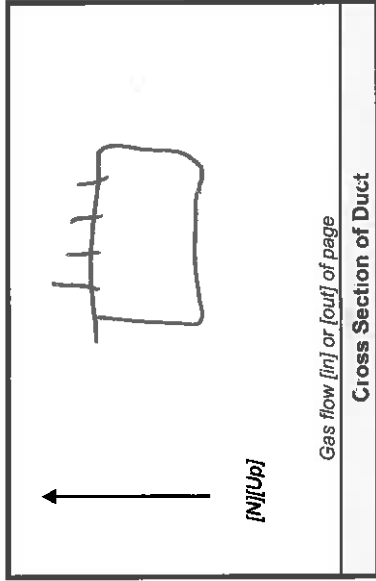
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
7.5		0.00				
Elapsed Time						
48.75	.5	22.93	134	118	3	
50.5	.5	24.81	137	118	3	
56.25	.5	24.60	137	119	3	
60	.5	28.32	137	119	3	
63.75	.5	30.13	138	121	3	
67.5	.5	31.82	138	122	3	
71.25	.5	33.68	139	122	3	
75	.5	35.42	139	123	3	
78.75	.5	37.28	139	123	3	
82.5	.5	39.01	140	124	3	
86.25	.5	40.89	140	124	3	
90	.5	42.78	141	124	3	
Total			1410.1	124.7		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Client	WXL
Plant	DB Wilson
Location	ESP
Date	7-15-11
Project No.	3646
Meter Reader	C.S



Page 1 of 2

Barometric (in. Hg)	29.56
Static (inH ₂ O)	-15.2
Ambient Temp. (°F)	91.00
Start Time	14:04
Stop Time	16:12

Rental

Sample Train A Unspiked Trap

Trap ID	99453	Meter ID	R-20098	Yd	1.0075
Pre Leak Check	1000	lpm @	17		(in. Hg)
Post Leak Check	1000	lpm @	15		(in. Hg)

Rental

Sample Train B Spiked Trap

Trap ID	99495	Meter ID	R-20098	Yd	1.9985
Pre Leak Check	1000	lpm @	15		(in. Hg)
Post Leak Check	1000	lpm @	15		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.5	1.76	313	111	7	
7.5	.5	3.50	313	111	7	
11.25	.5	5.25	313	112	8	
15	.5	7.00	313	113	8	
18.75	.5	8.75	313	114	8	
22.5	.5	10.50	313	115	9	
26.25	.5	12.25	313	115	9	
30	.5	14.00	313	116	9	
33.75	.5	15.75	313	116	9	
37.5	.5	17.50	313	116	9	
41.25	.5	19.25	313	117	9	
45	.5	21.00	313	117	9	
Total		42.83	313	1373	6	
Average		(42.83)	(313)	118.83		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.5	1.76	313	111	3	
7.5	.5	3.50	313	111	3	
11.25	.5	5.25	313	112	3	
15	.5	7.00	313	113	3	
18.75	.5	8.75	313	114	3	
22.5	.5	10.50	313	115	3	
26.25	.5	12.25	313	115	3	
30	.5	14.00	313	116	3	
33.75	.5	15.75	313	116	3	
37.5	.5	17.50	313	117	3	
41.25	.5	19.25	313	117	3	
45	.5	21.00	313	117	3	
Total		42.83	313	1373	3	
Average		(42.83)	(313)	118.83		

1474

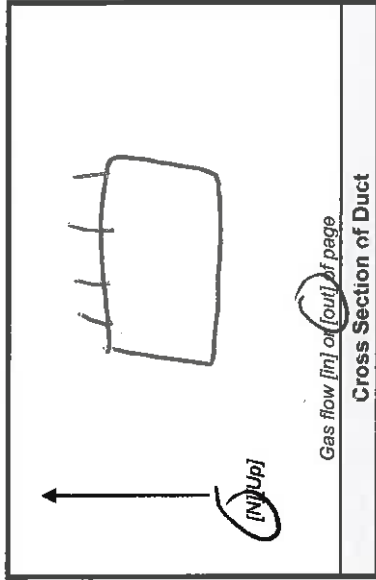
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	WFO
Plant	DB Wilson
Location	Esp
Date	7-15-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	
Static (inH ₂ O)	
Ambient Temp. (°F)	102
Start Time	14:01
Stop Time	16:12

Sample Train A Unspiked Trap *Rental*

Trap ID	9453	Meter ID	R-20018	Yd	1015
Pre Leak Check		lpm @	1000		13 (in. Hg)
Post Leak Check		lpm @	1000		13 (in. Hg)

Sample Train B Spiked Trap *Rental*

Trap ID	9455	Meter ID	R-20018	Yd	1985
Pre Leak Check		lpm @	1000		15 (in. Hg)
Post Leak Check		lpm @	1000		15 (in. Hg)

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
48.75	.5	23.01	313	118	9	
52.5	.5	24.81	313	118	9	
56.25	.5	26.62	313	112	9	
60	.5	28.86	313	119	9	
63.75	.5	30.68	313	122	9	
67.5	.5	32.43	313	124	9	
71.25	.5	34.21	313	124	9	
75	.5	36.00	313	125	9	
78.75	.5	37.75	313	126	9	
82.5	.5	39.57	313	127	9	
86.25	.5	41.34	313	128	9	
90	.5	43.20	313	129	9	
Total		43.20	3136	1274		
Average			313	118.63		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
48.75	.5	23.05	313	118	3	
52.5	.5	25.01	313	118	3	
56.25	.5	26.87	313	119	3	
60	.5	28.69	313	119	3	
63.75	.5	30.41	313	122	3	
67.5	.5	32.19	313	124	3	
71.25	.5	34.00	313	124	3	
75	.5	35.78	313	125	3	
78.75	.5	37.56	313	126	3	
82.5	.5	39.33	313	127	3	
86.25	.5	41.09	313	128	3	
90	.5	42.83	313	129	3	
Total		42.83	3136	1274		
Average			313	118.63		

AIRTECH ENVIRONMENTAL SERVICES INC.

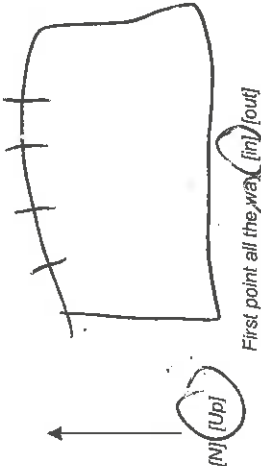
General Testing Data Sheet

RUN NO. 1 Page 1 of 3

TESTING TYPE: Particulate

METHOD NO. 5602

Client	Big Rivers			Water [ml]	29.56
Plant	Owensboro, KY			Silica gel (g)	100
Location	ES 3			Total Vlc	-16.5
Date	7/15/16			Project No.	3048
Meter Operator	MK			Probe ID	AK5-B-1
Probe Operator	MK			Nozzle Dia (in)	750
Meter ID	M-10	Yd	1.009	Filter ID	11072
ΔH@	1.419	Kf	2.49	Train ID	764
Pre Leak Check	0.00	Leak check	✓	Duct Dim. (in)	102" x 102"
Post Leak Check	0.00	Pitot Cp	.64	Stop Time	8:08
		Leak check	✓		9:39
		20 (inHg)			
		16 (inHg)			



Train	Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	1-1	3:25	0.39	1.02	221.72	335	320	319	510	92	89	9	72	ΔH = 0.95 Initial vol. = 220.9
	2	6:5	0.39	0.97	223.06	330	321	320	510	92	89	9	72	
	3	9:15	0.41	1.02	225.22	335	322	320	57	92	90	9	73	
	4	12:0	0.42	1.05	227.02	335	321	320	57	93	90	9	73	
	5	16:25	0.42	1.05	228.84	334	321	320	57	93	90	9	73	
	6	19:5	0.40	1.0	230.69	333	320	321	58	94	90	9	73	
	7	22:25	0.39	0.97	232.41	333	320	320	58	94	90	9	74	
	2-1	26	0.29	0.97	234.19	333	320	320	59	94	90	9	74	
	2	29:25	0.41	1.0	236.23	333	320	320	59	94	89	9	74	
	3	32:5	0.42	1.1	237.80	332	320	321	59	95	89	9	74	
	4	35:35	0.43	1.1	239.36	331	320	319	59	95	89	9	74	
	5	39	0.43	1.1	241.81	332	319	322	60	95	90	9	74	
Total			17.9102	17.28	50.4100	1002				1123	1075			
Average			0.411	1.0286	336.4643	336.4643				1099.0	1075			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. _____

METHOD NO. SB/202

Page 2 of 3

Client	Big Rivers		
Plant	Downsboro, KY		
Location	ESP 3		
Date	7/16/11	Project No.	3640
Meter Operator	MR		
Probe Operator	MT		
Meter ID	M-10	Yd	1.004
ΔH@	1.819	Kf	2.499
Pre Leak Check	0.00	[ppm] @	20 (inHg)
Post Leak Check	0.00	[ppm] @	18 (inHg)

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	100	Sifted gel (g)	
Static (inH ₂ O)	-16.5	Total Vlc	
Probe ID	AE-5-13-	Liner Type	TFE
Nozzle ID	.25	Nozzle Dia (in)	.250
Filter ID			
Train ID	13-4	Train Type	imp
Duct Dim. (in)	102" x 162"	Port Length (in)	45"



Gas flow (in) out of page

Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	42.25	.40	1.0	243.23	335	320	320	58	97	92	9	73	
7	45.5	.39	.97	245.91	337	320	320	58	98	92	9	73	
3-1	48.75	.38	.95	248.25	340	321	319	59	98	93	9	73	
2	51	.39	.97	249.98	340	321	320	57	99	93	9	74	
3	54.25	.41	1.02	257.75	340	320	320	59	101	93	9	74	
4	52.5	.42	1.05	255.23	339	320	321	59	102	94	9	74	
5	49.75	.43	1.1	255.43	338	320	320	59	102	94	9	75	
6	42.5	.41	1.02	257.24	340	321	321	60	103	94	9	75	
7	46.75	.39	.97	259.06	339	320	321	60	103	90	9	75	
4-1	20	.39	.97	260.81	339	321	320	60	104	94	9	75	
2	22.25	.40	1.0	262.67	339	321	321	60	104	97	9	75	
3	24.5	.40	1.0	264.42	330	320	319	60	105	98	9	75	
Total			12.02		406.2				1210	1130			
Average										1174.0			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

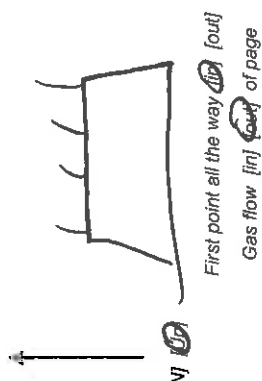
RUN NO. _____

METHOD NO. SB/202

Page 3 of 3

Client	Big Rivers	
Plant	Powersboro, KY	
Location	ESP 3	
Date	7/10/11	Project No. 3010
Meter Operator	NR	
Probe Operator	MA	
Meter ID	M-10	Yd 1.0091
ΔH@	1.819	KF 2.49
Pre Leak Check	1.12	[6.0] [lpm] @ 20 (inHg)
Post Leak Check	1.22	[6.0] [lpm] @ 12 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vic	
Probe ID	AE 5-12-1	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID			
Train ID	IB 4	Train Type	Imp
Duct Dim. (in)	10.2" x 6.2"	Port Length (in)	43"



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-4	29.75	.44	1.1	264.72	337	319	320	59	106	100	9	75	
5	29.85	.46	1.1	268.18	339	319	321	59	107	101	9	75	
6	29.96	.47	1.2	270.13	340	320	320	60	107	101	9	74	
7	30.01	.46	1.1	271.94	341	320	320	60	109	102	9	70	
Total				50.40	1357				419	404			
Average			1.5						410.5				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

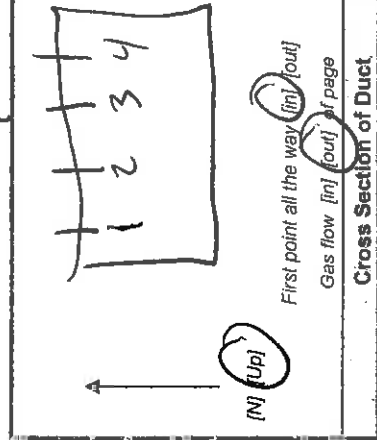
TESTING TYPE: Perfluorobutane

METHOD NO. 50/202

Page 1 of 3

Client	<u>Bike Riders</u>		
Plant	<u>Overbrook, NY</u>		
Location	<u>638 5</u>		
Date	<u>7/15/11</u>	Project No.	<u>20418</u>
Meter Operator	<u>ML</u>		
Probe Operator	<u>ML</u>		
Meter ID	<u>M-10</u>	Yd	<u>2.1.001</u>
ΔH@	<u>1.419</u>	Kf	<u>2.60</u>
Pre Leak Check	<u>0.00</u> [cfm] [ppm] @	Pilot Cp	<u>.80</u>
Post Leak Check	<u>0.00</u> [cfm] [ppm] @	Leak check	<u>V</u>

Barometric (inHg)	<u>29.56</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>70</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-16.5</u>	Total Vlc	
Probe ID	<u>KE6-B-1</u>	Liner Type	<u>TPE</u>
Nozzle ID	<u>280</u>	Nozzle Dia (in)	<u>.650</u>
Filter ID	<u>1208L</u>		
Train ID	<u>JB</u>	Train Type	<u>JMP</u>
Duct Dim. (in)	<u>6.2" x 6.2"</u>	Port Length (in)	<u>4.3"</u>



Start Time	Cross Section of Duct										Stop Time
	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes			
11:15	320	320	58	108	115	10	70				
12:46	320	320	58	108	115	10	70				
	322	320	58	109	115	10	70				
	320	321	58	109	115	10	70				
	320	318	58	110	116	10	70				
	320	320	58	110	116	10	70				
	320	317	59	110	116	10	70				
	321	320	57	110	114	10	76				
	320	320	59	111	113	10	71				
	320	321	59	111	112	10	71				
	321	320	60	111	110	10	71				
	320	320	60	112	109	10	71				
Total				320	312						
Average				320	312						

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

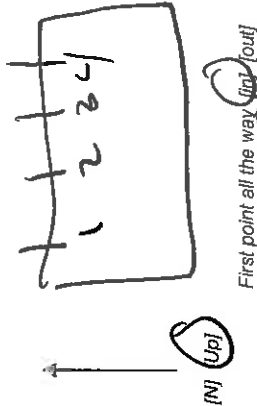
RUN NO. 2

METHOD NO. SBK02

Page 2 of 3

Client	Bio Divers		
Plant	Owensboro, Ky		
Location	EA 3		
Date	7/15/11	Project No.	3040
Meter Operator	ML		
Probe Operator	MH		
Meter ID	M10	Yd	1.009
ΔH@	1.89	Kf	2.60
Pre Leak Check	0.00	[cfm] [lpm] @	2.2 (inHg)
Post Leak Check	0.06	[cfm] [lpm] @	2.0 (inHg)

Barometric (inHg)	29.56	Water (mil) [g]	
Ambient Temp (°F)	70	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vic	
Probe ID	AE 5-131	Liner Type	DFE
Nozzle ID	260	Nozzle Dia (in)	1.50
Filter ID	10082		
Train ID	FB	Train Type	FMP
Duct Dim. (in)	1.02" x 1.02"	Port Length (in)	4.3"
Start Time	11:15	Stop Time	12:46



Duct Section of Duct	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	320	320	60	112	110	10	71	
	320	319	60	112	110	10	71	
	320	320	60	112	110	10	71	
	320	321	60	113	110	10	71	
	320	320	60	113	110	10	71	
	320	320	61	113	110	10	71	
	320	320	61	113	111	10	72	
	320	319	61	113	111	10	72	
	320	320	61	113	111	10	72	
	320	321	62	113	111	10	73	
	320	320	62	114	111	10	73	
	320	320	62	114	111	10	73	
	320	320	62	116	112	10	73	
Total				313	342			
Average				112.018				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

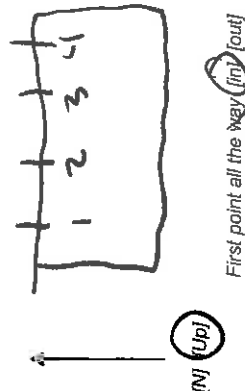
METHOD NO. SB202

RUN NO. 2

Client	Bios Rivers		
Plant	Aurora, KY		
Location	Exp 3		
Date	7/15/11	Project No.	31648
Meter Operator	ML		
Probe Operator	MH		
Meter ID	M10	Yd	1.00M
ΔH@	1.89	Kf	2.60
Pre Leak Check	.000	[cfm] [ppm] @	22 (inHg)
Post Leak Check	.000	[cfm] [ppm] @	20 (inHg)

Barometric (inHg)	29.56	Water (ml)	lg
Ambient Temp (°F)	110	Silica gel (g)	
Static (inH ₂ O)	-16.6	Total Vlc	
Probe ID	AE5-13-1	Liner Type	TPE
Nozzle ID	250	Nozzle Dia (in)	.250
Filter ID	12082		
Train ID	2B	Train Type	IMP
Duct Dim. (in)	162" x 162"	Port Length (in)	43"

Start Time	11:15	Stop Time	12:51
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	8:25	.44	1.1	333.79	344	320	320	63	114	112	10	73	
5	8:45	.45	1.2	335.51	344	320	320	63	114	112	10	74	
6	8:75	.42	1.1	337.31	343	320	319	63	114	112	10	74	
7	9:1	.38	.99	339.23	342	321	320	64	115	112	10	74	
Total		17.967	1.924	51.67	96.05				3131	3112			
Average		1.6406	1.023		343.0%				112.018				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Pesticide

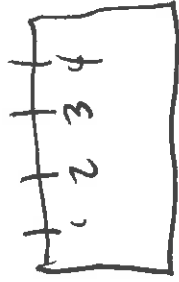
RUN NO. 3

METHOD NO. 5B/202

Page 1 of 3

Client	Big Rivers	
Plant	Osburnboro, Ky	
Location	E23 3	
Date	7/15/11	Project No. 30416
Meter Operator	MH	
Probe Operator	MH	
Meter ID	M-10	Yd 1.009/
ΔH@	1.819	Kf 2.58
Pre Leak Check	.020	(cfpm) [ppm] @ 15 (inHg)
Post Leak Check	.000	(cfpm) [ppm] @ 15 (inHg)

Barometric (inHg)	29.56	Water (ml) (g)	
Ambient Temp (°F)	86	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vlc	
Probe ID	AE-6-13-1	Liner Type	TFE
Nozzle ID	750	Nozzle Dia (in)	.80
Filter ID	R143		
Train ID	FB4	Train Type	IMP
Duct Dim. (in)	102" x 162"	Port Length (in)	43"



Start Time	1404	Stop Time	16:12
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (l) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:25	.37	.96	345.25	344	320	320	57	108	107	10	69	
2	6:5	.40	1.0	348.91	347	320	320	57	108	167	10	69	
3	9:36	.43	1.1	350.99	345	320	320	57	108	157	10	70	
4	13	.44	1.1	352.78	346	321	321	58	108	167	10	70	
5	16:25	.47	1.1	355.02	346	320	320	58	109	167	10	70	
6	19:5	.40	1.0	356.42	346	320	320	58	109	167	10	70	
7	22:35	.39	1.0	358.12	347	321	320	59	116	168	10	70	
2-1	26	.39	1.0	360.36	344	320	319	59	116	168	10	70	
2	29:25	.40	1.0	362.00	347	320	320	59	110	168	10	70	
3	32:5	.45	1.2	363.79	348	320	320	59	110	168	10	70	
4	36:15	.44	1.1	366.87	347	321	321	59	110	168	10	71	
5	39	.41	1.1	367.60	347	320	320	59	110	168	10	71	
Total		17.922	19.90	52.14	9701				3098	3048			
Average		.6401	1.054		216.461				109.696				

Circle correct bracketed () units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

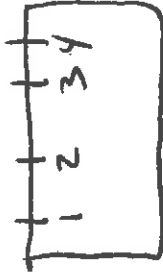
RUN NO. 3

METHOD NO. SB/602

Page 2 of 3

Client	Bios Rives		
Plant	Osweston, NY		
Location	6503		
Date	7/15/11		
Meter Operator	INC		
Probe Operator	M		
Meter ID	M-10	Yd	1.0091
ΔH@	1.919	KF	2.58
Pre Leak Check	.000	[cfm] [lpm] @	15 (inHg)
Post Leak Check	.000	[cfm] [lpm] @	15 (inHg)
Project No.	3448		
Pitot Cp	.84		
Leak check	V		

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	86	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vlc	
Probe ID	ABS-13-1	Liner Type	TPE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12143	Train Type	IMP
Train ID	2084	Port Length (in)	43"
Duct Dim. (in)	102" x 102"		



Cross Section of Duct

Start Time 19:04 Stop Time 16:12

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	42.25	.39	1.0	346.25	346	320	320	60	116	109	10	71	
7	45.5	.38	.98	369.39	346	320	320	60	116	109	10	71	
3-1	48.25	.40	1.0	371.42	348	320	320	60	111	109	10	71	
2	52	.40	1.0	373.26	347	320	321	61	111	109	10	71	
3	65.25	.42	1.1	375.11	349	320	320	61	111	109	10	71	
4	58.5	.43	1.1	376.89	347	320	320	62	111	109	10	72	
6	61.75	.41	1.1	378.64	347	320	320	62	111	109	10	72	
6	65	.39	1.0	380.45	347	320	320	62	111	116	10	72	
7	68.25	.38	.99	382.63	346	320	320	62	111	110	10	72	
4-1	71.5	.38	.98	384.47	346	320	320	63	111	110	10	72	
2	74.75	.42	1.1	386.21	346	320	320	63	112	110	10	72	
3	78	.44	1.1	388.01	347	320	320	64	112	110	10	73	
				389.84	347	320	320	64	112	110	10	73	
Total		17.92	29.60	62.14	970				305	3048			
Average		.6401	1.054		346.464				109.676				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

PAGE 3 OF 3

METHOD NO. SB/102

RUN NO. 7

Client	Big Rivers				
Plant	Owensboro, KY				
Location	BSP 3				
Date	7/15/14	Project No.	3048		
Meter Operator	ML				
Probe Operator	MH				
Meter ID	M-10	Yd	1.0091	Pitot Cp	.99
ΔH@	1.817	Kf	2.58	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	15	(inHg)	
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)	

First point all the way (in) (out)
Gas flow (in) (out) @ page

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-4	5:12.5	.41	1.1	345.25	347	320	325	64	113	110	10	73	
5	8:4.5	.45	1.2	343.90	346	320	320	64	113	110	10	73	
6	8:7.25	.41	1.1	345.52	347	320	320	64	113	111	10	73	
7	9:1	.40	1.0	347.39	347	320	320	64	113	111	10	73	
Total		17.922	21.500	62.14	970				3095	3048			
Average		6.401	1.054		316.469				109.696				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3040

Page 1 of 1

Client:	<u>Bio Fibers</u>
Plant:	<u>Dexinon</u>
Location:	<u>ESP 3</u>
Date:	<u>7/14/11</u>
Operator:	<u>DC</u>

Run No.	<u>1</u>	Method No.	<u>SB200</u>	Filter No.	<u>12070</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>573.0</u>	<u>701.4</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>703.0</u>	<u>677.6</u>		
Impinger No. 3	<u>Empty</u>	<u>608.0</u>	<u>613.2</u>		
Impinger No. 4	<u>Silica</u>	<u>864.0</u>	<u>379.8</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	<u>2</u>	Method No.	<u>SB200</u>	Filter No.	<u>12082</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>600.4</u>	<u>641.5</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>631.2</u>	<u>675.4</u>		
Impinger No. 3	<u>Empty</u>	<u>541.6</u>	<u>557.4</u>		
Impinger No. 4	<u>Silica</u>	<u>824.7</u>	<u>885.8</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	<u>3</u>	Method No.	<u>SB200</u>	Filter No.	<u>12143</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>592.1</u>	<u>696.0</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>611.1</u>	<u>683.9</u>		
Impinger No. 3	<u>Empty</u>	<u>606.4</u>	<u>621.3</u>		
Impinger No. 4	<u>Silica</u>	<u>879.5</u>	<u>907.3</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

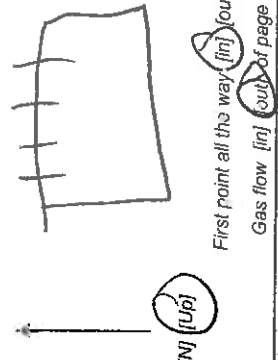
RJN NO. 1

METHOD NO. 26

Page of

Client	Bios Rings	
Plant	Dunbar Dred	
Location	Esp 3	
Date	7/14/11	Project No. 3648
Meter Operator	MLC	
Probe Operator	MH	
Meter ID	M-14	Yd 1.0587
ΔH@	1.502	Kf 2.61
Pre Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)

Barometric (inHg)	29.51	Water [mil] [g]	
Ambient Temp (°F)	103	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vic	
Probe ID	AK56-4	Liner Type	GLD
Nozzle ID	250	Nozzle Dia (in)	250
Filter ID	NA		
Train ID	2114	Train Type	SMP
Duct Dim. (in)	102" x 102"	Port Length (in)	42"
Start Time	10:09	Stop Time	12:09



Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DG/M Inlet Temp (°F)	DG/M Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		16	.4	1.1	28.24	330	250	250	59	113	105	3		
		26	.4	1.1	26.64	331	250	250	59	111	106	3		
		30	.4	1.1	26.89	330	250	250	60	111	105	3		
		46	.4	1.1	23.90	331	250	250	60	112	106	3		
		50	.4	1.1	25.26	330	250	250	60	113	107	3		
		60	.4	1.1	105.5	331	250	250	60	112	107	3		
		70	.4	1.1	111.29	330	250	250	61	111	107	3		
		80	.4	1.1	114.23	330	250	250	61	111	107	3		
		90	.4	1.1	123.17	330	250	250	62	110	107	3		
		100	.4	1.1	125.96	331	250	250	62	110	107	3		
		110	.4	1.1	121.79	331	250	250	62	110	106	3		
		120	.4	1.1	140.64	331	250	250	62	109	106	3		
Total					70.76	3306				133	104			
Average					0.609	3405				147	104			

Circle correct bracketed () units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

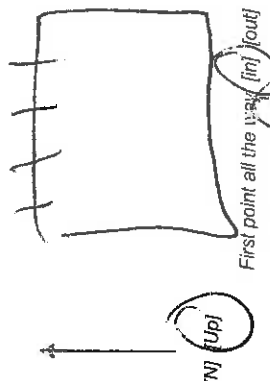
TESTING TYPE: HCl

METHOD NO. 26

RUN NO. 2

Page 1 of 1

Client	Bia Rivers		Water [ml]	29.51	
Plant	CAMPBELL		Silica gel (g)	105	
Location	EXP 3		Total Vc	-16.5	
Date	7/11/11	Project No.	3248	Liner Type	Glass
Meter Operator	NR			Nozzle Dia (in)	.250
Probe Operator	MM			Filter ID	N/A
Meter ID	M-11	Yd	1.008x	Train Type	IR
ΔH@	1.402	Kf	2.57	Port Length (in)	43"
Pre Leak Check	.000	[cfm] [ppm] @	15 (inHg)	Start Time	13:43
Post Leak Check	.000	[cfm] [ppm] @	15 (inHg)	Stop Time	15:48



Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		10	.40	1.0	149.81	336	250	250	57	100	95	3		144.78
		20	.40	1.0	155.40	334	250	250	57	105	97	3		
		30	.40	1.0	160.92	334	250	250	54	105	99	3		
		40	.40	1.0	166.63	333	250	250	54	110	101	3		
		50	.40	1.0	171.84	333	250	250	54	111	102	3		
		60	.40	1.0	177.67	333	250	250	60	111	102	3		
		70	.40	1.0	182.79	332	250	250	61	111	103	3		
		80	.40	1.0	187.44	330	250	250	62	110	103	3		
		90	.40	1.0	194.56	335	246	245	62	110	104	3		
		100	.40	1.0	200.17	335	240	240	63	110	104	3		
		110	.40	1.0	206.08	338	240	240	64	110	105	3		
		120	.40	1.0	211.76	335	240	250	65	110	105	3		
Total					66.96	4025				1305	1260			
Average					0.46	335.41				105	104			

Circle correct bracketed [] units
Train Typ. denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

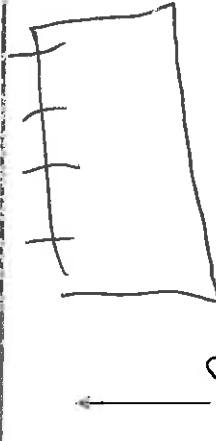
TESTING TYPE: HCl

RUN NO. 3

METHOD NO. 26

Page 1 of 1

Client	Big Rivers		
Plant	AUGUSTOPORE, KY		
Location	ESP 3		
Date	7/14/11	Project No.	3648
Meter Operator	MRF		
Probe Operator	MRF		
Meter ID	M-14	Yd	1.0007
AH@	1.402	KF	2.54
Pre Leak Check	000	[cfm] [rpm] @	15 (inHg)
Post Leak Check	000	[cfm] [rpm] @	15 (inHg)
Pilot Cp	.64		
Leak check	✓		



Barometric (inHg)	29.57	Water (mil) (g)	
Ambient Temp (°F)	103	Silica gel (g)	
Stake (inH ₂ O)	16.5	Total Vic	
Probe ID	AF5-60	Liner Type	Clad
Nozzle ID	750	Nozzle Dia (in)	750
Filter ID	NA		
Train ID	IS14	Train Type	EMP
Duct Dim. (in)	16.2" x 16.2"	Port Length (in)	43"

Start Time	16:43	Stop Time	18:43
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Min/Point	Velocity Pressure AP (inH ₂ O)	Orifice Setting AH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
10	.41	1.0	232.00	334	250	250	56	105	109	3		
20	.41	1.0	224.34	324	250	250	56	108	103	3		
30	.41	1.0	221.70	333	250	250	56	108	103	3		
40	.41	1.0	235.69	332	230	250	57	109	103	3		
50	.41	1.0	241.06	333	250	250	57	109	103	3		
60	.41	1.0	246.62	334	249	249	58	109	102	3		
70	.41	1.0	252.21	337	245	251	60	108	102	3		
80	.41	1.0	257.81	335	250	250	60	109	102	3		
90	.41	1.0	263.34	334	250	250	61	109	102	3		
100	.41	1.0	269.48	333	249	251	61	109	102	3		
110	.41	1.0	274.11	333	250	250	61	109	102	3		
120	.41	1.0	279.96	332	250	250	62	109	102	3		
Total			64.96	349				301	1231			
Average			16.407	332.5				105.400				

Circle correct bracketed [] units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 348

Page | | of | |

Client	<u>Big River</u>		
Plant	<u>DB Wilson</u>		
Location	<u>RSP 3</u>		
Date	<u>7/14/14</u>	Unit	
Operator	<u>BC</u>		

Run No.	<u>1</u>	Filter No.		Filter No.	<u>NA</u>
Method No.	<u>26</u>	Filter ID		Filter No.	
	Contents	Tare with Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>716.0</u>	<u>788.0</u>	<u>-50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>710.0</u>	<u>743.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>632.0</u>	<u>638.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>1011.0</u>	<u>1036.0</u>		<u>1036.0</u>
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	<u>3</u>	Filter No.		Filter No.	<u>NA</u>
Method No.	<u>26</u>	Filter ID		Filter No.	
	Contents	Tare with Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>613.0</u>	<u>733.0</u>	<u>-50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>631.0</u>	<u>680.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>545.0</u>	<u>552.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>883.0</u>	<u>908.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	<u>3</u>	Filter No.		Filter No.	<u>NA</u>
Method No.	<u>26</u>	Filter ID		Filter No.	
	Contents	Tare with Contents (g)	Filter (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>730.0</u>	<u>860.0</u>	<u>-50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>715.0</u>	<u>739.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>637.0</u>	<u>643.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>931.0</u>	<u>950.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

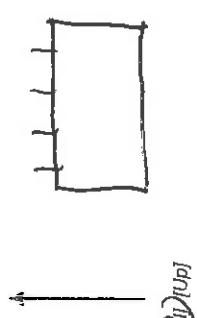
RUN NO. 1

TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 3

Client	Big Rivers		
Plant	Owensboro, Ky		
Location	ESP-3		
Date	7-11-11	Project No.	30-18
Meter Operator	MH		
Probe Operator	WR		
Meter ID	M-10	Yd	1.009
ΔH@	1.819	Kf	1.68
Pre Leak Check	0.01	[cfm] [ppm]	20
Post-Leak Check	0.01	[cfm] [ppm]	15
		Pilot Cp	8.1
		Leak check	✓



First point all the way (in) (out)
Gas flow (in) (out) of page

Barometric (inHg)	29.51	Water (ml) [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vc	
Probe ID	AES-12-1	Liner Type	TFL
Nozzle ID	225	Nozzle Dia (in)	.225, 250
Filter ID	NA		
Train ID	25	Train Type	IMP
Duct Dim. (in)	1.02" x 1.02"	Port Length (in)	4.5"

Start Time	12:09	Stop Time	12:24
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGW Inlet Temp (°F)	DGW Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	.41	.69	2.15	340	250	249	51	96	95	5	NA	Initial Jet. 0.000
2	9	.41	.69	4.20	341	252	248	51	96	96	5		
3	13.5	.44	.74	6.26	340	251	252	56	97	96	5		
4	18	.42	.74	8.39	341	250	250	56	97	96	5		
5	22.5	.47	.79	10.61	342	250	250	56	98	96	5		
6	27	.47	.79	12.81	343	250	250	58	98	96	5		
7	31.5	.47	.79	15.02	343	249	249	58	98	96	5		
2-1	36	.47	.79	17.24	344	250	250	59	99	97	5		
2	40.5	.47	.79	19.30	344	250	250	59	99	97	5		
3	45	.44	.74	23.56	347	250	252	60	99	98	5		.70
4	49.5	.44	.74	25.72	341	251	258	61	99	98	5		
5	54	.44	.74	25.72	340	250	249	62	99	97	5		
Total	126	6056	8.94	63.93	4466				1175	1158			
Average		6.37	7.55	61.74	345.79					97.42			

Circle correct bracketed [] units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 3 of 3

Client	Big House		
Plant	Obersberg, KY		
Location	ESP. 3		
Date	7-14-11	Project No.	
Meter Operator	M1		
Probe Operator	DAR		
Meter ID	M-10	Yd	1.0091
ΔH@	1.819	KF	1.68
Pre Leak Check	0.01	(ppm) @	70 (inHg)
Post Leak Check	0.01	(ppm) @	15 (inHg)

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vic	
Probe ID	AES-12-1	Liner Type	TFL
Nozzle ID	225	Nozzle Dia (in)	225, 250
Filter ID	WA	Train Type	IMP
Train ID	25	Port Length (in)	
Duct Dim. (in)			



(in) [Up] First point all the way [in] [out]
Gas flow [in] [out] of page

Cross Section of Duct

Start Time

Stop Time

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	1:15	1.17	79	56.98	349	251	252	63	97	95	5	WA	19.5
5	1:17	1.81	86	59.30	319	250	251	64	97	95	5		54
6	1:15	1.51	86	61.62	349	251	253	64	97	95	5		58.5
7	1:16	2.89	66	63.93	319	249	249	65	98	95	5		63, 151 / .86
Total		7.070	337	05,92	1396								
Average									389	380			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 2 of 3

Client	Big Rivers			Water [ml] [g]	
Plant	Covington, La			Silica gel (g)	95
Location	ESP-3			Total Vlc	-16.5
Date	7-14-11			Probe ID	AES-12.1
Meter Operator	RH			Nozzle ID	225.25
Probe Operator	NJA			Filter ID	NJA
Meter ID	M-10	Yd	1.0091	Train ID	25
AH@	1.819	Kf	1.68	Duct Dim. (in)	
Pre Leak Check	0.01	(cfm) [rpm] @	20		
Post Leak Check	0.01	(cfm) [rpm] @	15		
First point all the way <u>(in)</u> (out)					
Gas flow [in] (out) of page					
Cross Section of Duct				Start Time	
				Stop Time	

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	58.5	.39	.66	27.50	310	250	250	60	99	98	5	AAA	
7	53.6	.41	.69	29.81	341	249	252	63	99	98	5		
3-1	57.3	.39	.66	31.86	346	251	252	62	99	98	5		32.45
2	62.72	.39	.66	37.26	347	250	256	62	99	98	5		Subject - 2.64
3	66.57	.45	.76	39.45	348	250	255	62	99	97	5		13.5
4	71.81	.45	.76	41.63	348	250	256	62	99	97	5		18
5	75.5	.45	.76	43.76	348	251	249	63	99	97	5		22.5
6	80.90	.45	.76	45.99	350	250	250	63	99	97	5		27
7	84.94	.45	.76	48.08	349	250	252	61	98	97	5		31.5
4-1	89.9	.47	.79	50.21	349	250	257	61	98	97	5		36
2	89.5	.47	.79	52.34	350	250	249	64	98	97	5		40.5
7	98.10	.47	.79	54.75	349	251	253	64	99	98	5		43
Total	126	.6604	8.84		4165				1185	1169			
Average													

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

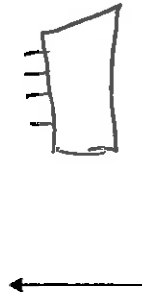
General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 2 METHOD NO. 29 Page 1 of 3

Client	Big River	
Plant	Owensboro, KY	
Location	ESP-3	
Date	7-14-11	Project No. 2018
Meter Operator	MH	
Probe Operator	WR	
Meter ID	M-10	Yd 746
ΔH@	1.819	Kf 2.99
Pre Leak Check	0.00	[Cm] [rpm] @ 15 (inHg)
Post Leak Check	0.00	[Cm] [rpm] @ 18 (inHg)

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Stale (inH ₂ O)	16.5	Total Vic	
Probe ID	AES-12-1	Liner Type	TFL
Nozzle ID	250	Nozzle Dia (in)	.2506
Filter ID	NA		
Train ID	9	Train Type	TMP
Duct Dim (in)	102" x 102"	Port Length (in)	43"
Start Time	13:43	Stop Time	15:58



First point all the way (in) (out) of page
Gas flow [in] (out) of page

Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	.43	1.1	70.74	348	251	257	60	100	98	9	NA	
2	9	.49	1.1	73.32	348	252	255	61	100	98	9		
3	13.5	.46	1.1	75.90	348	250	250	60	100	98	9		
4	18	.43	1.1	78.48	348	250	250	61	101	97	9		
5	22.5	.42	1.1	80.7	350	250	250	61	107	96	9		81.10
6	27	.41	1.0	83.60	349	251	253	61	108	96	9		
7	31.5	.39	.97	86.10	351	250	250	62	107	101	9		
1-1	36	.43	1.1	88.72	348	250	249	63	106	103	9		
2	50.5	.42	1.1	91.35	351	251	253	62	106	103	9		
3	54	.41	1.1	93.96	352	250	256	60	100	99	9		15
4	58.5	.44	1.1	96.57	348	251	252	57	100	99	9		19.5
5	54	.41	1.0	99.19	348	253	249	55	101	98	9		
Total		.6518	12.87	72.79	4189				123C	1186			
Average		.6499	1.07	348.35						99.60			

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

METHOD NO. 29

RUN NO. 2

Client	<u>Big Boxes</u>			Water [ml] [g]	
Plant	<u>Quincy Blvd, Ky</u>			Silica gel (g)	<u>95</u>
Location	<u>ESP-3</u>			Total Vlc	<u>-16.5</u>
Date	<u>7-11-11</u>			Project No.	
Meter Operator	<u>MH</u>			Probe ID	<u>AES-12-1</u>
Probe Operator	<u>DR</u>			Nozzle ID	<u>.250</u>
Meter ID	<u>M-10</u>	Yd	<u>1.0091</u>	Filter ID	<u>N/A</u>
ΔH@	<u>1.819</u>	Kf	<u>2.118</u>	Train ID	<u>4</u>
Pre Leak Check	<u>0.00</u>	[cfm] [ppm] @	<u>1.8</u>	Duct Dim. (in)	
Post Leak Check		[cfm] [ppm] @		Start Time	<u>13:13</u>
				Stop Time	



First point all the way in (out) of page
Gas flow [in] (out) of page

Cross Section of Duct	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	4.5						250	250	60	100	101	10	N/A	
2-6	58.5		.46	1.1	68.16	345	251	252	59	100	101	10		
3	63		.45	1.1	104.48	346	251	250	58	100	101	10		
3-1	67.5		.45	1.1	107.13	347	250	252	58	100	101	10		
2	72		.45	1.0	109.78	345	249	251	58	100	100	10		
3	76.5		.49	1.2	112.49	345	251	250	62	101	99	10		
4	81		.49	1.2	115.20	350	250	250	61	101	99	10		
5	85.5		.39	.97	117.62	349	249	251	60	101	99	09		
6	90		.40	.94	120.07	350	250	254	60	99	98	9		
7	94.5		.40	.99	122.60	351	251	257	60	98	98	9		
4-1	99		.43	1.1	125.20	352	252	256	60	98	96	9		
2	103.5		.42	1.1	127.80	348	249	249	62	98	96	9		
3	108		.49	1.2	130.50	347	251	250	68	99	97	9		
Total										1195	1185			
Average						4175								

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

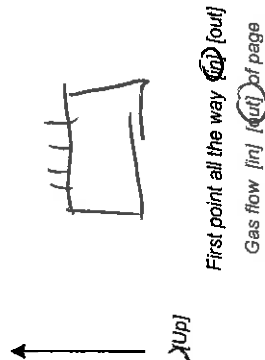
General Testing Data Sheet

Page 3 of 3

TESTING TYPE: Metals

RUN NO. 2 METHOD NO. 29

Client	Big River						Water (ml) [g]	
Plant	Osoyaboso, KY						Silica gel (g)	
Location	ESP-3						Total Vlc	
Date	7-11-11			Project No.			Liner Type	TFL
Meter Operator	ML						Nozzle Dia (in)	
Probe Operator	NR						Filter ID	N/A
Meter ID	M-10	Yd	(.0091	Pitot Cp	180	Train ID	4	
$\Delta H @$	1.819	Kr	2.49	Leak check	<input checked="" type="checkbox"/>	Duct Dim. (in)		
Pre Leak Check	0.00	[cfm]	[lpm] @	[inHg]		Start Time	13:43	
Post Leak Check		[cfm]	[lpm] @	[inHg]		Stop Time		



Cross Section of Duct	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	250	60	98	96	9	N/A	
4	250	62	98	96	9		
5	250	62	98	96	9		
6	250	62	98	96	9		
7	250	62	98	96	9		
Total							392
Average							389

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

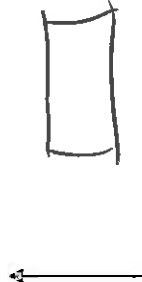
METHOD NO. 29

Page 1 of 3

RUN NO. 3

Client	Big Rivers		
Plant	Crawensboro, RI		
Location	ESP-3		
Date	7-14-11	Project No.	3648
Meter Operator	MH		
Probe Operator	NR		
Meter ID	M-10	Yd	1.0091
ΔH@	1.819	Kf	2.119
Pre Leak Check	0.00	[cfm] [lpm] @	20 (inHg)
Post Leak Check	0.00	[cfm] [lpm] @	10 (inHg)
Pilot Cp	.81		
Leak check	✓		

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total V/c	
Probe ID	AFS-12-1	Liner Type	TFL
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA		
Train ID	2S	Train Type	IMP
Duct Dim. (in)	102" x 62"	Port Length (in)	43"
Start Time	16:43	Stop Time	18:58



(M) (Up)
 First point all the way [in] [out]
 Gas flow [in] [out] of page
 Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Volume Initial [ft ³] [l]	Temp (°F)									
1-1	4.5	2.45	1.1	146.84	348	250	251	252	60	95	93	7	NA	
2	9	2.45	1.1	149.54	350	251	251	253	60	96	94	7		
3	13.5	2.43	1.1	152.23	348	253	253	249	58	96	94	7		
4	18	2.45	1.1	154.74	350	251	251	251	56	96	94	7		
5	22.5	2.40	0.99	157.25	341	250	250	250	56	96	94	7		
6	27	2.42	1.0	159.75	340	250	251	251	56	95	93	7		
7	31.5	2.40	0.99	162.25	345	250	250	250	58	95	93	7		
2-1	36	2.41	1.0	164.78	345	249	249	250	60	94	95	7		
2	40.5	2.41	1.0	167.30	345	250	250	249	61	94	95	7		
3	45	2.41	1.0	169.84	345	251	251	247	61	94	92	7		
4	49.5	2.41	1.0	172.32	345	250	250	251	61	94	92	7		
5	54	2.40	0.99	174.80	344	250	250	250	60	94	92	7		
Total	10:00			1717.79	4152					1139	1191			
Average				344.71	344.71						94.25			

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 2 of 3

Client		Big Rivers		Water [ml] [g]		
Plant		Owensboro, KY		Silica gel. (g)		95
Location		ESP-3		Total V/c		-16.5
Date		7-19-11		Project No.		
Meter Operator		M11		Probe ID		AES-12-1
Probe Operator		NR		Nozzle Dia (in)		.250
Meter ID	M-10	Yd	10091	Liner Type	TFG	
ΔH@	1.819	Kf	2.119	Train ID	25	
Pre Leak Check	0.00	[cfm] [lpm] @	20	Port Length (in)	TMA	
Post Leak Check		[cfm] [lpm] @		Barometric (inHg)		
		Pilot Cp		Ambient Temp (°F)		
		Leak check		Static (inH ₂ O)		
		V		Probe ID		
		[cfm] [lpm] @		Nozzle Dia (in)		
		[cfm] [lpm] @		Filter ID		
				Train ID		
				Duct Dim. (in)		
				Start Time		16:43
				Stop Time		

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	58.5	.39	.97	177.43	345	250	250	61	94	92	7	NA	
7	63	.39	.97	179.76	345	250	250	61	94	92	7		
3-1	67.5	.43	.97	182.38	346	250	250	62	95	93	7		
2	72	.43	.97	185.00	346	251	249	61	95	93	7		
3	76.5	.43	1.1	187.60	345	250	249	62	95	93	7		
4	81	.43	1.1	190.21	345	251	250	63	95	93	7		
5	85.5	.40	1.0	192.82	345	250	251	63	95	96	7		
6	90	.39	.97	195.48	344	251	248	60	95	96	7		
7	94.5	.39	.97	197.88	344	252	256	58	95	96	7		
4-1	99	.45	1.2	200.62	341	250	250	51	96	96	7		
2	103.5	.43	1.1	203.30	344	251	251	51	96	96	7		
3	108	.42	1.1	205.97	345	250	250	53	95	94	7		
Total									1140	1130			
Average													

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 3 of 3

Client	Big River			
Plant	Owensboro, KY			
Location	ESP-3			
Date	7-14-11	Project No.		
Meter Operator	MH			
Probe Operator	WV			
Meter ID	M-10	Yd	1.0081	Pitot Cp .81
ΔH@	1.81A	Kf	2.49	Leak check <input checked="" type="checkbox"/>
Pre Leak Check	0.00	(cfm)	(ppm) @	2.0 (inHg)
Post Leak Check	0.00	(cfm)	(ppm) @	1.5 (inHg)

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-16.5	Total Vlc	
Probe ID	AES-12-1	Liner Type	PTFL
Nozzle ID	ZS	Nozzle Dia (in)	
Filter ID	NA	Train Type	JMP
Train ID	ZS	Port Length (in)	
Duct Dim. (in)			
Start Time		Stop Time	

↑
 (M) [Up] First point all the way [in] [out]
 Gas flow [in] [out] of page
 Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	112.5	.41	1.0	208.66	310	250	250	62	94	93	7	NA	
5	117	.40	1.0	211.35	341	251	250	63	94	93	7		
6	122.5	.40	1.0	214.05	311	251	250	62	94	93	7		
7	126	.39	.92	215.98	310	252	250	63	94	92	7		
Total		.6394	1.925	71.78	1362								
Average									326	377			

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3642

Client	Pig River Energy - Wilson Station		
Plant	Auburn, KY		
Location	ESP Exhaust		
Date	7-15-11	Time	3
Operator	ML		

Run No.	1				
Method No.	29	Filter No.		Filter No.	NA
	Contents	Start (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	634.2	375.1	SD	
Impinger No. 2	5% / 10%	708.1	731.0		
Impinger No. 3	5% / 10%	734.0	742.0		
Impinger No. 4	Empty	734.0 636.5	642.8		
Impinger No. 5	Silica	957.9	967.1		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
					Net Weight (g)

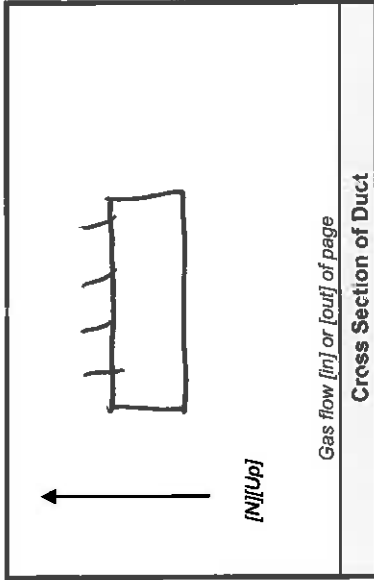
Run No.	2				
Method No.	29	Filter No.		Filter No.	NA
	Contents	Start (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	653.4	807.3	SD	
Impinger No. 2	5% / 10%	743.4	763.6		
Impinger No. 3	5% / 10%	657.2	668.1		
Impinger No. 4	Empty	615.7	622.5		
Impinger No. 5	Silica	879.8	908.6		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
					Net Weight (g)

Run No.	3				
Method No.	29	Filter No.		Filter No.	NA
	Contents	Start (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	638.9	806.2	SD	
Impinger No. 2	5% / 10%	736.8	758.2		
Impinger No. 3	5% / 10%	715.8	723.0		
Impinger No. 4	Empty	641.0	643.6		
Impinger No. 5	Silica	768.3	904.7		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
					Net Weight (g)

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Client	Big Rivers
Plant	Anderson, KY
Location	ESP-3
Date	7-15-11
Project No.	3048
Meter Reader	MH



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-16.5
Ambient Temp. (°F)	95
Start Time	8:26
Stop Time	9:39

9/1/67

Sample Train A Unspiked Trap

Trap ID	M-25	Meter ID	9994	Yd	9994
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	11	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94226	Meter ID	M-25	Yd	9994
Pre Leak Check	0.00	lpm @	11	(in. Hg)	
Post Leak Check	0.00	lpm @	11	(in. Hg)	

10017

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0.00				
3.45	.3	1.30	333	100	5	
7.5	.3	2.55	333	105	5	
11.15	.3	3.78	333	107	5	
15	.3	5.13	333	108	5	
18.45	.3	6.32	335	108	5	
22.5	.3	7.63	336	108	5	
26.15	.3	8.98	337	108	5	
30	.3	10.26	336	111	5	30
33.75	.3	11.52	335	117	5	33.75
37.5	.3	12.51	336	118	5	37.50
41.25	.3	13.89	340	120	5	41.25
45	.3	15.34	340	121	5	45.
Total		30.11	8109	2789		
Average			337.686	116.24		

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0.00				
3.75	.3	1.39	333	101	1	
7.5	.3	2.71	333	106	1	
11.15	.3	4.82	333	109	1	
15	.3	5.19	333	116	1	
18.45	.3	6.48	335	110	1	
22.5	.3	7.802	336	113	1	
26.15	.3	9.10	337	114	1	
30	.3	10.39	336	115	1	
33.75	.3	11.74	335	118	1	
37.5	.3	13.12	336	120	1	
41.25	.3	14.39	340	121	1	
45	.3	15.71	340	121	1	
Total		31.39	8109	2810		
Average			337.686	117.06		

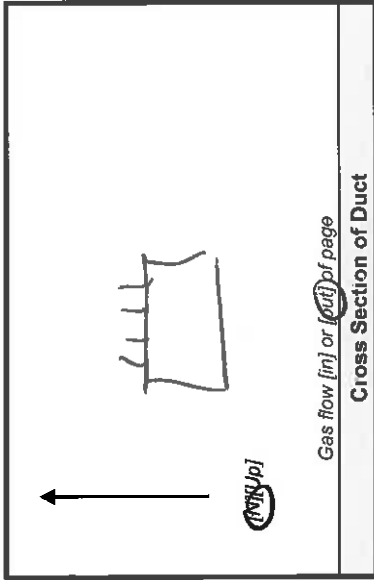
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AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Client	Big Rivers
Plant	Outlebsbery Ry
Location	ESP-3
Date	7-15-11
Project No.	3648
Meter Reader	MH



Barometric (in. Hg)	
Static (InH ₂ O)	-16.5
Ambient Temp. (°F)	95
Start Time	8:08
Stop Time	

Sample Train A Unspiked Trap

Trap ID	94467	Meter ID	M-25	Yd	-9994
Pre Leak Check	0.00	ipm @		11	(in. Hg)
Post Leak Check		ipm @			(in. Hg)

Sample Train B Spiked Trap

Trap ID	94226	Meter ID	M-25	Yd	9994
Pre Leak Check	0.00	ipm @		11	(in. Hg)
Post Leak Check		ipm @			(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0.00				
Elapsed Time						
48.75	.3	16.17	340	120	5	51
52.5	.3	17.51	340	121	5	
56.25	.3	18.93	340	119	5	2
60	.3	20.34	341	119	5	
63.75	.3	21.39	340	120	5	3
67.5	.3	23.02	340	120	5	
71.25	.3	24.05	340	122	7	4-1
75	.3	25.26	341	122	7	
78.75	.3	26.13	339	123	7	2
82.5	.3	27.60	340	123	7	
86.25	.3	29.03	340	123	6	3
90	.3	30.11	341	123	6	
Total		36.11				
Average						

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Elapsed Time						
48.75	.3	17.01	340	120	1	
52.5	.3	18.27	340	120	1	
56.25	.3	19.82	340	118	1	
60	.3	20.87	341	119	1	
63.75	.3	22.31	340	120	1	
67.5	.3	23.42	340	126	1	
71.25	.3	24.84	340	122	1	
75	.3	26.07	340	122	1	
78.75	.3	27.38	339	123	1	
82.5	.3	28.26	340	123	1	
86.25	.3	29.89	340	123	1	
90	.3	31.39	341	122	1	
Total		36.39				
Average						

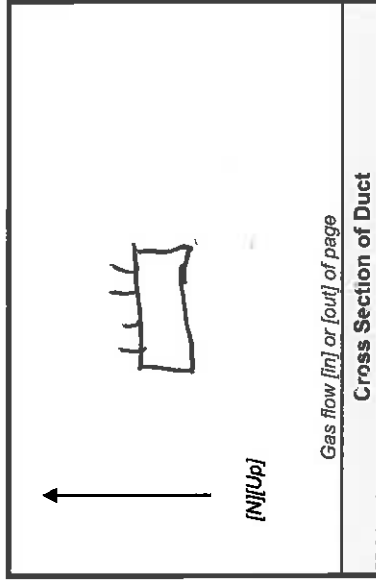
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	Big Rivers
Plant	Oppensberg, AL
Location	FSP-3
Date	7-15-11
Project No.	364B
Meter Reader	MH



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-16.5
Ambient Temp (°F)	95
Start Time	11:15
Stop Time	12:46

Sample Train A Unspiked Trap

Trap ID	99992	Meter ID	M-25	Yd	99994
Pre Leak Check	0.00	ipm @	10	(in. Hg)	
Post Leak Check	0.00	ipm @	15	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94243	Meter ID	M-25	Yd	99994
Pre Leak Check	0.00	ipm @	10	(in. Hg)	
Post Leak Check	0.00	ipm @	15	(in. Hg)	

1.0017

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.3	1.26	343	107	4	
7.5	.3	2.63	343	107	4	
11.15	.3	3.91	341	109	4	
15	.3	5.10	341	111	4	
18.45	.3	6.37	344	115	4	
22.5	.3	7.78	345	122	4	
26.15	.3	8.92	344	122	4	
30	.3	10.2	345	124	5	
33.75	.3	11.59	343	126	5	
37.5	.3	12.79	344	126	6	
41.25	.3	14.11	341	128	6	
45	.3	15.39	343	130	7	
Total		31.06	8232	3046		
Average			343.0	126.92		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.3	1.31	373	109	1	
7.5	.3	2.62	343	109	1	
11.15	.3	3.98	341	109	1	
15	.3	5.36	341	111	1	
18.45	.3	6.47	344	115	1	
22.5	.3	7.91	344	123	1	
26.15	.3	9.18	345	123	1	
30	.3	10.45	344	134	1	
33.75	.3	11.85	343	124	1	
37.5	.3	13.17	344	126	1	
41.25	.3	14.43	341	128	1	
45	.3	15.74	343	129	1	
Total		31.73	8232	3027		
Average			343.0	126.13		

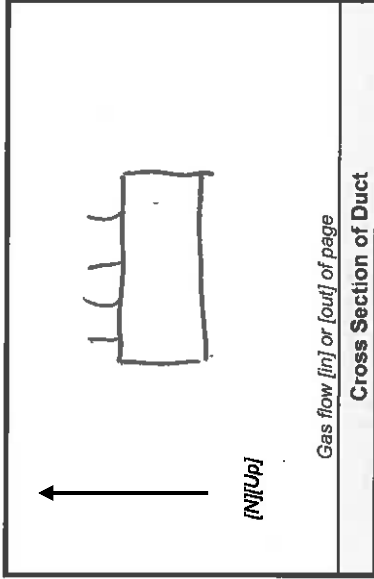
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	Big Rivers
Plant	Oxensboro, Ky
Location	ESP-3
Date	7-15-11
Project No.	
Meter Reader	MH



Barometric (in. Hg)	
Static (inH ₂ O)	~16.5
Ambient Temp. (°F)	95
Start Time	11:15
Stop Time	

Sample Train A Unspiked Trap

Trap ID	94452	Meter ID	M-25	Yd	.9994
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	15	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
Elapsed Time		0				
48.75	.3	16.57	341	132	9	
52.5	.3	17.96	342	133	9	
56.25	.3	19.19	342	134	9	
60	.3	20.79	343	135	9	
63.75	.3	22.89	344	133	9	
67.5	.3	22.54	344	133	9	
71.25	.3	23.85	341	134	9	
75	.3	25.96	344	135	9	
78.75	.3	27.53	341	136	9	
82.5	.3	28.50	344	137	9	
86.25	.3	29.21	344	138	9	
90	.3	31.06	345	139	9	
Total						
Average						

Sample Train B Spiked Trap

Trap ID	94243	Meter ID	M-25	Yd	.9994
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	10	(in. Hg)	

1.0017

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Elapsed Time		0				
48.75	.3	17.11	341	127	1	
52.5	.3	18.36	342	128	1	
56.25	.3	19.69	343	129	1	
60	.3	20.99	345	130	1	
63.7	.3	22.52	344	131	1	
67.5	.3	23.71	344	133	1	
71.25	.3	24.92	344	134	1	
75	.3	26.33	344	135	1	
78.75	.3	27.27	345	136	1	
82.5	.3	28.99	344	137	1	
86.25	.3	30.59	344	138	1	
90	.3	31.73	345	139	1	
Total						
Average						

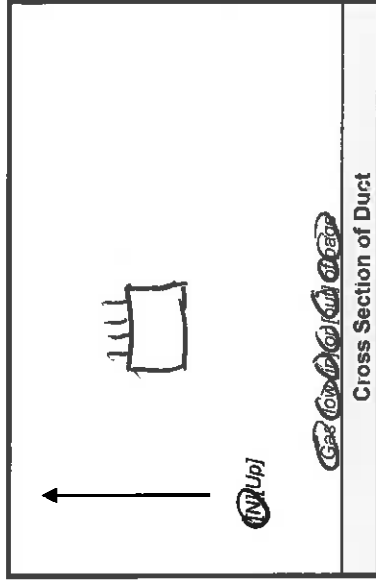
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	Big Rivers
Plant	Owensboro, Ky
Location	FSP-3
Date	7-15-11
Project No.	3048
Meter Reader	MLH



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-16.5
Ambient Temp. (°F)	95
Start Time	14:00
Stop Time	16:12

Sample Train A Unspiked Trap

Trap ID	94427	Meter ID	M-25	Yd	8
Pre Leak Check	0.00	lpm @			
Post Leak Check	0.00	lpm @			

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	.3	0				
3.75	.3	1.28	341	111	4	1-1
7.5	.3	2.56	341	114	4	
11.25	.3	3.92	342	119	4	2
15	.3	5.21	341	119	4	
18.75	.3	6.45	340	120	4	3
22.5	.3	7.69	342	121	4	
26.25	.3	9.18	344	123	4	2-1
30	.3	10.49	344	124	4	
33.75	.3	12.67	344	125	4	2
37.5	.3	12.96	343	126	4	
41.25	.3	14.43	342	128	4	3
45	.3	15.39	341	129	4	
Total		31.11	3246	3054		
Average			243.56	127.25		

Sample Train B Spiked Trap

Trap ID	94306	Meter ID	M25	Yd	1.6017
Pre Leak Check	0.00	lpm @	9		(in. Hg)
Post Leak Check	0.00	lpm @	5		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	.3	0				
3.75	.3	1.34	341	113	1	
7.5	.3	2.69	341	125	1	
11.25	.3	4.03	342	115	1	
15	.3	5.34	341	119	1	
18.75	.3	6.71	340	120	1	
22.5	.3	8.02	342	123	1	
26.25	.3	9.50	344	123	1	
30	.3	10.77	344	124	1	
33.75	.3	13.15	344	125	1	
37.5	.3	14.59	343	129	1	
41.25	.3	15.26	342	131	1	
45	.3	16.64	341	133	1	
Total		32.90	8246	3065		
Average			343.58	127.71		

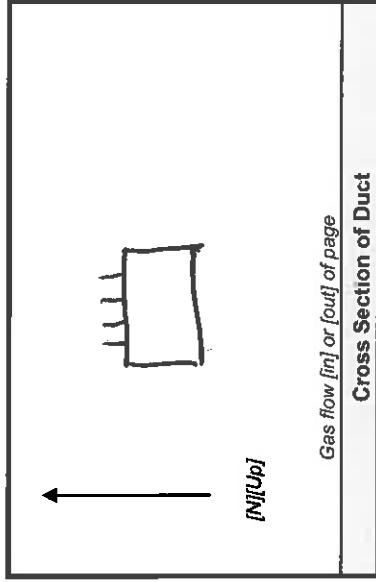
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	Big Rivers
Plant	Queensboro, NY
Location	ESP-3
Date	7-15-11
Project No.	
Meter Reader	MH



Barometric (in. Hg)	
Static (inH ₂ O)	-16.5
Ambient Temp. (°F)	95
Start Time	14:04
Stop Time	

Sample Train A Unspiked Trap

Trap ID	94427	Meter ID	M-25	Yd	9441
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	10	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0				
Elapsed Time						
18.75	.3	17.0	345	130	5	
52.5	.3	18.19	345	131	5	
56.25	.3	19.56	345	130	5	
60	.3	20.62	344	131	5	
68.75	.3	22.10	346	132	6	
67.5	.3	23.22	345	133	6	
71.25	.3	24.98	345	133	6	
75	.3	25.91	345	133	6	
78.75	.3	27.30	346	133	5	
82.5	.3	28.81	344	135	5	
86.25	.3	30.09	345	137	6	
90	.3	31.11	346	137	6	
Total						
Average						

Sample Train B Spiked Trap

Trap ID	94306	Meter ID	M-25	Yd	1.0017
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	5	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0				
Elapsed Time						
48.75	.3	17.57	345	131	1	
52.5	.3	19.03	345	130	1	
56.25	.3	20.39	345	131	1	
60	.3	21.95	344	131	1	
68.75	.3	23.29	346	132	1	
67.5	.3	24.67	345	133	1	
71.25	.3	25.99	345	133	1	
75	.3	27.59	345	133	1	
78.75	.3	28.96	344	133	1	346
82.5	.3	30.52	344	135	1	
86.25	.3	32.46	345	136	1	
90	.3	32.90	346	137	1	
Total						
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

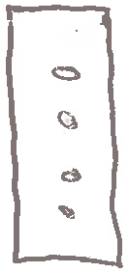
TESTING TYPE: Particulate

RUN NO. 1

METHOD NO. 5B/200

Page 7 of 1

Client	89 Rivers - W. Ken		
Plant	Dunnboro, KY		
Location	ESP Outlet #4		
Date	7/15/11	Project No.	3642
Meter Operator	BK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.0/11
ΔH@	1.272	Kf	2.6
Pre Leak Check	.000	[fpm] [lpm] @	15 (inHg)
Post Leak Check	0.00	[cfm] [lpm] @	10 (inHg)
Water [ml] [g]	22.56	Silica gel (g)	95
Ambient Temp (°F)	95	Total Vic	-17
Static (inH ₂ O)	-17	Probe ID	AE-5-10-2
Probe ID	AE-5-10-2	Liner Type	glass
Nozzle ID	12073	Nozzle Dia (in)	0.277
Filter ID	12073	Train Type	Imp
Train ID	EB #3	Port Length (in)	37.43"
Duct Dim. (in)	1.62" x 1.62"		



First point all the way [in] [out] of page
Gas flow [in] [out] of page

Start Time	8:02	Stop Time	9:39
Cross Section of Duct			

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume (ft ³) [l]		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Initial	Final									
1-1	3:15	.47	1.2	770.20	781.83	301	320	307	46	103	103	11	N/A	Nozzle ID: 0.27 BK
2	6:30	.49	1.2	783.70	785.59	306	319	320	43	103	103	11		
3	4:45	.49	1.2	787.40	789.23	304	319	324	42	103	103	11		
4	13	.47	1.2	791.03	792.94	308	320	322	40	104	104	11		
5	16:15	.50	1.1	794.71	796.63	309	321	320	39	105	105	11		
6	18:30	.44	1.2	800.54	802.44	309	320	320	38	105	105	11		
7	20:45	.44	1.1	804.14	806.04	309	321	320	40	105	105	11		
2-1	28	.50	1.3	808.54	810.44	309	321	321	42	106	106	11		
3	30:15	.47	1.1	814.14	816.04	309	321	321	42	106	106	11		
4	32:30	.44	1.1	818.54	820.44	309	321	321	43	106	106	11		
5	34:45	.44	1.1	822.94	824.84	309	322	321	43	106	106	11		
Total	39	.50	1.3	828.34	830.24	309	322	321	43	106	106	11		
Average			1.25	834.74	836.64	303.03	320	320	43	104.28	104.28	11		

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: Particulate

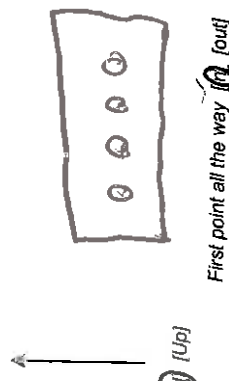
RUN NO. 1

METHOD NO. 5b/202

Page 2 of 3

Client	Big Rivers - Wilson		
Plant	Diversiform Ky		
Location	ESP Outlet #4		
Date	7/15/11	Project No.	30.46
Meter Operator	AK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.014
ΔH@	1.772	Kf	2.61
Pre Leak Check	1.000	[cfm] [ppm] @	15 (inHg)
Post Leak Check		[cfm] [ppm] @	
Pilot Cp	.84		
Leak check	✓		

Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	96	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vc	
Probe ID	AE-5-10-2	Liner Type	01035
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	120232		12023
Train ID	EB3	Train Type	IMP
Duct Dim. (in)	102" x 162"	Port Length (in)	37 1/2"



Start Time		Stop Time	
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	42:15	.50	1.3	780.20	297	317	320	43	106	98	11	NA	
7	45:30	.47	1.1	806.51	299	317	318	45	107	98	11		
3-1	48:45	.50	1.3	808.54	299	319	321	45	107	98	11		
2	50	.48	1.2	810.57	298	319	319	45	108	99	11		
3	55:15	.45	1.1	812.56	298	323	323	47	107	98	11		
4	58:30	.50	1.3	814.60	298	319	320	47	108	98	11		
5	61:45	.47	1.1	816.55	298	320	321	48	109	99	11		
6	65	.55	1.4	818.61	299	322	323	49	109	100	11		
7	69:15	.50	1.3	820.77	299	321	321	49	109	100	11		
4-1	72:30	.47	1.1	822.56	299	318	319	51	110	101	11		
2	74:45	.44	1.0	824.39	299	322	322	51	110	101	11		
3	78	.50	1.3	826.30	302	317	318	52	110	101	11	✓	
Total			35.1	54.15	295				2995	2849			
Average			1.25	303.03					109.28				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: particulate

RUN NO. 1

METHOD NO. 58/202

Page 3 of 3

Client	Big Rivers - W. 120c	
Plant	Quershard, Ky	
Location	E. 51 outlet #4	
Date	7/18/11	Project No. 3648
Meter Operator	BK	
Probe Operator	AL	
Meter ID	M-17	Yd 1.0141
ΔH@	1.772	Kf 2.61
Pre Leak Check	1000	CFM [ppm] @ 1.5
Post Leak Check		[cfm] [ppm] @

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	45	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vlc	
Probe ID	AE-5 10-2	Liner Type	90a55
Nozzle ID	27	Nozzle Dia (in)	1.27
Filter ID	20781		
Train ID	TR #3	Train Type	IMP
Duct Dim. (in)	1.62 x 1.62	Port Length (in)	21.45

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Gas flow [in] Out of page

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	81:15	.47	1.0	780.20	301	320	320	55	110	101	11	N/A	
5	84:30	.55	1.4	827.41	305	324	325	56	111	102	11		
6	87:45	.55	1.4	830.53	305	321	324	56	111	102	11		
7	91:	.50	1.3	832.35	306	320	322	59	112	103	11		
Total					8485								
Average			35.1	59.15	303.03								2756.4844 (104.28)

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

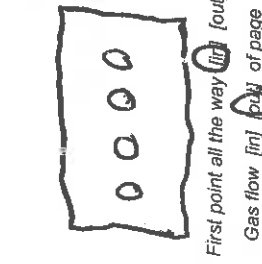
TESTING TYPE: Particulate

METHOD NO: 5B/202

RUN NO. 2

Page 1 of 1

Client		Big Rivers - Wilson	
Plant		Owensboro, KY	
Location		EGP Outlet #4	
Date		7/15/11	
Meter Operator		BK	
Project No.		3048	
Probe Operator		AL	
Meter ID	M-17	Yd	1.0141
ΔH@	1.772	Kr	2.61
Pre Leak Check	0.00	[Δm] [ppm]	1.5
Post Leak Check	1.00	[Δm] [ppm]	1.0
Pilot Cp	1.84	Leak check	✓



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vic	
Probe ID	AE-5-10-2	Liner Type	GLSS
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	12126	Train Type	Imp
Train ID	508	Port Length (in)	37 43"
Duct Dim. (in)	12" x 12"		

Start Time	11:15	Stop Time	12:46
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Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:15	2.50	1.2	840.18	307	321	318	51	103	99	7	N/A	
2	6:30	2.47	1.2	842.12	307	320	325	51	105	99	7		
3	9:45	2.44	1.0	844.09	307	318	320	49	105	99	7		
4	13	2.50	1.3	845.83	311	321	318	48	108	100	7		
5	16:15	2.49	1.2	847.54	310	322	318	48	109	100	7		
6	19:30	2.55	1.4	849.69	310	318	322	48	109	100	7		
7	22:45	2.47	1.2	851.81	310	317	317	45	109	100	7		
2-1	26	2.49	1.2	853.78	310	318	318	49	108	99	7		
2	29:15	2.50	1.3	855.84	310	324	321	49	109	99	8		
3	32:30	2.45	1.1	857.68	310	321	319	51	109	99	8		
4	35:45	2.49	1.2	859.71	311	322	323	52	108	100	8		
5	39	2.50	1.3	861.60	311	318	322	54	109	100	8		
Total			39.9		8688				3057	2817			
Average		2.018	1.24		3017				104.9				

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: particulate

RUN NO. 2

METHOD NO. 5/202

Page 2 of 3

Client	Big Rivers - W:160		
Plant	Owensboro, Ky		
Location	ESP Outlet #4		
Date	7/15/11	Project No.	3048
Meter Operator	AK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.0141
ΔH@	1.777	Kf	2.61
Pre Leak Check	1000	[cfm] [ppm] @	15 (inHg)
Post Leak Check	100	[cfm] [ppm] @	10 (inHg)
Pitot Cp		.84	
Leak check		✓	



First point all the way [in] [out] of page
Gas flow [in] [out] of page

Barometric (inHg)	29.56	Water (ml)	0
Ambient Temp (°F)	95	Silica gel (g)	0
Static (inH ₂ O)	-17	Total Vlc	0
Probe ID	AE-5-10-2	Liner Type	glass
Nozzle ID	127	Nozzle Dia (in)	.27
Filter ID	12126	Train Type	imp
Train ID	IBB	Port Length (in)	3.43
Duct Dim. (in)	12.2" x 10.2"		
Start Time	11:15	Stop Time	12:46

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	42:15	.53	1.4	837.90	310	320	320	57	108	100	8	N/A	
7	45:30	.49	1.2	865.77	311	321	320	61	109	100	8		
7-1	48:45	.50	1.3	867.84	311	329	320	61	109	100	8		
2	52	.49	1.2	869.84	311	324	321	59	109	100	8		
3	55:15	.45	1.1	871.81	311	324	323	57	110	101	8		
4	58:30	.49	1.2	873.86	311	322	322	57	110	101	8		
5	61:45	.47	1.2	875.83	310	320	322	55	110	101	8		
6	65	.55	1.4	877.89	311	320	322	54	111	102	8		
7	68:15	.50	1.3	879.82	311	319	320	54	111	102	8		
4-1	71:30	.49	1.2	881.79	311	317	317	52	111	102	8		
2	74:45	.50	1.3	883.83	311	310	320	50	111	102	8		
3	78	.47	1.2	885.75	311	302	300	47	111	102	8		
Total			34.9		868.8				305.7	281.7			
Average			(1.04)		(36.3)				(104.9)				

Circle correct bracketed [] units
Train Type denotes impinge-s, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

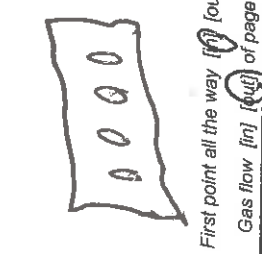
TESTING TYPE: particulate

METHOD NO. 5B/202

Page 3 of 3

Client		B.G. Rivers - Wilson	
Plant		DWR - 6000 - RY	
Location		ESP Ducts #14	
Date		7/15/11	
Meter Operator		BK	
Project No.		3646	
Meter ID	M-17	Yd	1014
ΔH@	1.772	Kf	261
Pre Leak Check	1.000	[cfm] [lpm]	15
Post Leak Check	1.000	[cfm] [lpm]	10
Pilot Cp	274	Leak check	<input checked="" type="checkbox"/>

Barometric (inHg)	27.56	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-1.7	Total Vlc	
Probe ID	AE-5-102	Liner Type	glass
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	12126	Train Type	Forp
Duct Dim. (in)	102" x 102"	Port Length (in)	31.43"



Start Time	11:15	Stop Time	12:46
Cross Section of Duct			

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4	81.15	.49	1.0	837.40	311	320	320	47	111	102	8	NA	
5	84.30	.50	1.3	889.74	311	321	319	47	111	102	8		
6	87.45	.54	1.4	891.77	311	323	320	49	112	103	8		
7	91	.49	1.2	893.73	311	320	322	51	112	103	8		
Total					8686								
Average			34.9		310.3								305.22817 (104.9)

Circle correct bracketed [] units
Train Type denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 3

METHOD NO. 58/202

Page 1 of 1

Client		Big Rivers-Wilson	
Plant		Owensboro Ky	
Location		Esp outlet #4	
Date		7/15/11	
Meter Operator		BK	
Probe Operator		AL	
Meter ID	M-17	Yd	1.0141
ΔH@	1.772	Kf	2.61
Pre Leak Check	.000	[cfm] [ppm] @	15
Post Leak Check	.000	[cfm] [ppm] @	10
Project No.		3048	
Pilot Cp		.84	
Leak check		✓	



Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	45	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vlc	
Probe ID	AE-5-10-2	Liner Type	91-15
Nozzle ID	12144	Nozzle Dia (in)	.27
Filter ID	I83	Train Type	Emp
Train ID	102 x 162	Port Length (in)	31
Duct Dim (in)			
Start Time	19:04	Stop Time	16:12

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	3:15	.47	1.2	899.20	307	320	320	52	104	99	7	N/A	
2	6:30	.50	1.3	901.78	308	324	322	50	106	100	7		
3	9:45	.49	1.2	905.83	307	321	316	50	109	100	7		
4	13	.49	1.1	907.82	307	322	318	48	109	100	7		
5	16:15	.49	1.2	909.81	307	323	320	47	110	101	7		
6	19:30	.55	1.4	911.76	308	322	319	46	112	102	7		
7	22:45	.50	1.3	913.73	307	319	320	46	111	102	7		
2-1	26	.49	1.2	915.57	307	321	319	46	111	103	7		
2	29:15	.47	1.2	917.64	307	321	323	45	111	103	7		
3	32:30	.50	1.3	920.30	307	319	322	45	111	103	7		
4	35:45	.45	1.2	922.44	308	316	320	46	112	103	7		
5	39	.44	1.1	923.89	308	318	319	46	112	103	7		
Total				56.19	8616				3117	2992			
Average				(1.25)	(327.7)				(109.7)	(107.4)			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

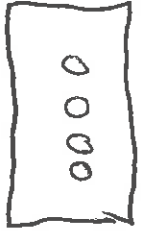
TESTING TYPE: particulate

RUN NO. 3

METHOD NO. 5B/202

Page 2 of 3

Client	Big Rivers - Wilson		
Plant	Owensboro, Ky		
Location	Esp Outlet #4		
Date	7/15/11	Project No.	3048
Meter Operator	BK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.0141
ΔH@	1.772	KF	2.61
Pre Leak Check	COO	[ppm] [ppm] @	15 (inHg)
Post Leak Check	COO	[ppm] [ppm] @	10 (inHg)
Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	45	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vlc	
Probe ID	AP-5-10-2	Liner Type	glass
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	12144	Train Type	Imp
Train ID	FB3	Port Length (in)	3043
Duct Dim. (in)	102" x 112"		
Start Time	14:04	Stop Time	16:12



First point all the way [out]
Gas flow [in] [out] of page
Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure (inH ₂ O)		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		ΔP (inH ₂ O)	Pressure (inH ₂ O)											
1-6	42:15	0.55	1.4	1.4	844.20	308	320	320	47	112	103	6	N/A	
7	45:30	0.51	1.3	1.3	925.90	308	322	320	46	112	103	6		
3-1	48:45	0.49	1.2	1.2	930.38	308	305	324	46	112	103	6		
2	52:15	0.47	1.2	1.2	932.28	308	322	322	48	112	103	6		
3	55:15	0.51	1.3	1.3	934.28	308	320	322	48	112	103	6		
4	58:30	0.45	1.1	1.1	936.35	308	318	320	48	112	103	6		
5	61:45	0.49	1.2	1.2	938.17	308	318	321	47	113	104	6		
6	65:15	0.56	1.4	1.4	940.01	308	319	321	49	113	104	6		
7	68:15	0.49	1.2	1.2	941.92	308	329	320	48	113	104	6		
4-1	71:30	0.50	1.3	1.3	943.79	308	321	320	50	112	105	6		
2	74:45	0.47	1.2	1.2	945.82	308	319	319	50	112	105	6		
3	78:00	0.48	1.2	1.2	947.74	308	320	321	49	113	105	6		
Total				35.2	56148	8616				3117	2992			
Average				(2.5)		(307.7)					(109.1)			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

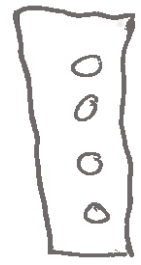
General Testing Data Sheet

TESTING TYPE: particulate

RUN NO. 3

METHOD NO. 5b/200

Page 3 of 3

Client	Big Rivers - Wilson		
Plant	Owensboro, KY		
Location	Esp Outlet #4		
Date	7/15/11	Project No.	3018
Meter Operator	BK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.041
ΔH@	1.772	Kf	2.61
Pre Leak Check	000	[ppm] [ppm] @	15 (inHg)
Post Leak Check	000	[ppm] [ppm] @	10 (inHg)
			
(M) [Up] First point all the way (in) [out] Gas flow [in] [out] of page			
Cross Section of Duct			
Barometric (inHg)	29.56	Water (ml) [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vlc	
Probe ID	AE-5-10-2	Liner Type	Glass
Nozzle ID	127	Nozzle Dia (in)	.27
Filter ID	12144	Train Type	Im
Train ID	1B3	Port Length (in)	31.45
Duct Dim. (in)	102 x 162		
Start Time	14:04	Stop Time	16:12

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4-4	81:15	.44	1.1	809.20	308	320	320	50	113	106	7		
5	84:30	.51	1.3	851.61	308	320	320	51	113	106	7		
6	87:45	.55	1.4	953.54	308	319	321	51	113	105	7		
7	91	.50	1.3	955.68	308	321	320	53	113	106	7		
Total					8616								
Average					307.7								
													3117.2902 (109.1)

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

PROJECT NO. 3046

Page 1 of 1

Client	<u>Biocivics</u>
Plant	<u>DD Wilson</u>
Location	<u>ESP 4</u>
Date	<u>2/11/11</u>
Operator	<u>ML</u>

Run No.	<u>1</u>	Method No.	<u>SB202</u>	Filter No.	<u>12072</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>504.0</u>	<u>535.5</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>750.0</u>	<u>784.0</u>		
Impinger No. 3	<u>Empty</u>	<u>641.0</u>	<u>665.2</u>		
Impinger No. 4	<u>Silica</u>	<u>912.0</u>	<u>932.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	<u>2</u>	Method No.	<u>SB202</u>	Filter No.	<u>12126</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>609.6</u>	<u>739.1</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>640.6</u>	<u>649.3</u>		
Impinger No. 3	<u>Empty</u>	<u>416.9</u>	<u>503.4</u>		
Impinger No. 4	<u>Silica</u>	<u>931.9</u>	<u>948.1</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	<u>3</u>	Method No.	<u>SB202</u>	Filter No.	<u>12144</u>
	Contents	Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>Empty</u>	<u>485.8</u>	<u>591.5</u>	<u>SD</u>	
Impinger No. 2	<u>DI</u>	<u>748.4</u>	<u>742.2</u>		
Impinger No. 3	<u>Empty</u>	<u>641.5</u>	<u>646.5</u>		
Impinger No. 4	<u>Silica</u>	<u>989.2</u>	<u>1017.7</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 1

METHOD NO. 26

Page 1 of 1

Client	Big RUNS - Wilson		Water [ml] [g]	27.51
Plant	Ovensball, Ky		Silica gel (g)	45
Location	Est Outlet #4		Total Vlc	-12.0
Date	7/14/11	Project No. 3648	Probe ID	AE-5-6-2
Meter Operator	BK		Nozzle ID	.27
Probe Operator	AL		Filter ID	N/A
Meter ID	M-17	Yd 1.014	Train ID	FB-16
ΔH@	1.772	Kf 2.61	Duct Dim. (In)	162" x 162"
Pre Leak Check	1.000	[In] [ppm] @ 15	Start Time	10:04
Post Leak Check	0.03	[Out] [ppm] @ 16	Stop Time	12:09



First point all the way [out] [out]
Gas flow [in] [out] of page

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	Impinger Inlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (InHg)	Auxiliary Temp (°F)	Notes
N/A	10	.48	1.2	527.01	295	250	250	55	105	97	97	4	N/A	
	30	.55	1.4	539.48	295	250	252	55	107	97	97	4		
	40	.55	1.4	545.97	295	249	249	53	107	97	97	4		
	50	.56	1.4	552.46	295	249	250	48	104	95	95	4		
	60	.55	1.4	554.16	295	249	247	50	105	95	95	4		
	70	.54	1.4	555.59	295	250	250	51	105	95	95	5		
	80	.55	1.4	572.20	297	249	247	53	106	96	96	5		
	90	.56	1.4	578.82	297	250	249	55	105	95	95	4		
	100	.54	1.4	585.40	298	251	249	55	105	95	95	5		
	110	.55	1.4	592.02	298	251	251	57	105	95	95	5		
	120	.55	1.4	598.61	298	251	251	58	105	95	95	5		
Total				605.19	298	250	250	60	105	95	95	5		
Average		.5380	1.38	778.18	295.3				126.5	114.7	100.5			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 2

METHOD NO. 26

Page 1 of 1

Client	Big Rivers - Wilson	
Plant	Owensboro, Ky	
Location	ESP outlet #4	
Date	7/14/11	Project No. 3648
Meter Operator	bK	
Probe Operator	AL	
Meter ID	M-17	Yd 1.0141
ΔH@	1.772	Kf 2.61
Pre Leak Check	0.000	[ppm] [ppm] @ 15 (inHg)
Post Leak Check	0.000	[ppm] [ppm] @ 18 (inHg)

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First point all the way [out] of page
Gas flow [in] of page

Barometric (inHg)	29.51	Water (ml) [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-17	Total Vlc	
Probe ID	AE-5-52	Inner Type	G1m55
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	N/A		
Train ID	EA-16	Train Type	IMP
Duct Dia. (in)	62" x 102"	Port Length (in)	31
Start Time	13:43	Stop Time	15:43

Traverse Point	Min/Point Elapsed Time	Velocity Pressure		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		ΔP (inH ₂ O)	ΔP (inH ₂ O)											
N/A	10	0.60	1.5	1.5	608.80	300	250	250	44	96	89	6	N/A	DGM Out temp. 90.0°C
	20	0.59	1.5	1.5	615.71	300	248	247	47	99	92	5		
	30	0.59	1.5	1.5	621.26	300	251	253	45	103	92	5		
	40	0.58	1.5	1.5	628.08	300	251	249	43	103	92	5		
	50	0.60	1.5	1.5	634.80	300	251	250	41	103	93	5		
	60	0.60	1.5	1.5	641.51	300	249	251	45	101	93	5		
	70	0.59	1.5	1.5	648.40	300	249	249	46	100	92	5		
	80	0.60	1.5	1.5	655.28	300	249	251	49	100	92	5		
	90	0.58	1.5	1.5	662.17	301	250	249	52	100	91	5		
	100	0.59	1.5	1.5	669.05	302	250	250	52	100	91	5		
	110	0.58	1.5	1.5	675.93	302	249	249	56	99	91	5		
	120	0.60	1.5	1.5	682.80	302	250	251	59	99	91	5		
Total					80.85	301	250	249	59	99	91	5		
Average					18.0	300.5	250	250	59	100	109.7	5		

Circle correct bracketed [] units
Train Type denotes Impingers, Knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCh

RUN NO. 3

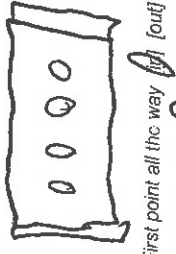
METHOD NO. 26

Page 1 of 1

Client	Big Rivers - Wilson		
Plant	Owensboro Ky		
Location	Esp Outlet #4		
Date	7/4/11	Project No.	3648
Meter Operator	BK		
Probe Operator	AL		
Meter ID	M-17	Yd	1.0141
ΔH@	1.772	KF	2.51
Pre Leak Check	0.00	[cfm] [ppm] @	15 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @	16 (inHg)
Pilot Cp	.84		
Leak check	<input checked="" type="checkbox"/>		

Barometric (inHg)	29.51	Water (ml) [g]	
Ambient Temp (°F)	95	Silica gel (g)	
State (InH ₂ O)	-17	Total Vc	
Probe ID	AE-562	Line Type	G1/2
Nozzle ID	.27	Nozzle Dia (in)	.27
Filter ID	N/A	Train Type	Imp
Train ID	TB16	Port Length (in)	24.43
Duct Dia (in)	62" x 102"		

Start Time	16:43	Stop Time	18:43
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Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		Pressure	ΔP											
N/A	10	.59	1.5	1.5	612.00	298	250	250	49	99	89	5	N/A	
	20	.59	1.5	1.5	648.80	300	251	250	47	101	91	5		
	30	.60	1.5	1.5	705.55	300	253	249	46	101	91	5		
	40	.59	1.5	1.5	712.27	300	250	252	43	102	92	5		
	50	.61	1.5	1.5	719.08	300	250	250	45	101	92	5		
	60	.60	1.5	1.5	725.87	299	250	248	46	101	92	5		
	70	.59	1.5	1.5	732.66	298	251	251	48	103	92	5		
	80	.61	1.5	1.5	739.43	298	251	252	51	103	92	5		
	90	.60	1.5	1.5	746.22	298	251	250	53	102	93	5		
	100	.59	1.5	1.5	753.16	299	250	250	86	102	92	5		
	110	.61	1.5	1.5	759.82	299	250	250	58	102	92	5		
	120	.60	1.5	1.5	766.71	298	251	249	61	102	92	5		
Total					773.29	299	251	249	61	102	92	5		
Average					(81.29)	3585				1214	1100			
					(1.5)	(298.75)				(90.4)				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 864E

Page 1 of 1

Client	<u>BIG RIVERS</u>		
Plant	<u>VB Wilson</u>		
Location	<u>ESP 4</u>		
Date	<u>2/14/11</u>		
Operator	<u>BC</u>		

Run No.	<u>1</u>				
Method No.	<u>26</u>				<u>NA</u>
	Contents	Initial Weight (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>690.0</u>	<u>789.0</u>	<u>50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>605.0</u>	<u>880.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>506.0</u>	<u>520.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>884.0</u>	<u>924.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	<u>2</u>				
Method No.	<u>26</u>				<u>NA</u>
	Contents	Initial Weight (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>665.0</u>	<u>799.0</u>	<u>50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>650.0</u>	<u>662.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>545.0</u>	<u>553.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>895.0</u>	<u>930.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	<u>3</u>				
Method No.	<u>26</u>				<u>NA</u>
	Contents	Initial Weight (g)	Final (g)	Total (g)	Notes
Impinger No. 1	<u>H2SO4</u>	<u>785.0</u>	<u>826.0</u>	<u>50</u>	
Impinger No. 2	<u>H2SO4</u>	<u>610.0</u>	<u>635.0</u>		
Impinger No. 3	<u>EMPTY</u>	<u>518.0</u>	<u>522.0</u>		
Impinger No. 4	<u>SILICA</u>	<u>924.0</u>	<u>941.0</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

AIRTECH ENVIRONMENTAL SERVICES INC.


General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 1 of 3

Client <u>Big Rivers - Wilson</u>		Barometric (inHg) <u>29.51</u>		Water (ml) (g)	
Plant <u>Owensboro, IN</u>		Ambient Temp (°F) <u>95</u>		Silica gel (g)	
Location <u>ESP Outlet #4</u>		Static (inH ₂ O) <u>-17.0</u>		Total Vc	
Date <u>7-14-11</u>		Probe ID <u>S-10-2</u>		Liner Type <u>TFL</u>	
Meter Operator <u>AL</u>		Nozzle ID <u>1.25</u>		Nozzle Dia (in) <u>.250</u>	
Probe Operator <u>BK</u>		Filter ID <u>NA</u>		Train Type <u>NA</u>	
Meter ID <u>M-6</u>	Yd <u>1.0076</u>	Pilot Cp <u>.84</u>	Train ID <u>IB-8</u>		
ΔH@ <u>1.787</u>	Kf <u>2.61</u>	Leak check <u>V</u>	Port Length (in) <u>43"</u>		
Pre Leak Check <u>0.092</u> [cfm] [lpm] @ <u>12</u> (inHg)	First point all the way <u>out</u>				
Post Leak Check <u>0.091</u> [cfm] [lpm] @ <u>15</u> (inHg)	Gas flow [in] <u>out</u> of page				
Cross Section of Duct			Start Time <u>10:07</u>		
			Stop Time <u>12:09</u>		

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	1.7	1.4	308.55	315	250	250	48	96	97	4	NA	
2	9	2.5	1.65	310.24	314	250	250	48	96	97	4		
3	13.5	3.6	1.93	314.39	315	250	250	50	96	97	5		
4	18	3.8	1.99	316.92	315	250	252	50	96	97	6		
5	22.5	4.0	1.0	319.84	314	253	252	51	96	97	6		
6	27	4.2	1.1	322.76	314	253	252	51	96	97	6		
7	31.5	4.2	1.1	325.42	315	254	252	52	97	97	7		
2-1	36	2.0	1.52	328.25	315	255	250	52	97	98	5		
2	40.5	2.4	1.63	330.28	315	253	250	52	98	98	6		
3	45	3.4	1.89	332.61	317	253	250	53	98	98	6		
4	49.5	3.6	1.93	335.21	316	250	250	53	98	98	7		
5	54	3.8	1.99	337.48	315	250	250	54	99	98	7		
Total 6	58.5	4.1	1.1	340.59	315	250	251	54	99	98	7		
Average 7	63	4.3	1.1	343.29	315	251	252	55	99	99	7		
Total											1361		1386
Average											194.4		194.4

Circle correct orificers / Trains
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet


TESTING TYPE: Metals

RUN NO. 1

METHOD NO. 29

Page 2 of 2

Client		Big Rivers - Wilson	
Plant		Owensboro, IN	
Location		ESP Outlet #4	
Date	7-14-11	Project No.	3648
Meter Operator	AL		
Probe Operator	BK		
Meter ID	M-6	Yd	1.0076
ΔH@	1.787	Kf	2.61
Pre Leak Check	0.002 [cfm] [ppm] @	Leak check	✓
Post Leak Check	0.001 [cfm] [ppm] @		
		pilot Cp	.84



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Gas flow [in] out of page

Barometric (inHg)		Water [ml] [g]	
Ambient Temp. (°F)	95	Silica gel [g]	
Static (inH ₂ O)	7.0-17	Total Vlc	
Probe ID	S-10-2	Liner Type	TFL
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID			NA
Train ID	IB-8	Train type	IB
Duct Dim. (in)		Port Length (in)	34.0

Start Time	10:09	Stop Time	12:09
------------	-------	-----------	-------

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
3-1	67.5	.40	1.0	343.89	315	250	250	48	96	96	6	NA	
2	72	.43	1.1	346.64	315	250	251	48	97	96	6		
3	76.5	.46	1.2	351.30	314	252	249	49	97	96	7		
4	81	.50	1.3	354.28	319	252	250	50	97	96	7		
5	85.5	.50	1.3	357.42	310	252	252	50	97	96	7		
6	90	.47	1.2	360.05	312	251	253	51	97	97	7		
7	94.5	.48	1.2	363.21	315	251	254	51	97	97	7		
4-1	99	.48	1.2	365.74	315	250	254	52	98	97	5		
2	103.5	.45	1.2	368.24	315	250	252	53	98	97	6		
3	108	.45	1.2	370.99	316	251	250	53	98	97	7		
4	112.5	.50	1.3	374.72	314	252	250	54	98	97	7		
5	117	.51	1.3	376.87	314	252	250	54	98	97	7		
Total	6121.5	.50	1.3	379.42	314	252	250	54	98	97	7		
Average	126	.48	1.2	382.61	315	250	250	53	98	97	7		
											4394		
											1364		1353
											98		98

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

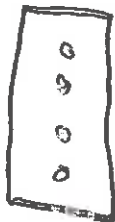
RUN NO. 2

TESTING TYPE Metals

METHOD NO. 29

Page 1 of 3

Client	Big Rivers - Wilson		
Plant	Gwenishboro, IN		
Location	ESP Outlet #4		
Date	7-14-11	Project No.	3648
Meter Operator	AL		
Probe Operator	BK		
Meter ID	M-6	Yd	1.0076
AH@	1.787	Kf	2.61
Pre Leak Check	0.092	[cfm] [ppm] @	10 (inHg)
Post Leak Check	0.092	[cfm] [ppm] @	12 (inHg)



First print all the way (in) of page
Gas fl. w. [in] out of page

Barometric (inHg)	29.51	Water (ml) (g)	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inHg)	-17.0	Total Vlc	
Probe ID	5-10-3	Liner Type	TFL
Nozzle ID	.25	Nozzle Dia (in)	NA
Filter ID	NA	Train Type	NA
Train ID	IB-8	Port Length (in)	IMP
Duct Dim. (in)	102" x 102"		43°

Start Time	13:43	Stop Time	15:43
Cross Section of Duct			

MiniPoint	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	in-pinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	1.45	1.1	389.42	310	250	250	48	93	92	6	NA	
2	1.48	1.2	392.87	310	250	251	48	93	92	6		
3	1.48	1.2	394.24	308	251	251	48	93	92	6		
4	1.50	1.3	397.82	310	253	250	49	93	92	7		
5	1.51	1.3	400.76	312	253	250	49	95	93	7		
6	1.50	1.3	403.46	313	253	249	50	97	93	7		
7	1.48	1.2	406.59	315	252	249	51	97	94	7		
2-1	1.46	1.2	409.57	313	252	252	51	98	94	8		
2	1.47	1.2	412.19	313	250	252	52	98	95	6		
3	1.51	1.3	415.24	310	250	250	52	99	95	6		
4	1.50	1.3	418.05	310	250	250	53	99	96	7		
5	1.50	1.3	421.42	310	250	250	53	99	96	7		
Total	19.61	14.9	30.28	311.8				115.4	112.4			
Average	3.92	2.97	6.05	311.8								

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

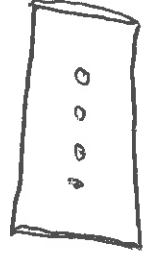
RUN NO. 2

TESTING TYPE: Metals

METHOD NO. 29

Page 2 of 3

Client	<u>Big Rivers - Wilson</u>		
Plant	<u>Quarabore, IN</u>		
Location	<u>ESP Outlet #4</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>AL</u>		
Probe Operator	<u>BK</u>		
Meter ID	<u>M-6</u>	Yd	<u>1.0076</u>
ΔH@	<u>1.767</u>	Kr	<u>2.61</u>
Pre Leak Check	<u>0.002</u>	[cfm] [ppm] @	<u>13</u>
Post Leak Check	<u>0.001</u>	[cfm] [ppm] @	<u>14</u>
Pilot Cp	<u>0.84</u>		
Leak check	<input checked="" type="checkbox"/>		



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Gas flow in out of page

Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Inlet Temp (°F)	Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	58.5	.51	1.3	421.42	312	250	250	50	94	95	94	6	NA	
7	63	.49	1.2	426.97	312	250	250	50	94	95	94	6		
1	67.5	.50	1.3	429.64	315	254	254	47	94	95	94	6		
2	72	.52	1.3	432.39	315	254	254	47	94	96	94	7		
3	76.5	.53	1.4	435.71	315	255	250	48	94	96	94	7		
4	81	.53	1.4	438.64	314	255	250	48	95	96	94	7		
5	85.5	.51	1.3	440.89	314	259	252	49	95	96	95	7		
6	90	.49	1.2	443.30	312	250	251	49	94	96	95	6		
7	94.5	.48	1.2	446.48	312	250	251	49	94	96	94	6		
4-1	99	.49	1.2	449.82	312	250	251	50	93	95	94	6		
2	103.5	.53	1.4	452.61	312	250	250	50	93	94	93	6		
3	108	.52	1.3	455.58	313	250	250	50	93	94	93	7		
Total														
Average			15.1	3758				1142	1128					

Start Time 13:43 Stop Time 15:43

Circle count bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 2

METHOD NO. 29

Page 3 of 3

Client	<u>Big Rivers - Wilson</u>		
Plant	<u>Owensboro</u>		
Location	<u>ESP Outlet #4</u>		
Date	<u>7-14-11</u>	Project No.	<u>3648</u>
Meter Operator	<u>AL</u>		
Probe Operator	<u>BK</u>		
Meter ID	<u>M-6</u>	Yd	<u>1.0076</u>
ΔH@	<u>1.787</u>	Kf	<u>2.61</u>
Pre Leak Check	<u>0.003</u> [cfm]	[ppm]	<u>14</u> (inHg)
Post Leak Check	<u>0.002</u> [cfm]	[ppm]	<u>13</u> (inHg)



Find point all the way in of duct
Gas flow in of page

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	<u>95</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-17.9</u>	Total Vlc	
Probe ID	<u>5-10-2</u>	Liner Type	<u>TFL</u>
Nozzle ID	<u>.25</u>	Nozzle Dia (in)	
Filter ID	<u>NA</u>	Train Type	<u>NA</u>
Train ID	<u>IB-8</u>	Port Length (in)	<u>IMP</u>
Duct Dim (in)			

Start Time	<u>13:43</u>	Stop Time	<u>15:43</u>
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample		Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
				Volume Initial [ft ³]	Final [ft ³]									
4	12.5	1.77	1.2	455.58		250	250	250	50	93	91	6	NA	
5	117	1.46	1.2	458.72		310	250	253	50	93	91	6		
6	121.5	1.45	1.2	461.38		310	250	253	50	93	91	6		
7	126	1.47	1.2	464.07		310	251	252	50	93	91	6		
				466.92		310	252	250	51	93	91	6		
Total						1240								
Average			<u>4.8</u>											

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 1 of 1

Client	Big Rivers - Wilson				
Plant	Owensboro IN				
Location	ESP Outlet #4				
Date	7-14-11	Project No.	3648		
Meter Operator	AL				
Probe Operator	BK				
Meter ID	M-6	Yd	1.0076	Pitot Cp	.84
ΔH@	1.787	Kf	2.61	Leak check	✓
Pre Leak Check	0.003	[cfm]	[lpm]	@	14
Post Leak Check	0.002	[cfm]	[lpm]	@	19

First point all the way (up) of page
Gas flow (in) (out) of page

Barometric (inHg)	29.51	Water (ml) [g]	
Ambient Temp (°F)	75	Silica gel (g)	
Static (inH ₂ O)	-17.0	Total Vic	
Probe ID	S-10-2	Liner Type	TFE
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID	NA		NA
Train ID	IB-8	Train Type	IMP
Duct Dim. (in)	16.2" x 11.2"	Port Length (in)	43"

Start Time 16:43 Stop Time 18:43

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Onifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	4.5	.48	1.2	472.68	310	250	250	47	94	92	5	NA	
2	9	.49	1.3	475.52	310	250	254	47	94	92	6		
3	13.5	.50	1.3	478.24	312	250	258	48	94	92	6		
4	18	.51	1.3	481.28	312	252	262	48	94	92	7		
5	22.5	.52	1.4	484.42	312	252	265	49	95	92	7		
6	27	.50	1.3	487.56	310	254	250	50	95	93	7		
7	31.5	.48	1.2	490.82	310	254	250	50	96	93	6		
2-1	36	.49	1.3	493.12	310	250	250	51	96	93	5		
2	40.5	.51	1.3	495.72	310	250	250	51	95	93	6		
3	45	.52	1.4	498.68	312	250	250	52	95	94	6		
4	49.5	.55	1.4	501.34	315	251	250	52	95	94	7		
5	54	.54	1.4	504.22	314	250	250	52	95	93	7		
Total	126	1.805	15.8	80.8	3737				1138	1113			
Average		.7102	1.3	310.5					1100.3				

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

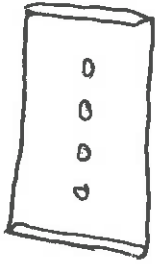
TESTING TYPE: Metals

RUN NO. 3

METHOD NO. 29

Page 2 of 3

Client: Big Rivers - Wilson
 Plant: Owensboro, IN
 Location: ESP Outlet #4
 Date: 7-14-11 Project No.: 3648
 Meter Operator: AL
 Probe Operator: BK
 Meter ID: M-6 Yd: 1.0076 Pitot Cp: .84
 ΔH@: 1.787 Kf: 2.61 Leak: chk J
 Pre Leak Check: 0.003 [cfm] [ppm] @ 14 (inHg)
 Post Leak Check: 0.002 [cfm] [ppm] @ 19 (inHg)



↑ first point all the way in (out)

Gas flow [in] (out) of page

cross Section of Duct

Barometric (inHg):
 Ambient Temp (°F): 95
 Static (inH₂O): -17.0
 Probe ID: S-10-2
 Nozzle ID: .25
 Filter ID: NA
 Train ID: IB-8
 Duct Dim. (in): 31.0
 Water (ml) [g]:
 Silica gel (g):
 Total V/c:
 Liner Type: TFE
 Nozzle Dia (in):
 Train Type: IMP
 Port Length (in):

Start Time: 16:43 Stop Time: 18:43

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filt or Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
4.5												
Point	Time											
6	58.5	1.2	507.09	310	250	250	48	94	92	6	NA	
7	63	1.3	510.92	310	250	250	48	94	92	7		
3-1	67.5	1.3	513.99	310	250	255	48	94	92	7		
2	72	1.3	515.98	309	252	255	49	94	92	7		
3	76.5	1.4	518.80	309	255	260	49	93	92	7		
4	81	1.3	521.77	310	258	260	50	93	92	7		
5	85.5	1.2	525.48	310	259	260	50	93	92	7		
6	90	1.2	528.23	312	289	262	50	93	92	6		
7	94.5	1.3	530.75	310	259	262	51	93	92	6		
4-1	99	1.4	533.64	310	255	258	51	93	92	7		
2	103.5	1.4	536.80	310	250	250	51	93	92	7		
3	108	1.4	539.78	309	250	250	51	93	92	7		
Total		1.4	542.79	309	250	250	52	93	92	7		
Average		15.7	3719					1120	1104			

Circle correct bracketed [] units
 Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

METHOD NO. 29

RUN NO. 3

Client	Big Rivers - Wilson				
Plant	Owensboro, IN				
Location	ESP Outlet #4				
Date	7-14-11	Project No.	3648		
Meter Operator	AL				
Probe Operator	BK				
Meter ID	M-6	Yd	1.0076	Pilot Cp	.84
$\Delta H@$	1.787	Kf	2.61	Leak check	<input checked="" type="checkbox"/>
Pre Leak Check	0.003	[cfm]	[ppm]	@	14
Post Leak Check	0.002	[cfm]	[ppm]	@	17

First point all the way **(in)** [out] of page
Gas flow [in] **(out)** of page

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-17.0	Total Vic	
Probe ID	5-10-2	Inner Type	
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID	NA		
Train ID	TB-8	Train Type	IMP
Duct Dim. (in)		Port Length (in)	31.0

Cross Section of Duct	Start Time	Stop Time	Notes	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Impinger Outlet Temp (°F)	Filter Temp (°F)	Probe Temp (°F)	Stack Temp (°F)	Gas Sample Volume Initial [ft ³] [l]	Orifice Setting ΔH (inH ₂ O)	Velocity Pressure ΔP (inH ₂ O)	Mim/Point Elapsed Time	Orifice ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Impinger Outlet Temp (°F)	Filter Temp (°F)	Probe Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
	16:43	18:43		93	92	49	250	250	310	542.79	1.4	0.53	4:5	1.4	545.63	310	50	250	250	93	92	7	NA	
				93	92	50	255	252	310	548.22	1.3	1.00	117	1.3	548.22	310	50	255	252	93	92	7		
				93	92	50	255	252	309	551.82	1.2	1.48	121.5	1.2	551.82	309	50	255	252	93	92	6		
				93	92	51	255	250	310	553.48	1.2	1.47	126	1.2	553.48	310	51	255	250	93	92	6		
Total									1239															
Average											5.1													

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3048

Page 1 of 1

Client	Big River Energy - Wilson Station		
Plant	Hazen/Slack/K		
Location	ESP Exhaust		
Date	7-13-11	Unit	4
Operator	KE		

Run No.	1	Method No.	29	Filter No.	NA
	Contents	Tare wt (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	558.1	632.6 - 50		
Impinger No. 2	5% / 10%	735.5	718.2		
Impinger No. 3	5% / 10%	661.0	675.1		
Impinger No. 4	Empty	560.0	577.9		
Impinger No. 5	Silica	804.9	919.3		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

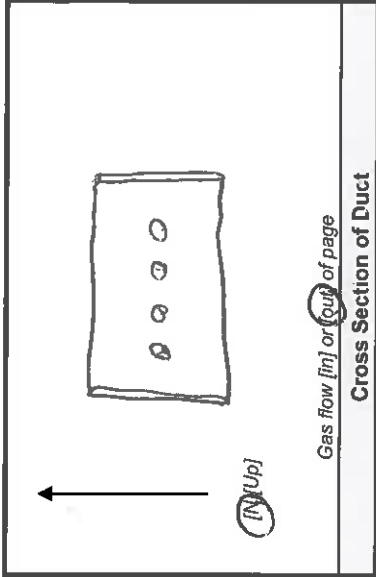
Run No.	2	Method No.	29	Filter No.	NA
	Contents	Tare wt (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	478.2	616.2 - 50		
Impinger No. 2	5% / 10%	703.6	726.2		
Impinger No. 3	5% / 10%	716.9	728.2		
Impinger No. 4	Empty	700.0	624.1		
Impinger No. 5	Silica	907.2	932.1		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3	Method No.	29	Filter No.	NA
	Contents	Tare wt (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	561.8	675.0 - 50		
Impinger No. 2	5% / 10%	738.2	753.6		
Impinger No. 3	5% / 10%	665.7	677.0		
Impinger No. 4	Empty	507.7	575.8	575.8	
Impinger No. 5	Silica	918.0	940.5	940.5	
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Client	Big Rivers - Wilson
Plant	Ovensboro, TN
Location	ESP Outlet #4
Date	7-15-11
Project No.	3646
Meter Reader	AL



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-17.0
Ambient Temp. (°F)	95
Start Time	8:08
Stop Time	9:38

Sample Train A Unspiked Trap

Trap ID	94458	Meter ID	M-26	Yd	7
Pre Leak Check	0.003	lpm @		lpm @	7
Post Leak Check	0.002	lpm @		lpm @	8

Meter ID	M-26	Yd	7
Pre Leak Check	0.003	lpm @	7
Post Leak Check	0.002	lpm @	8

Sample Train B Spiked Trap

Trap ID	94238	Meter ID	M-26	Yd	6
Pre Leak Check	0.003	lpm @		lpm @	6
Post Leak Check	0.003	lpm @		lpm @	7

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0.00				
Elapsed Time						
3.75	.5	1.634	306	113	7	
7.5	.5	3.524	306	113	7	
11.25	.5	4.996	306	116	7	
15	.5	6.642	310	116	7	
18.75	.5	8.724	310	117	7	
22.5	.5	9.967	310	118	7	
26.25	.5	11.625	309	118	7	
30	.5	13.725	308	119	6	
33.75	.5	15.24	306	119	6	
37.5	.4	16.314	308	120	6	
41.25	.5	18.812	308	121	6	
45	.4	20.624	309	121	6	
Total		45.124	3696	1411		
Average		306.8	119.7			

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75		0.00				
Elapsed Time						
3.75	.5	1.986	306	116	4	
7.5	.5	3.872	306	117	4	
11.25	.5	5.362	306	118	4	
15	.5	7.214	310	118	4	
18.75	.5	9.424	310	119	4	
22.5	.5	10.961	310	121	5	
26.25	.5	12.842	309	121	5	
30	.5	14.112	308	121	5	
33.75	.5	15.668	306	122	4	
37.5	.5	16.128	308	122	4	
41.25	.5	18.789	308	123	4	
45	.5	20.389	309	123	4	
Total		43.738	3696	1441		
Average		306.8	122.3			

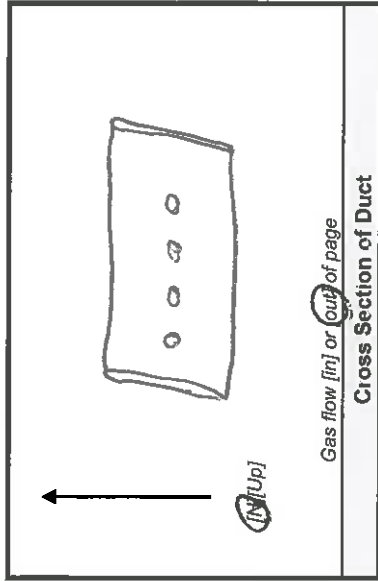
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1

Page 2 of 2

Client	Big Rivers-Vibor
Plant	Dwensberg, IN
Location	ESP Outlet #4
Date	7-15-11
Project No.	
Meter Reader	AL



Barometric (in. Hg)	
Static (inH ₂ O)	-17.0
Ambient Temp. (°F)	95
Start Time	8:08
Stop Time	9:38

Sample Train A Unspiked Trap

Trap ID	9445B	Meter ID	M-26	Yd	9902
Pre Leak Check	0.003	lpm @	7	(in. Hg)	
Post Leak Check	0.002	lpm @	8	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	9423B	Meter ID	M-26	Yd	9902
Pre Leak Check	0.003	lpm @	6	(in. Hg)	
Post Leak Check	0.003	lpm @	7	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
Elapsed Time						
48.75	.5	22.572	306	121	7	
52.5	.5	24.742	306	121	8	
56.25	.5	26.452	307	121	8	
60	.5	28.042	305	121	8	
63.75	.5	30.142	305	121	8	
67.5	.5	33.142	305	122	8	
71.25	.5	35.42	305	122	8	
75	.5	37.520	305	122	6	
78.75	.5	39.124	306	122	8	
82.5	.5	41.326	306	122	8	
86.25	.5	42.764	306	123	8	
90	.5	45.124	307	123	8	
Total			3669	1461		
Average						

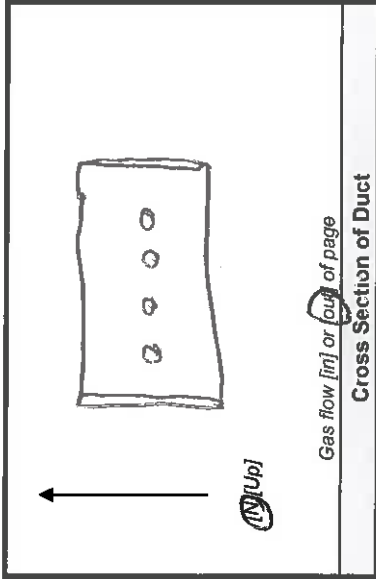
Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
Elapsed Time						
48.75	.5	22.312	306	124	4	
52.5	.5	24.311	306	124	5	
56.25	.5	26.241	307	124	4	
60	.5	28.294	305	124	4	
63.75	.5	30.911	305	124	4	
67.5	.5	32.192	305	125	4	
71.25	.5	33.98	305	125	4	
75	.5	35.879	305	125	4	
78.75	.5	37.711	306	125	4	
82.5	.5	39.127	308	125	4	
86.25	.5	41.018	306	125	4	
90	.5	43.788	307	125	4	
Total			3669	1495		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	Big Rivers - Wilson
Plant	Dwensboro, IN
Location	ESP Outlet #4
Date	7-15-11
Project No.	3048
Meter Reader	AL



Barometric (in. Hg)	29.86
Static (inH ₂ O)	-17.0
Ambient Temp (°F)	95
Start Time	11:15
Stop Time	13:00

Sample Train A Unspiked Trap

Trap ID	94449	Meter ID	M-26	Yd	9902
Pre Leak Check	0.002	lpm @	10	(in. Hg)	
Post Leak Check	0.001	lpm @	11	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94331	Meter ID	M-26	Yd	9902
Pre Leak Check	0.003	lpm @	9	(in. Hg)	
Post Leak Check	0.002	lpm @	10	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.5	0.000				
3.75	.5	1.824	307	114	5	
7.5	.4	3.728	307	115	5	
11.25	.4	5.124	310	115	5	
15	.5	7.018	310	115	5	
18.75	.5	9.187	309	115	5	
22.5	.5	10.010	309	116	5	
26.25	.5	11.828	309	116	5	
30	.5	11.998	319	116	5	
33.75	.5	12.249	310	117	5	
37.5	.5	13.635	309	117	5	
41.25	.5	14.765	308	117	5	
45	.5	16.804	308	117	5	
Total		(37.497)	3706	1322		
Average		(309.9)	(118.8)			

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
3.75	.5	0.000				
3.75	.5	1.743	307	114	4	
7.5	.5	2.643	307	114	4	
11.25	.5	4.801	310	114	4	
15	.5	6.282	310	115	4	
18.75	.5	8.154	309	115	4	
22.5	.5	9.937	309	115	4	
26.25	.5	11.197	309	115	5	
30	.5	12.764	310	115	5	
33.75	.5	13.628	310	115	5	
37.5	.5	14.801	309	116	4	
41.25	.5	15.684	308	116	4	
45	.5	17.124	308	116	4	
Total		(37.572)	3706	1300		
Average		(309.9)	(118.9)			

1-1
2
2
3
2-1
2
3

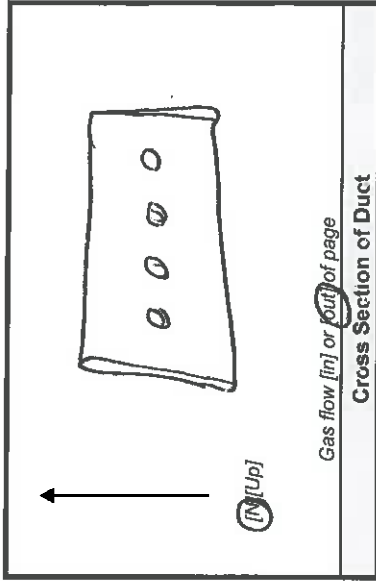
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	Big River - Wilson
Plant	Owensboro, IN
Location	ESP Outlet #4
Date	7-15-11
Project No.	
Meter Reader	AL



Barometric (in. Hg)	
Static (inH ₂ O)	-17.0
Ambient Temp (°F)	95
Start Time	11:15
Stop Time	13:00

Sample Train A Unspiked Trap

Trap ID	M-14-149	Meter ID	M-26	Yd	.9902
Pre Leak Check	0.002	lpm @	10	(in. Hg)	
Post Leak Check	0.001	lpm @	11	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	M-26	Meter ID	M-26	Yd	.9902
Pre Leak Check	0.003	lpm @	9	(in. Hg)	
Post Leak Check	0.002	lpm @	10	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial Temp (°F)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3-1	.5	18.472	311	119	6	
2	.5	20.689	312	120	6	
3	.5	21.742	312	122	6	
4-1	.5	23.891	312	122	6	
2	.5	27.439	311	123	7	
3	.4	29.241	310	123	6	
2	.4	30.962	310	123	5	
3	.4	32.807	310	124	5	
2	.5	34.125	310	124	6	
3	.5	36.248	311	124	6	
Total		57.497	311	125	6	
Average		3732	1471			

Mini/Point	Flow Meter Setting	Gas Sample Initial Temp (°F)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3-1	.5	19.098	311	129	4	
2	.5	20.524	312	120	4	
3	.5	22.715	312	120	4	
4-1	.5	27.887	312	121	4	
2	.5	26.309	312	123	5	
3	.5	28.224	311	124	5	
2	.5	27.124	310	124	4	
3	.5	30.984	310	124	4	
2	.5	32.189	310	124	4	
3	.4	34.567	310	125	4	
2	.4	36.491	311	125	4	
3	.4	37.592	311	125	4	
Total			3732	1475		
Average						

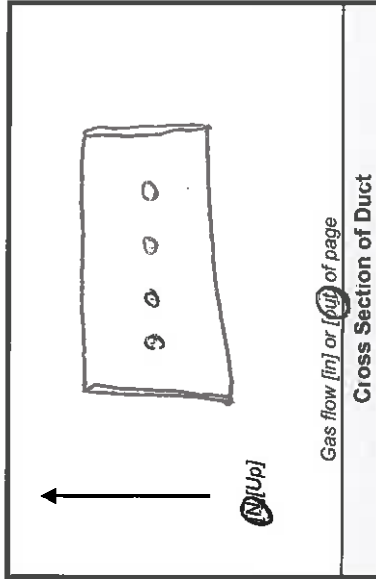
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	Big Rivers - Wilson
Plant	Overseas, IN
Location	ESP Outlet #4
Date	7-15-11
Project No.	3646
Meter Reader	AL



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-17.0
Ambient Temp. (°F)	95
Start Time	14:04
Stop Time	15:50

Sample Train A Unspiked Trap

Trap ID	94342	Meter ID	M-26	Yd	9902
Pre Leak Check	9.001	lpm @	19	(in. Hg)	
Post Leak Check	0.001	lpm @	11	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94302	Meter ID	M-26	Yd	9902
Pre Leak Check	0.002	lpm @	13	(in. Hg)	
Post Leak Check	0.001	lpm @	14	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	.5	0.009	310	125	5	
Elapsed Time						
3.75	1.5	2.648	310	125	5	1-1
7.5	.5	3.924	310	125	5	
11.25	.5	4.765	308	126	5	2
15	.5	6.248	308	126	6	
18.75	.5	7.972	310	126	6	3
22.5	.5	9.698	310	126	6	
26.25	.5	11.642	310	126	6	2-1
30	.5	12.748	310	127	5	
33.75	.5	14.201	311	127	5	2
37.5	.5	16.899	308	127	5	
41.25	.5	17.761	309	127	5	3
45	.5	19.248	310	128	5	
Total		59.842	3214	1516		
Average		309.3	309.3	126.8		

Mini/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75	.5	0.000	310	125	4	
Elapsed Time						
3.75	.5	2.164	310	125	4	
7.5	.5	3.987	310	126	4	
11.25	.5	5.228	308	126	4	
15	.5	7.112	308	126	4	
18.75	.4	8.991	310	126	4	
22.5	.4	10.124	310	127	4	
26.25	.4	12.042	310	127	4	
30	.5	14.124	310	127	4	
33.75	.5	16.383	311	127	4	
37.5	.5	17.576	308	128	4	
41.25	.5	18.810	309	128	4	
45	.5	19.114	310	128	4	
Total		59.197	3214	1521		
Average		309.3	309.3	127.1		

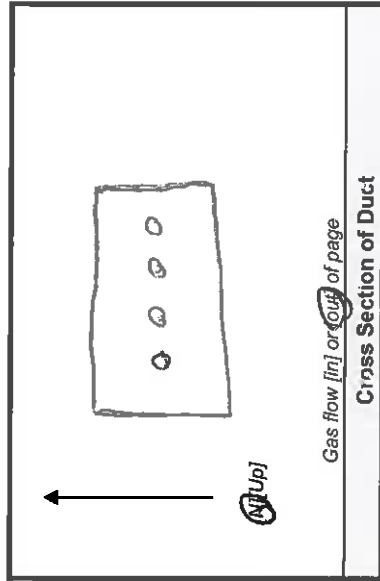
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	Big Rivers - Wilson
Plant	Queniboscq, IN
Location	ESP Outlet #4
Date	7-15-11
Project No.	
Meter Reader	AL



Barometric (in. Hg)	
Static (inH ₂ O)	-17.0
Ambient Temp. (°F)	95
Start Time	14:04
Stop Time	15:50

Sample Train A Unspiked Trap

Trap ID	94342	Meter ID	M-26	Yd	9902
Pre Leak Check	0.001	lpm @	10	(in. Hg)	
Post Leak Check	0.001	lpm @	11	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
Elapsed Time						
48.75	.5	21.624	310	125	5	3-1
52.5	.5	22.198	310	126	5	
56.25	.5	24.561	311	126	5	2
60	.5	26.428	310	127	5	
63.75	.5	28.344	309	127	5	3
67.5	.5	29.578	308	127	5	
71.25	.5	30.842	308	127	5	4-1
75	.5	32.997	308	128	5	
78.75	.5	34.442	308	128	5	2
82.5	.5	36.782	308	129	5	
86.25	.5	38.720	309	129	5	3
90	.5	39.812	310	129	5	
Total			3709	1528		
Average						

Sample Train B Spiked Trap

Trap ID	94302	Meter ID	M-26	Yd	9902
Pre Leak Check	0.002	lpm @	13	(in. Hg)	
Post Leak Check	0.001	lpm @	14	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
3.75						
Elapsed Time						
48.75	.5	21.283	310	126	4	
52.5	.5	22.498	310	126	4	
56.25	.5	23.987	311	127	4	
60	.4	24.824	310	127	4	
63.75	.4	25.446	309	127	4	
67.5	.4	27.498	308	127	4	
71.25	.4	29.630	308	127	4	
75	.4	31.042	308	128	4	
78.75	.5	33.928	308	128	4	
82.5	.5	35.248	308	128	4	
86.25	.5	37.124	309	129	4	
90	.5	39.197	310	129	4	
Total			3709	1529		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

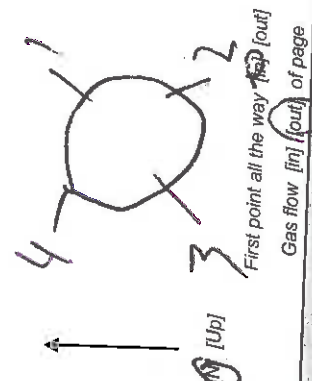
TESTING TYPE: Particulate

RUN NO. 1

METHOD NO. 5/202

Page 1 of 1

Client	<u>Big Rivers</u>	
Plant	<u>Wilson</u>	
Location	<u>Wilson Orbiter</u>	
Date	<u>7/15/11</u>	Project No. <u>3645</u>
Meter Operator	<u>SH</u>	
Probe Operator	<u>EA</u>	
Meter ID	<u>M-3</u>	Yd <u>9891</u>
ΔH@	<u>1.807</u>	Kf <u>5.05</u>
Pre Leak Check	<u>0.00</u>	[ppm] [ppm] @ <u>17</u> (inHg)
Post Leak Check	<u>0.0</u>	[ppm] [ppm] @ <u>22</u> (inHg)



Barometric (inHg)	<u>27.56</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>90</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-0.2</u>	Total Vic	
Probe ID	<u>AE 5-10</u>	Liner Type	<u>glass</u>
Nozzle ID	<u>370</u>	Nozzle Dia (in)	<u>370</u>
Filter ID	<u>12074</u>	Train Type	<u>1mp</u>
Train ID	<u>18 23</u>	Port Length (in)	<u>17.25</u>
Duct Dim. (in)	<u>408</u>		

Start Time 8:08 Stop Time 9:39

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Avx Temp (°F)	Notes
1	7.5	.20	1.2	761.86	127	320	320	69	94	93	11	44.4	85	
2	15	.20	1.2	770.91	128	321	320	65	94	93	11		84	
3	22.5	.20	1.2	775.54	128	319	320	65	96	94	11		84	
1	30	.22	1.2	780.21	128	320	316	64	98	94	11		85	
2	37.5	.23	1.2	784.75	129	320	317	66	101	95	11		84	
3	45	.19	1.0	789.06	129	320	315	66	104	96	11		84	
1	52.5	.20	1.2	793.62	129	320	319	65	104	97	11		83	
2	60	.24	1.3	798.32	129	320	315	65	107	98	12		82	
3	67.5	.20	1.1	802.98	129	320	317	64	107	99	12		82	
1	75	.22	1.2	807.37	129	320	319	63	108	100	11		83	
2	82.5	.23	1.2	811.79	129	320	320	63	110	101	11		82	
3	90	.21	1.1	816.57	129	320	320	63	111	103	12		84	
Total				54.70	1543				1234	1163				
Average				1.9661	128.58				99.8750					

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 2

TESTING TYPE: particulate

METHOD NO. SP202

Page 1 of 11

Client	<u>Big Rivers</u>		
Plant	<u>Wilson Outlet</u>		
Location	<u>Wilson Outlet</u>		
Date	<u>7/15/11</u>	Project No	<u>3648</u>
Meter Operator	<u>SH</u>		
Probe Operator	<u>EA</u>		
Meter ID	<u>m-3</u>	yd	<u>9891</u>
ΔH@	<u>1.407</u>	Kf	<u>6.5</u>
Pre Leak Check	<u>.025</u>	[ppm]	@ <u>18</u> (inHg)
Post Leak Check	<u>.020</u>	[ppm]	@ <u>18</u> (inHg)
Pitot Cp	<u>.84</u>		
Leak check	<input checked="" type="checkbox"/>		

Barometric (inHg)	<u>29.56</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>90</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-2</u>	Total Vic	
Probe ID	<u>AE S-10</u>	Liner Type	<u>916.5</u>
Nozzle ID	<u>1370</u>	Nozzle Dia (in)	<u>3.78 310</u>
Filter ID	<u>12125</u>		
Train ID	<u>1B</u>	Train Type	<u>imp</u>
Duct Dim. (in)	<u>40.8</u>	Port Length (in)	<u>17.25</u>



Start Time	<u>11:15</u>	Stop Time	<u>12:46</u>
------------	--------------	-----------	--------------

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	7:13	.21	1.4	816.87	130	320	320	64	108	100	10	89	
2	7:15	.22	1.4	821.94	129	319	317	64	107	120	10	89	
3	7:22	.19	1.2	831.18	129	319	316	65	107	99	10	90	
1	7:30	.22	1.4	836.84	129	320	314	65	105	100	10	86	
2	7:35	.23	1.5	842.09	129	320	321	65	106	100	10	80	
3	7:43	.23	1.5	847.21	129	320	319	66	108	101	11	80	
1	7:52	.24	1.6	852.52	129	320	316	66	108	102	12	81	
2	7:56	.22	1.4	857.77	129	320	316	67	108	102	11	81	
3	7:57	.21	1.4	862.79	129	320	316	64	110	103	11	81	
1	7:57	.24	1.6	868.27	129	320	316	63	111	103	12	81	
2	8:05	.24	1.6	873.09	129	320	316	63	111	104	12	81	
3	8:10	.21	1.4	878.62	129	320	316	63	111	104	12	81	
Total		<u>5.64</u>	<u>1.45</u>	<u>61.75</u>	<u>1548</u>				<u>1121</u>	<u>1218</u>			
Average		<u>.19</u>	<u>1.31</u>	<u>1297</u>					<u>109.12</u>	<u>1218</u>			

Circle correct bracketed [] unit
 Train Type denotes Impingers, Knocking, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 3

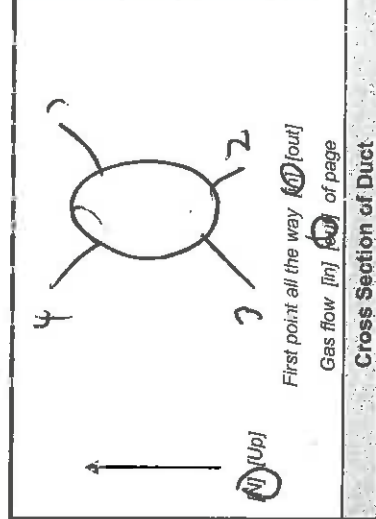
TESTING TYPE: Particulate

METHOD NO. SJ202

Page 1 of 1

Client	Big Rivers	
Plant	Wilson	
Location	Wilson Outlet	
Date	7/15/01	Project No. 3648
Meter Operator	SA	
Probe Operator	EA	
Meter ID	M-3	Yd .969
ΔH@	1807	Kf
Pre Leak Check	070	Pitot Cp 1.84
Post Leak Check	150	Leak check <input checked="" type="checkbox"/>
		(cfm) [fpm] @ 18 (inHg)
		(cfm) [fpm] @ 22 (inHg)

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH ₂ O)	- .2	Total V/c	
Probe ID	AE 5-10-1	Liner Type	glass
Nozzle ID	376	Nozzle Dia (in)	0.320, 0.32
Filter ID	12142		
Train ID	18-23	Train Type	MP
Duct Dim. (in)	408	Port Length (in)	17.25



Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGIM Inlet Temp (°F)	DGIM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	7.5	.23	1.5	879.16	130	320	326	68	100	100	12	88	
2	15	.24	1.4	889.67	130	320	320	66	101	99	12	83	
3	25	.21	1.4	894.78	129	319	319	65	102	100	11	80	
1	30	.23	1.5	899.85	129	320	321	64	104	99	11	77	
2	37.5	.21	1.4	905.10	129	320	320	64	106	100	11	80	
3	45	.22	1.4	910.20	129	320	320	64	107	101	11	80	
1	52.5	.23	1.5	915.40	129	320	320	66	107	101	11	80	
2	60	.23	1.5	920.64	129	320	319	67	109	102	12	80	
3	67.5	.20	1.3	925.73	129	320	320	66	110	102	12	80	
1	75	.23	1.5	930.89	130	320	320	65	111	103	12	81	
2	82.5	.24	1.6	936.30	129	320	320	65	111	104	12	81	
3	90	.21	1.4	941.52	129	320	320	65	111	104	12	82	
Total		5.668	17.6	62.36	131	1280	1280	1280	1280	1280	12	1280	
Average		(4.725)	(1.4667)	121.524	121.25	(103.4183)							

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3049

Page 1 of 1

Client	Big Rivers Energy - Wilson Station		
Plant	Auburn KY		
Location	STACK		
Date	7-11-11	Time	
Operator	M		

Run No.	1	Method No.	SB202	Filter No.	12074
	Contents	Tare Wt (g)	Contents (g)	Final (g)	Total (g)
Impinger No. 1	EMPTY	460.3		661.3	-50
Impinger No. 2	DI	587.4		547.9	
Impinger No. 3	EMPTY	682.0		650.9	
Impinger No. 4	SILICA	924.3		989.9	
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	2	Method No.	SB202	Filter No.	12125
	Contents	Tare Wt (g)	Contents (g)	Final (g)	Total (g)
Impinger No. 1	EMPTY	463.5		667.4	-50
Impinger No. 2	DI	644.1		641.9	
Impinger No. 3	EMPTY	631.3		639.2	
Impinger No. 4	SILICA	826.1		911.2	
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	3	Method No.	SB202	Filter No.	12142
	Contents	Tare Wt (g)	Contents (g)	Final (g)	Total (g)
Impinger No. 1	EMPTY	461.5		688.5	
Impinger No. 2	DI	589.9		589.0	
Impinger No. 3	EMPTY	629.9		632.5	
Impinger No. 4	SILICA	932.5		948.5	
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet



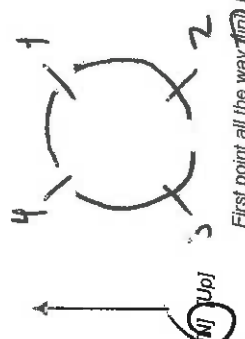
TESTING TYPE: HCl

METHOD NO. 26A

RUN NO. 1

Page 1 of 1

Client	<u>Bob Rivers</u>		
Plant	<u>Wilson</u>		
Location	<u>Wilson Outlet</u>		
Date	<u>7/14/11</u>	Project No.	<u>3648</u>
Meter Operator	<u>SH</u>		
Probe Operator	<u>SH</u>		
Meter ID	<u>M-3</u>	Yd	<u>.9371</u>
ΔH@	<u>1.407</u>	KF	<u>7.1</u>
Pre Leak Check	<u>0.00</u>	(ppm) [ppm] @	<u>5.15</u> (inHg)
Post Leak Check	<u>0.00</u>	(ppm) [ppm] @	<u>18</u> (inHg)



Barometric (inHg)	<u>29.51</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>95</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-.2</u>	Total Vic	
Probe ID	<u>AE-5/10-1</u>	Liner Type	<u>glass</u>
Nozzle ID	<u>.370</u>	Nozzle Dia (in)	<u>.370</u>
Filter ID	<u>N/A</u>	Train Type	<u>EB 24</u>
Train ID	<u>Imp</u>	Port Length (in)	<u>1.25</u>
Duct Dim. (in)	<u>408</u>		

Traverse Point	Mini/Point PO Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	.15	1.1	300.57	127	250	250	68	96	95	7	N/A	
2	20	.18	1.3	306.61	130	248	250	68	99	96	8		
3	30	.25	1.8	313.78	128	250	249	69	101	96	12		
1	40	.21	1.5	320.69	125	251	234	70	104	98	11		
2	50	.23	1.6	327.55	129	251	248	72	106	98	11		
3	60	.25	1.8	334.89	129	249	249	70	108	100	13		
1	70	.22	1.6	341.98	129	249	252	70	109	101	14		
2	80	.23	1.6	348.91	129	250	251	69	110	102	14		
3	90	.21	1.5	355.66	129	251	251	67	111	103	14		
1	100	.23	1.6	362.57	129	251	251	68	112	104	15		
2	110	.23	1.5	369.34	129	250	250	64	111	105	15		
3	120	.23	1.5	375.24	125	250	251	68	111	105	15		
Total		SSA	18.4	381.03	154.5				1270	1203			
Average			(1.53)		(128.78)								

21AP ~~SH~~
.21AP

Circle correct bracketed units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

2

TESTING TYPE: HCl

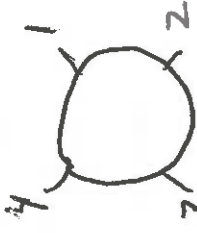
METHOD NO. 26A

Page 1 of 1

RUN NO. 2

Client	Big Rivers	
Plant	Wilson	
Location	Wilson Outlet	
Date	7/14/11	Project No. 3648
Meter Operator	SA	
Probe Operator	SA	
Meter ID	M-3	Yd 19891
ΔH@	1.807	Kf 8.1
Pre Leak Check	0.80	[ppm] [ppm] @
Post Leak Check	0.00	[ppm] [ppm] @
		Pitot Cp 184
		Leak check <input checked="" type="checkbox"/>

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-0.2	Total Vlc	
Probe ID	AE/5-10-1	Liner Type	56005
Nozzle ID	.370	Nozzle Dia (in)	.370
Filter ID	N/A		
Train ID	SH/2-8 1817	Train Type	17
Duct Dim (in)	4.08	Port Length (in)	17.25
Start Time	13:43	Stop Time	15:58



First point all the way [out]

Gas flow [in] [out] of page

Cross Section of Duct

Travel Point	Elapsed Time	Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	0.21	1.7	579.16	129	250	250	250	68	101	106	9	N/A	
2	20	0.22	1.8	593.78	128	249	257	257	69	102	100	11		
3	30	0.24	1.9	601.37	128	244	250	250	70	104	101	16		
1	40	0.21	1.7	608.65	128	251	251	251	71	112	102	10		
2	50	0.24	1.7	616.34	128	251	251	251	71	113	103	11		
3	60	0.20	1.6	623.53	128	251	250	250	72	114	104	10		
1	70	0.23	1.9	631.11	129	250	244	244	72	113	106	10		
2	80	0.25	2.0	638.83	129	250	249	249	72	113	107	12		
3	90	0.25	1.9	646.48	129	249	249	249	68	116	107	12		
1	100	0.23	1.9	654.08	129	250	251	251	68	116	108	12		
2	110	0.21	1.7	661.10	129	250	250	250	69	117	109	11		
3	120	0.23	1.9	669.07	129	250	250	250	69	117	109	11		
Total				899.91	129	250	250	250	69	117	109	11		
Average				5.6781	129	250	250	250	69	117	109	11		

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet

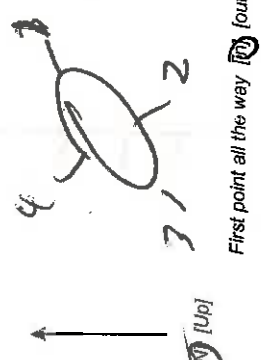
TESTING TYPE: HCl
METHOD NO. 26A

RUN NO. 3

Client	Big Rivers		
Plant	Wilson		
Location	Wilson Outlet		
Date	7/14/14	Project No.	3648
Meter Operator	SA		
Probe Operator	EA		
Meter ID	M-3	Yd	.9891
ΔH@	1.807	KF	8.1
Pre Leak Check	.010	(ppm) [ppm] @	22 (inHg)
Post Leak Check	0.00	(ppm) [ppm] @	18 (inHg)

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp. (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-2	Total Vic	
Probe ID	AE 5-10	Liner Type	gless
Nozzle ID	.37	Nozzle Dia (in)	.370
Filter ID	N/A		
Train ID	TS-24	Train Type	IMP
Duct Dim (in)	408	Port Length (in)	17.25

Start Time 16:43 Stop Time 18:43



Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	0.22	1.8	671.60	128	230	250	68	108	107	10	NA	
2	20	0.23	1.8	679.19	128	250	280	68	109	108	11		
1	30	0.22	1.8	686.84	128	249	249	69	113	106	11		
1	40	0.22	1.8	694.38	128	244	251	70	115	106	11		
2	50	0.22	1.8	701.91	128	251	250	70	116	107	11		
3	60	0.21	1.7	709.38	128	251	250	70	117	107	11		
1	70	0.23	1.9	716.74	128	251	250	71	118	107	11		
2	80	0.22	1.8	724.35	127	250	250	71	118	109	11		
3	90	0.20	1.6	731.88	127	244	250	71	119	110	12		
1	100	0.22	1.8	739.04	127	249	249	76	119	110	12		
2	110	0.19	1.5	746.31	128	250	250	76	119	112	11		
3	120	0.21	1.7	753.31	128	251	251	79	119	112	11		
Total		5.5730	19.3	760.58	128	251	251	79	119	112	12		
Average		1.4691	1.7583	88.98	1533	251	251	79	1391	1303	12		

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	BIGTURS		
Client	DB Wilson		
Location	STACIA		
Date	2/14/9	Time	
Operator	BL		

Run No.	26A 1		Filter No.	NA	
Method No.	26A 1		Filter No.	NA	
	Contents	Impinger Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	733.0	894.0	-50	
Impinger No. 2	H2SO4	597.0	628.0		
Impinger No. 3	EMPTY	509.0	527.0		
Impinger No. 4	SILICA	886.0	928.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2		Filter No.	NA	
Method No.	26A		Filter No.	NA	
	Contents	Impinger Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	610.0	808.0	-50	
Impinger No. 2	H2SO4	607.0	642.0		
Impinger No. 3	EMPTY	611.0	630.0		
Impinger No. 4	SILICA	857.0	895.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	23		Filter No.	NA	
Method No.	26A		Filter No.	NA	
	Contents	Impinger Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	746.0	1015.0	-50	
Impinger No. 2	H2SO4	602.0	558.0		
Impinger No. 3	EMPTY	515.0	535.0		
Impinger No. 4	SILICA	858.0	903.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

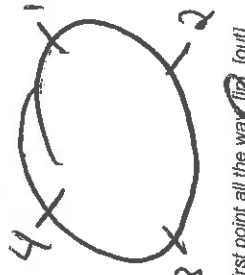
RUN NO. 1

TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 1

Client	Big Rivers		Water [ml] [g]	29.51
Plant	Wilson		Silica gel (g)	95
Location	Wilson Outlet		Total Vic	~2
Date	7/14/11	Project No.	3648	
Meter Operator	FA		Probe ID	
Probe Operator	SA		Nozzle ID	37
Meter ID	M-16	Yd	.9907	N/A
ΔH@	1.845	Kf	5.1	184
Pre Leak Check	0.00	[ppm] @	17	408
Post Leak Check	1.00	[ppm] @	10	



Barometric (inHg)	29.51	Water [ml] [g]	29.51
Ambient Temp (°F)	95	Silica gel (g)	95
Static (inH ₂ O)	~2	Total Vic	~2
Probe ID		Line Type	Glass
Nozzle ID	37	Nozzle Dia (in)	3.20
Filter ID	N/A	Train Type	IMP
Train ID	184	Port Length (in)	17.25
Duct Dim. (in)	408		
Start Time	9:56	Stop Time	12:25
	1009 EA		1024

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	0.25	1.3	52.32	128	250	250	68	100	95	6	N/A	
2	20	0.24	1.3	58.45	129	250	250	68	103	96	6		
3	30	0.22	1.1	64.61	129	250	250	68	107	98	6		
4	40	0.22	1.1	70.44	129	250	244	66	111	100	6		
2	50	0.25	1.3	76.58	130	250	245	66	111	100	6		
3	60	0.20	1.0	82.25	130	250	251	64	113	102	6		
1	70	0.20	1.0	87.89	130	250	256	64	114	103	6		
2	80	0.22	1.1	93.20	130	250	252	64	117	105	6		
3	90	0.24	1.3	99.70	130	250	250	62	115	105	6		
1	100	0.20	1.0	105.55	130	250	250	60	116	106	6		
2	110	0.22	1.2	110.65	130	250	248	60	116	109	6		
3	120	0.20	1.0	116.99	130	250	250	60	116	107	6		
Total	130	1.417	13.7	70.79	15.55	250	250		1339	1044			
Average		1.417	13.7	70.79	15.55	250	250		1339	1044			(106.8)

Circle correct bracketed values
Train Type denotes impingers, condensers, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

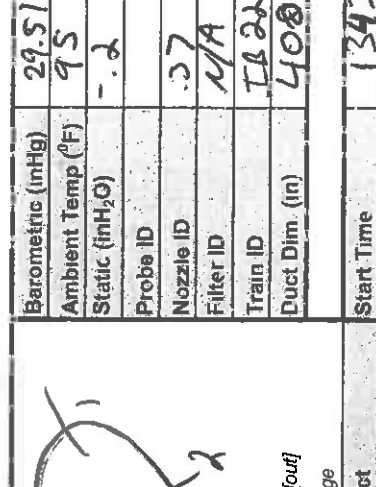
RUN NO. 2

METHOD NO. 29

Page 1 of 1

Client	Big Rivers		
Plant	Wilson		
Location	Outlet		
Date	7/14/11	Project No.	3648
Meter Operator	EA		
Probe Operator	SH		
Meter ID	M-16	Yd	.9907
ΔH@	1.845	Kf	5.2
Pre Leak Check	.000	(ppm) [ppm] @	15 (inHg)
Post Leak Check	0.2	(ppm) [ppm] @	16 (inHg)
Pitot Cp	.84		
Leak check	-		

Barometric (inHg)	29.51	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH ₂ O)	-.2	Total Vic	
Probe ID		Liner Type	
Nozzle ID	.37	Nozzle Dia (in)	.320 12
Filter ID	MA		
Train ID	1A22	Train Type	IMP
Duct Dim. (in)	4.00	Port Length (in)	7.25
Start Time	1343	Stop Time	1550



Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	.21	1.1	117.20	129	250	250	60	100	100	5	N/A	
2	20	.24	1.2	123.00	129	250	241	60	100	100	6		
3	30	.25	1.3	120.87	129	260	250	60	100	100	6		
1	40	.20	1.0	134.98	129	251	249	58	100	102	5		
2	50	.22	1.1	140.58	129	251	254	58	100	102	6		
3	60	.22	1.1	146.39	129	250	250	58	111	102	6		
1	70	.23	1.2	152.20	129	251	254	58	113	104	6		
2	80	.23	1.2	158.20	127	251	248	58	114	105	6		
3	90	.23	1.2	164.50	130	250	251	56	116	106	6		
1	100	.20	1.0	170.09	130	251	245	56	116	106	6		
2	110	.25	1.3	175.81	130	251	250	57	117	107	6		
3	120	.25	1.3	181.81	130	250	250	58	117	108	6		
		.24	1.2	187.82	130	250	250	58	117	108	6		
Total		5.70	13.9	10.62	131				1340	1408			
Average		6.4758	11.583	11.583	129.3				1340	1408			

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

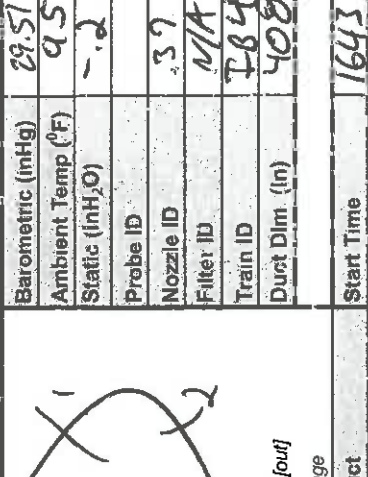
TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 1

RUN NO. 3

Client	Big Rivers		Water [ml] [g]	29.51
Plant	Wilson		Silica gel (g)	9.5
Location	Outlet		Total Vlc	-0.2
Date	7/14/11	Project No.	3648	
Meter Operator	EA		Probe ID	
Probe Operator	SH		Nozzle ID	39
Meter ID	N-16	Yd	MA	320.32
ΔH@	1.845	Kf	F84	FMP
Pitot Cp	.9907	Leak check	408	7.25
Pre Leak Check	.000	Leak check		
Post Leak Check	0.00	Leak check		



Gas flow [in] (up) of page

Cross Section of Duct

Start Time 1643 Stop Time 1858

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	.23	1.2	188.20	128	250	250	54	105	105	6	N/A	
2	20	.24	1.2	194.47	129	247	245	54	104	103	6		
3	30	.25	1.2	200.33	129	250	249	54	110	104	6		
4	40	.20	1.0	206.39	129	251	249	55	112	104	6		
25	50	.21	1.1	212.05	129	251	253	54	113	105	6		
36	60	.20	1.0	217.85	129	250	259	55	114	105	6		
17	70	.24	1.2	223.54	129	252	252	59	116	109	7		
28	80	.27	1.4	229.75	128	250	255	59	117	108	7		
39	90	.25	1.3	236.15	129	251	261	63	117	108	7		
110	100	.19	.97	242.30	129	252	252	65	117	108	7		
27	110	.21	1.1	248.10	130	250	259	67	117	108	6		
2	120	.20	1.0	253.90	130	250	254	68	117	108	6		
Total		5.673	13.77	250.50	136.2	127.5							
Average		4.728	11.475	171.30	129.0								

Circle correct bracketed [] units
Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3048

Page 1 of 1

Client	Big Rivers Energy - Wilson Station		
Plant	Brenshaw K ²		
Location	Stack		
Date	7-13-11	Unit	
Operator	m		

Run No.	1	Method No.	29	Filter No.		Filter No.	NA
	Contents	Take with Contents (g)	Final (g)	Total (g)	Notes		
Impinger No. 1	Empty	557.3	752.4	-50			
Impinger No. 2	5% / 10%	731.4	754.1				
Impinger No. 3	5% / 10%	677.7	685.1				
Impinger No. 4	Empty	572.5	577.4				
Impinger No. 5	Silica	872.3	871.0				
Impinger No. 6							
Impinger No. 7							
Additional Rinse							
				Net Weight (g)			

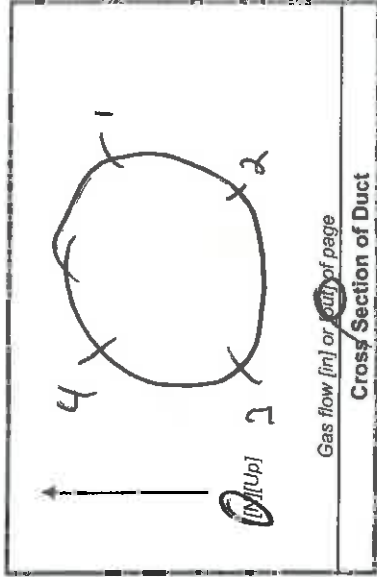
Run No.	2	Method No.	29	Filter No.		Filter No.	NA
	Contents	Take with Contents (g)	Final (g)	Total (g)	Notes		
Impinger No. 1	Empty	593.7	807.5	-50			
Impinger No. 2	5% / 10%	625.6	655.1				
Impinger No. 3	5% / 10%	710.0	722.2				
Impinger No. 4	Empty	626.8	635.1				
Impinger No. 5	Silica	856.0	827.0				
Impinger No. 6							
Impinger No. 7							
Additional Rinse							
				Net Weight (g)			

Run No.	3	Method No.	29	Filter No.		Filter No.	NA
	Contents	Take with Contents (g)	Final (g)	Total (g)	Notes		
Impinger No. 1	Empty	565.6	777.7	-50			
Impinger No. 2	5% / 10%	736.7	757.4				
Impinger No. 3	5% / 10%	685.8	697.2				
Impinger No. 4	Empty	580.8	580.0				
Impinger No. 5	Silica	871.1	916.0				
Impinger No. 6							
Impinger No. 7							
Additional Rinse							
				Net Weight (g)			

Run No. _____

Page 1 of 2

Client	Big Rivers
Plant	Wilson
Location	Outlet
Date	7/15/11 EA
Project No.	3648
Meter Reader	EA



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-2
Ambient Temp. (°F)	85
Start Time	807
Stop Time	937

Sample Train A

Trap ID	95008	Meter ID	R19079A	Yd	1.000 EA
Pre Leak Check	.000	lpm @	17	(in. Hg)	99.78
Post Leak Check	.000	lpm @	17	(in. Hg)	

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	150	0.000	129	88	4	244
10		2.037	129	89	4	244
15		3.617	129	89	4	244
20		5.729	129	89	4	245
25		8.115	130	89	4	245
30		10.222	130	89	4	245
35		12.140	130	89	4	245
40		14.005	130	89	4	244
45		15.895	130	89	4	244
50		17.809	130	89	4	244
55		20.111	130	90	5	244
60		22.010	130	91	5	244
60		24.307	130	91	5	244
Total		(52.862)	1556	1002		
Average			129.8	89.9		

Sample Train B ~~Spiked~~

Trap ID	72483	Meter ID	R19075B	Yd	1.000 EA
Pre Leak Check	.000	lpm @	10	(in. Hg)	
Post Leak Check	.000	lpm @	7	(in. Hg)	

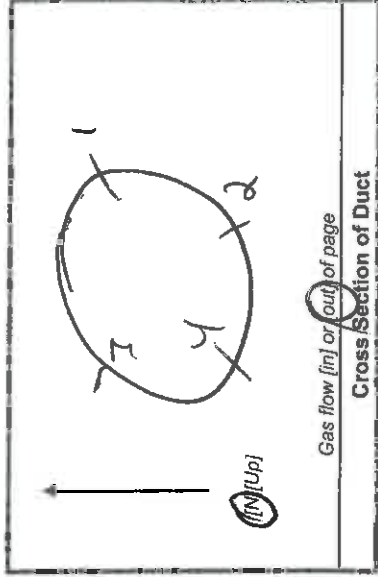
Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	40	0.000	129	89	4	244
10		1.975	129	89	4	244
15		3.689	129	89	4	245
20		5.890	130	89	4	245
25		8.200	130	89	4	245
30		11.717	130	90	4	245
35		13.528	130	90	4	244
40		15.535	130	90	4	244
45		17.845	130	91	4	244
50		20.222	130	91	4	244
55		22.070	130	91	4	244
60		24.245	130	92	4	244
Total		(56.173)	1556	1030		
Average			129.8	90.7		

9.720
11.717
13.528
15.535
17.845

Run No. _____

Page 2 of 2

Client	Big RWMS
Plant	Wilson
Location	Wilson
Date	7/11/11 EA
Project No.	3648
Meter Reader	EA



Barometric (in. Hg)	-2
Static (inH ₂ O)	8.5
Ambient Temp. (°F)	80.9
Start Time	9:39
Stop Time	

Sample Train A

Trap ID	95008	Meter ID	R19075A	Yd	17
Pre Leak Check		lpm @	000	(in. Hg)	17
Post Leak Check		lpm @	000	(in. Hg)	17

Sample Train B	Soj Red	Meter ID	R19075B	Yd	10
Pre Leak Check		lpm @	000	(in. Hg)	10
Post Leak Check		lpm @	000	(in. Hg)	17

1.0000 EA

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	0.000	4	26253	130	91	5	Trap
70			28053	130	91	5	244
75			29917	130	91	5	244
80			31995	130	91	5	244
85			34099	130	91	5	244
90			35862	130	91	5	244
Total							
Average							

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	0.000	4	26064	130	92	4	Trap
70			27772	130	92	4	244
75			29528	130	92	4	244
80			31227	130	92	4	244
85			34320	130	92	4	244
90			36173	130	92	4	244
Total							
Average							

25.862

780 546

29.8 89.9

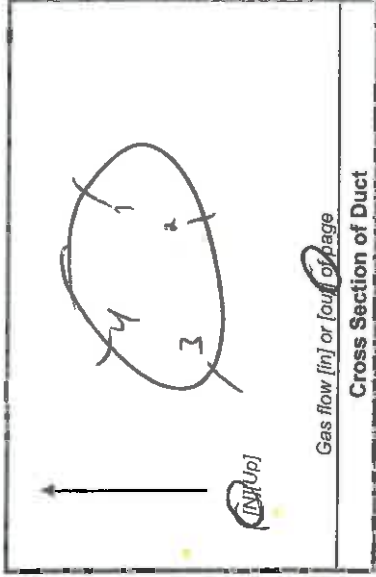
720 552

117.8 90.7

Run No. 2

Page 1 of 2

Client	Big Rivers
Plant	Wilson
Location	Outlet
Date	7/15/11 EA
Project No.	3648
Meter Reader	EA



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-1.2
Ambient Temp. (°F)	90
Start Time	11:15
Stop Time	12:46

Sample Train A

Trap ID	94423	Meter ID	R19075A	Yd	10
Pre Leak Check		lpm @	1001		(in. Hg)
Post Leak Check		lpm @	806		(in. Hg)

Sample Train B Soiled

Trap ID	72492	Meter ID	K19075B	Yd	11
Pre Leak Check		lpm @	802		(in. Hg)
Post Leak Check		lpm @	7		(in. Hg)

1.0000 EA

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	0.000	131	90	6	240
10		1.840	131	90	6	240
15		3.470	131	90	6	240
20		6.106	132	90	6	241
25		8.250	133	90	6	240
30		10.261	133	91	6	240
35		12.255	133	91	6	244
40		14.099	133	91	6	244
45		15.939	133	91	6	244
50		17.922	133	92	6	244
55		20.115	133	92	6	244
60		22.230	133	92	6	244
60		24.285	133	92	6	244
Total		35.600	132.3	1091		
Average			132.3	7.65		

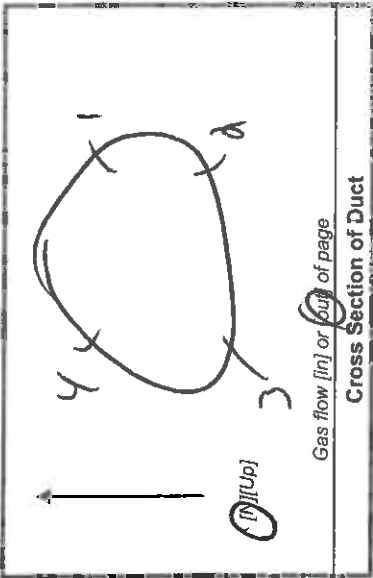
Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	0.000	131	91	5	240
10		1.971	131	91	5	240
15		5.855	131	91	5	240
20		7.939	132	91	5	241
25		9.939	133	91	5	240
30		12.115	133	92	5	244
35		13.856	133	92	5	244
40		15.862	133	92	5	244
45		17.851	137	93	5	244
50		19.833	135	93	5	244
55		21.805	135	93	5	244
60		23.790	135	93	5	244
Total		35.985	132.3	1103		
Average			132.3	7.71		

92.6

Run No. 2

Page 2 of 2

Client	Diabiron
Plant	Wilson
Location	Outlet
Date	7/15/11
Project No.	3648
Meter Reader	EA



Barometric (in. Hg)	-2
Static (inH ₂ O)	90
Ambient Temp. (°F)	
Start Time	
Stop Time	

Sample Train A

Trap ID	94473	Meter ID	R4075A	Yd	1000 EA
Pre Leak Check	90	lpm @	8	(in. Hg)	998
Post Leak Check	80	lpm @	8	(in. Hg)	

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	4	0.000	132	93	6	Trap
70	4	26.246	132	93	6	244
75	4	28.309	132	93	6	244
80	4	29.997	132	93	6	244
85	4	31.822	132	93	6	244
90	4	33.805	132	93	6	244
		35.680	132	93	6	244
Total		30080	792	558		
Average			132.5	91.6		

Sample Train B Spiked

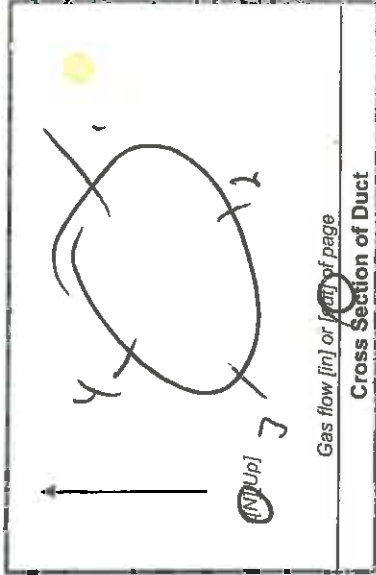
Trap ID	72492	Meter ID	R4075B	Yd	1000 EA
Pre Leak Check	90	lpm @	7	(in. Hg)	995
Post Leak Check	80	lpm @	7	(in. Hg)	

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	4	0.000	132	94	5	Trap
70	4	25.762	132	94	5	244
75	4	27.815	132	94	5	244
80	4	29.891	132	94	5	244
85	4	31.987	132	94	5	244
90	4	34.072	132	94	5	244
		35.905	132	94	5	244
Total		35.985	792	564		
Average			132.5	92.7		

Run No. 3

Page 1 of 2

Client	Big River
Plant	Wilson
Location	Outlet
Date	7/15/11 EA
Project No.	BC48
Meter Reader	EA



Barometric (in. Hg)	29.56
Static (inH ₂ O)	-
Ambient Temp. (°F)	90
Start Time	1406
Stop Time	1538

1612

Sample Train A

Trap ID	9498I	Meter ID	2407A	Yd	10
Pre Leak Check	003	ipm @		ipm @	5
Post Leak Check	000	ipm @		ipm @	5

Sample Train B Spiked

Trap ID	72182	Meter ID	R107SB	Yd	10
Pre Leak Check	001	ipm @		ipm @	6
Post Leak Check	000	ipm @		ipm @	6

1.0000 EA

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	40	0.000	89	92	5	Tap
10		4.139	129	92	5	244
15		5.832	129	92	5	244
20		7.844	129	92	5	244
25		9.794	129	92	5	244
30		11.660	129	92	5	244
35		13.928	130	93	5	244
40		16.020	130	93	5	244
45		18.110	130	93	5	244
50		20.597	130	93	5	244
55		22.269	130	93	5	244
60		24.220	130	93	5	244
Total		75.850	130.0	92.7		
Average			130.0	92.7		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	40	0.000	129	95	5	Tap
10		4.362	129	93	5	244
15		6.002	129	93	5	244
20		7.699	129	93	5	244
25		9.677	129	93	5	244
30		11.692	129	93	5	244
35		13.766	130	94	5	244
40		15.811	130	94	5	244
45		17.822	130	94	5	244
50		19.950	130	94	5	244
55		21.872	130	94	5	244
60		23.812	130	94	5	244
Total		76.090	130.0	94.7		
Average			130.0	94.7		

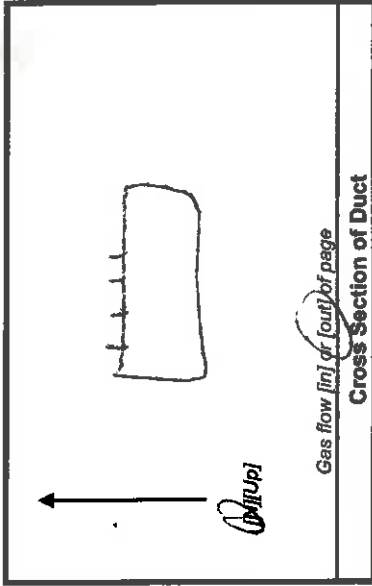
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AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 41

Page 1 of 2

Client	Big Rivers
Plant	DB, Wilson
Location	SCR outlet #1
Date	7-25-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	93
Start Time	8:30
Stop Time	9:00

Sample Train A

Rental

Trap ID	9410	Meter ID	R-20028	Yd	10078
Pre Leak Check	1000	lpm @	18	(in. Hg)	
Post Leak Check	1000	lpm @	19	(in. Hg)	

Sample Train B

Trap ID	9437	Meter ID	R-20028	Yd	1995
Pre Leak Check	1000	lpm @	15	(in. Hg)	
Post Leak Check	1000	lpm @	12	(in. Hg)	

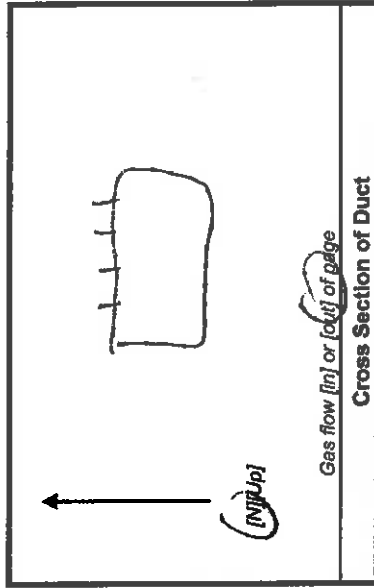
Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	0.00	320	94	5	
10	.5	2.15	320	94	5	TS-276
15	.5	4.09	296	94	5	
20	.5	5.82	310	96	5	
25	.5	7.80	320	98	5	
30	.5	9.90	320	98	7	
35	.5	12.19	320	101	8	
40	.5	14.20	320	102	8	
45	.5	16.79	320	102	8	
50	.5	19.63	320	105	9	
55	.5	22.45	320	106	10	
60	.5	25.17	331	107	10	
60	.5	27.61	334	107	10	
Total		(43.77)	324	102		
Average		(31.27)				

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	0.00	276	94	3	
10	.5	2.65	276	94	3	W/S.25
15	.5	4.16	296	94	3	
20	.5	7.95	210	96	3	
25	.5	10.16	320	98	3	
30	.5	13.10	320	98	3	
35	.5	15.14	320	101	3	
40	.5	16.24	320	102	3	
45	.5	20.14	320	105	3	
50	.5	23.61	320	100	3	
55	.5	25.82	321	107	3	
60	.5	28.36	334	107	3	
Total		(43.17)	324	102		
Average		(31.27)				

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. XX

Client	Big Rivers
Plant	DB Wilson
Location	See outlet #1
Date	7-25-11
Project No.	3648
Meter Reader	CS



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	83
Start Time	8:39
Stop Time	10:00

7-30
9:00

Sample Train A

Trap ID	94401	Meter ID	R-2007E	Yd	1.0010
Pre Leak Check	0.00	ipm @	18	(in. Hg)	
Post Leak Check	1.000	ipm @	19	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Σ		0.00				
Elapsed Time						
65	.5	30.40	334	108	10	
70	.5	33.19	334	108	10	
75	.5	36.00	334	109	11	
80	.5	39.06	334	109	11	
85	.5	41.36	334	109	11	
90	.5	43.77	334	109	11	
Total		43.77			658	
Average		319.7			103	

Sample Train B

Trap ID	94771	Meter ID	R-2007B	Yd	1.985
Pre Leak Check	0.00	ipm @	15	(in. Hg)	
Post Leak Check	1.000	ipm @	12	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Σ		0.00				
Elapsed Time						
65	.5	30.77	334	106	3	
70	.5	33.24	334	108	3	
75	.5	35.66	334	109	3	
80	.5	38.19	334	109	3	
85	.5	40.69	334	109	3	
90	.5	43.17	334	109	3	
Total		43.17			627	
Average		319.7			103	

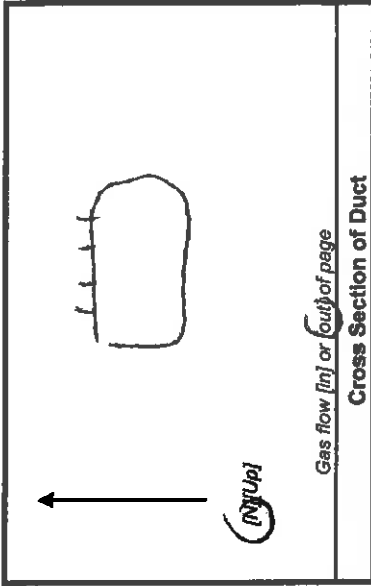
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 82

Client	Big Rivers
Plant	DB Wilson
Location	SCR outlet #1
Date	7-25-11
Project No.	3675
Meter Reader	C.S.

Page 1 of 2

Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	90
Start Time	9:33
Stop Time	11:03



Raw

Sample Train A

Trap ID	94440	Meter ID	R-2002	Yd	1.007
Pre Leak Check		lpm @	1000	lpm @	16
Post Leak Check		lpm @	1000	lpm @	15

Sample Train B

Trap ID	94325	Meter ID	R-2001d	Yd	1.9985
Pre Leak Check		lpm @	1000	lpm @	15
Post Leak Check		lpm @	1000	lpm @	10

Min/Point	S	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
	5	2.6	.5	0.20	309	102	7	no 2.19
	10	4.67	.5		311	103	7	
	15	6.97	.5		311	103	7	
	20	9.17	.5		311	104	7	
	25	11.42	.5		311	105	8	
	30	13.68	.5		311	106	8	
	35	15.70	.5		311	107	9	
	40	18.06	.5		311	107	9	
	45	20.86	.5		311	107	9	
	50	23.40	.5		311	109	9	
	55	25.92	.5		311	110	10	
	60	28.42	.5		311	110	10	
Total					3720	107		
Average					310.88	107.7		

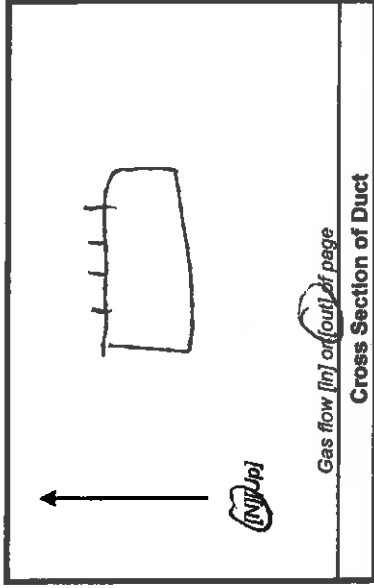
Min/Point	S	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
	5	0.00	.5	0.00	309	102	3	
	10	2.31	.5		311	103	3	
	15	4.86	.5		311	103	3	
	20	6.93	.5		311	104	3	
	25	8.96	.5		311	105	3	
	30	11.02	.5		311	106	3	
	35	13.25	.5		311	107	3	
	40	15.51	.5		311	107	3	
	45	17.89	.5		311	107	3	
	50	20.69	.5		311	107	3	
	55	23.11	.5		311	109	3	
	55	25.39	.5		311	110	3	
	60	27.92	.5		311	110	3	
Total				4307	3730	107.7		
Average					310.88	107.7		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	Big Riv.
Plant	DB Wilson
Location	Scr outlet #1
Date	7-25-11
Project No.	3648
Meter Reader	C-S



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	90
Start Time	9:33
Stop Time	11:03

Sample Train A

Trap ID	94440	Meter ID	R-10028	Yd	10070
Pre Leak Check		ipm @	0.00	ipm @	16
Post Leak Check		ipm @	0.00	ipm @	15

Rental

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	30.59	311	110	10	
70	.5	33.29	311	111	10	
75	.5	35.86	311	111	10	
80	.5	38.12	311	111	11	
85	.5	40.36	311	112	11	
90	.5	42.89	311	112	11	
Total		42.89	311	112	11	
Average		42.89	311	112	11	

Sample Train B

Trap ID	94325	Meter ID	R-10028	Yd	10985
Pre Leak Check		ipm @	1.00	ipm @	10
Post Leak Check		ipm @	1.00	ipm @	10

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	30.42	311	110	3	
70	.5	33.06	311	111	3	
75	.5	35.76	311	111	3	
80	.5	38.25	311	111	3	
85	.5	40.74	311	112	3	
90	.5	43.07	311	112	3	
Total		43.07	311	112	3	
Average		43.07	311	112	3	

1273

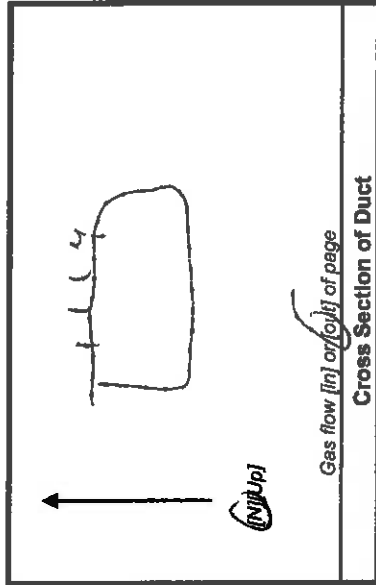
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 83

Page 1 of 0

Client	B.g. Rivers
Plant	DB Wilson
Location	Scr outlet #1
Date	7-25-11
Project No.	3648
Meter Reader	C.S.



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	92
Start Time	11:30
Stop Time	13:00

Sample Train A

Trap ID		Meter ID	R-20078	Yd	100TP
Pre Leak Check	1000	ipm @	17	(in. Hg)	
Post Leak Check	1000	ipm @	18	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	3.01	325	108	7	
10	.5	6.12	325	108	7	
15	.5	8.36	329	109	7	
20	.5	10.69	329	110	7	
25	.5	12.86	329	111	7	
30	.5	15.21	329	111	8	
35	.5	17.71	329	112	8	
40	.5	20.07	329	112	8	
45	.5	22.56	329	113	8	
50	.5	24.81	329	113	9	
55	.5	27.22	329	113	9	
60	.5	29.69	329	113	9	
Total		43.99	2940	1333		
Average		328.58				

Sample Train B

Trap ID		Meter ID	R-20078	Yd	9965
Pre Leak Check	1000	ipm @	15	(in. Hg)	
Post Leak Check	1000	ipm @	12	(in. Hg)	

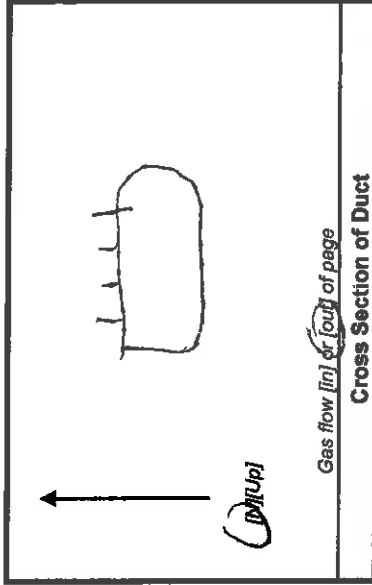
Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	3.12	325	108	3	
10	.5	6.38	325	108	3	
15	.5	8.78	329	109	3	
20	.5	10.90	329	110	3	col 6090
25	.5	13.07	329	111	3	
30	.5	15.39	329	111	3	
35	.5	17.88	329	112	3	
40	.5	20.22	329	112	3	
45	.5	22.71	329	113	3	
50	.5	24.99	329	113	3	
55	.5	27.41	329	113	3	
60	.5	29.87	329	113	7	
Total		44.39	2940	1333		
Average		328.53				

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Client	Big River
Plant	DB Wilson
Location	Scr outlet #1
Date	7-25-11
Project No.	3648
Meter Reader	CS



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	92
Start Time	11:30
Stop Time	13:00

Sample Train A

Trap ID	94469	Meter ID	7-20078	Yd	1007
Pre Leak Check		lpm @	17	(in. Hg)	
Post Leak Check		lpm @	18	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	32.03	329	114	10	
70	.5	34.53	329	115	10	
75	.5	36.87	329	115	10	
80	.5	39.30	329	115	10	
85	.5	41.71	329	115	10	
90	.5	43.99	329	115	10	
95	.5	46.30	329	115	10	
100	.5	48.61	329	115	10	
105	.5	50.92	329	115	10	
110	.5	53.23	329	115	10	
115	.5	55.54	329	115	10	
120	.5	57.85	329	115	10	
125	.5	60.16	329	115	10	
Total		43.99	328.55	684		
Average			112.33	112.33		

Vol

3940

Sample Train B

Trap ID	94291	Meter ID	7-20018	Yd	9985
Pre Leak Check		lpm @	15	(in. Hg)	
Post Leak Check		lpm @	12	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	32.10	329	114	3	
70	.5	34.50	329	115	3	
75	.5	36.90	329	115	3	
80	.5	39.46	329	115	3	
85	.5	41.92	329	115	3	
90	.5	44.39	329	115	3	
95	.5	46.85	329	115	3	
100	.5	49.31	329	115	3	
105	.5	51.77	329	115	3	
110	.5	54.23	329	115	3	
115	.5	56.69	329	115	3	
120	.5	59.15	329	115	3	
125	.5	61.61	329	115	3	
130	.5	64.07	329	115	3	
135	.5	66.53	329	115	3	
140	.5	68.99	329	115	3	
145	.5	71.45	329	115	3	
150	.5	73.91	329	115	3	
155	.5	76.37	329	115	3	
160	.5	78.83	329	115	3	
Total		44.39	328.55	1974		
Average			112.33	112.33		

1333

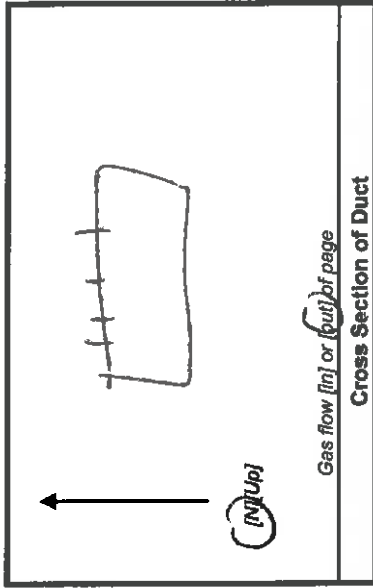
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 8 / 1

Page 1 of 2

Client	Big River
Plant	DB Wilson
Location	Scr Outlet #2
Date	7-25-11
Project No.	3648
Meter Reader	C-S



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.1
Ambient Temp. (°F)	83
Start Time	7:30
Stop Time	9:00

Sample Train A

Trap ID	94494	Meter ID	25A	Yd	1994
Pre Leak Check	1000	ipm @	15	(in. Hg)	
Post Leak Check	1000	ipm @	10	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	2.40	320	87	5	
10	.5	3.96	320	88	5	
15	.5	6.16	320	88	5	
20	.5	8.09	320	89	5	
25	.5	10.24	320	92	5	
30	.5	12.42	311	96	5	
35	.5	14.71	325	97	7	
40	.5	17.59	330	98	7	
45	.5	19.75	330	100	9	
50	.5	22.84	320	102	9	
55	.5	25.27	320	104	10	
60	.5	26.37	320	106	10	
Total		411.0	3856	1117		
Average		320.88	320	100.33		

Sample Train B

Trap ID	94246	Meter ID	25B	Yd	10017
Pre Leak Check	1000	ipm @	15	(in. Hg)	
Post Leak Check	1000	ipm @	12	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.5	2.35	320	87	3	
10	.5	4.86	320	88	3	
15	.5	6.62	320	88	3	
20	.5	8.29	320	89	3	
25	.5	10.64	320	92	3	
30	.5	12.81	311	96	3	
35	.5	14.90	325	97	3	
40	.5	16.88	330	98	3	
45	.5	20.86	330	100	3	
50	.5	23.80	320	102	3	
55	.5	26.01	320	104	3	
60	.5	28.5	320	106	3	
Total		411.1	3856	1117		
Average		320	320	100.33		

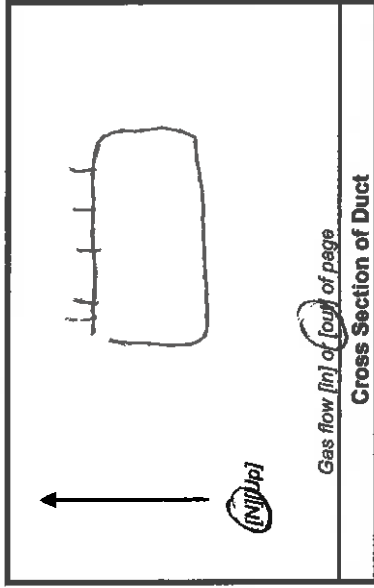
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 21

Page 2 of 2

Client	Big River
Plant	DB Wilson
Location	Scr outlet H ₂ O
Date	7-25-11
Project No.	3048
Meter Reader	C-5



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.1
Ambient Temp. (°F)	83
Start Time	7:30
Stop Time	9:00

Sample Train A

Trap ID	94999	Meter ID	25A	Yd	1999
Pre Leak Check	1.000	ipm @	18	(in. Hg)	
Post Leak Check	1.000	ipm @	16	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	27.77	320	107	10	
70	.5	30.61	320	108	11	
75	.5	34.53	320	110	11	
80	.5	36.47	320	111	11	
85	.5	38.89	320	111	11	
90	.5	41.42	320	112	11	
Total		41.40	1970	320.81	100.53	
Average						

Sample Train B

Trap ID	94246	Meter ID	25B	Yd	10017
Pre Leak Check	1.000	ipm @	15	(in. Hg)	
Post Leak Check	1.000	ipm @	12	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.5	30.16	320	107	3	
70	.5	32.01	320	108	3	
75	.5	33.81	320	110	3	
80	.5	35.96	320	111	3	
85	.5	38.57	320	111	3	
90	.5	41.19	320	112	3	
Total		41.19	320.88	100.33		
Average						

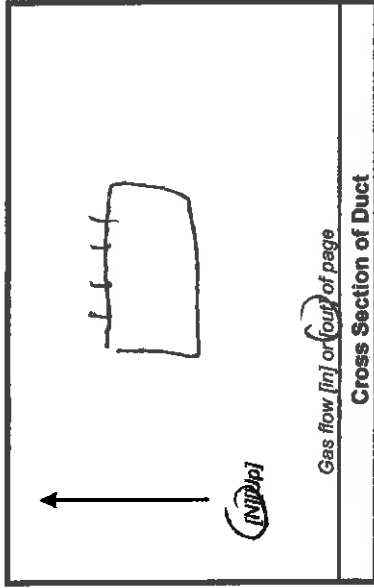
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 82

Client	Big Rivers
Plant	DB Wilson
Location	Sec outlet # 2
Date	7-25-11
Project No.	3648
Meter Reader	C-S

Page 1 of 2

Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.1
Ambient Temp. (°F)	90
Start Time	9:33
Stop Time	11:03



Sample Train A

Trap ID	9443	Meter ID	25A	Yd	994
Pre Leak Check	000	ipm @		19	(in. Hg)
Post Leak Check	000	ipm @		16	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Elapsed Time						
5	.5	2.51	317	104	7	
10	.5	5.08	317	105	7	
15	.5	7.07	317	105	8	
20	.5	9.06	317	105	9	
25	.5	11.56	317	106	9	
30	.5	13.76	317	106	9	
35	.5	15.80	317	107	9	
40	.5	18.00	317	107	10	
45	.5	21.06	317	108	10	
50	.5	23.46	317	109	11	
55	.5	26.11	317	110	11	
60	.5	28.26	317	110	11	
Total		41.91	317	110	1280	
Average			317	108.05		

Sample Train B

Trap ID	99248	Meter ID	25B	Yd	1.0017
Pre Leak Check	1000	ipm @		15	(in. Hg)
Post Leak Check	0000	ipm @		8	(in. Hg)

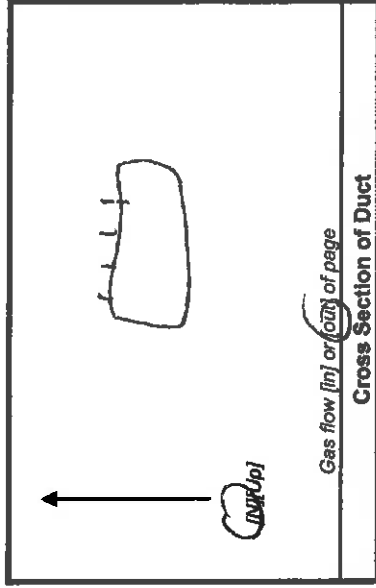
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
Elapsed Time						
5	.5	2.62	317	104	3	
10	.5	4.82	317	105	3	
15	.5	7.06	317	105	3	
20	.5	9.51	317	105	3	
25	.5	11.86	317	106	3	
30	.5	13.15	317	106	3	
35	.5	15.46	317	107	3	
40	.5	17.87	317	107	3	
45	.5	20.77	317	108	3	
50	.5	23.23	317	109	3	
55	.5	25.79	317	110	3	
60	.5	28.42	317	110	3	
Total		41.32	317	110	1780	
Average			317	108.0		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 82

Page 2 of 2

Client	Big Rivers
Plant	DB Wilson
Location	Scr Outlet #2
Date	7-25-11
Project No.	3648
Meter Reader	CS



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.1
Ambient Temp. (°F)	90
Start Time	9:33
Stop Time	11:03

Sample Train A

Trap ID	94431	Meter ID	25A	Yd	1994
Pre Leak Check	1.00	ipm @	19	(in. Hg)	
Post Leak Check	1.00	ipm @	16	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		0.00				
65	.5	31.09	317	110	11	
70	.5	33.13	317	110	11	
75	.5	35.07	317	110	11	
80	.5	37.46	317	111	11	
85	.5	39.43	317	111	11	
90	.5	41.59	317	111	11	
Total		41.59	1909	663		
Average		317	10194	10805		

3804
10805

Sample Train B

Trap ID	94248	Meter ID	25B	Yd	10017
Pre Leak Check	1.00	ipm @	15	(in. Hg)	
Post Leak Check	1.00	ipm @	8	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		0.00				
65	.5	31.16	317	110	3	
70	.5	33.24	317	110	3	
75	.5	35.06	317	110	3	
80	.5	37.57	317	110	3	
85	.5	39.47	317	111	3	
90	.5	41.32	317	111	3	
Total		41.32	1909	663		
Average		317	10194	10805		

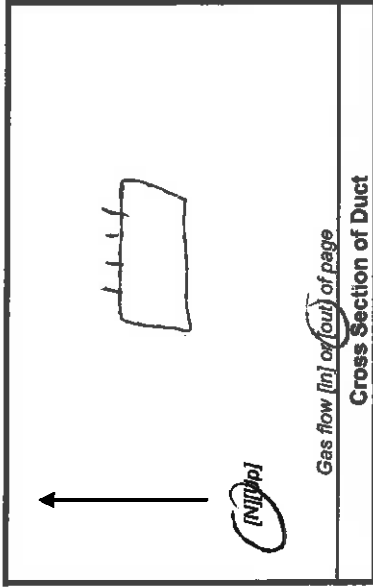
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AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. 83

Page 1 of 2

Client	Big River
Plant	DB Wilson
Location	scr outlet #0
Date	7-25-11
Project No.	3648
Meter Reader	C.S.



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.1
Ambient Temp. (°F)	92
Start Time	11:30
Stop Time	13:00

Sample Train A

Trap ID	94430	Meter ID	25A	Yd	17
Pre Leak Check		lpm @	1000	lpm @	17
Post Leak Check		lpm @	1000	lpm @	16

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
5	.5	2.80	325	110	6	
10	.5	4.75	325	111	7	
15	.5	6.72	325	112	7	
20	.5	9.16	325	112	7	
25	.5	11.39	325	114	7	
30	.5	13.86	325	114	8	
35	.5	16.12	325	115	8	
40	.5	18.27	325	115	9	
45	.5	20.70	325	116	9	
50	.5	23.01	325	116	9	
55	.5	25.36	325	116	9	
60	.5	27.79	325	117	9	
Total			3900	1368		
Average						

Sample Train B

Trap ID	94308	Meter ID	25B	Yd	12
Pre Leak Check		lpm @	1000	lpm @	12
Post Leak Check		lpm @	1000	lpm @	12

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
5	.5	2.74	325	110	4	
10	.5	4.14	325	111	4	
15	.5	6.36	325	110	4	
20	.5	8.87	325	112	4	
25	.5	11.10	325	114	4	
30	.5	13.37	325	114	4	
35	.5	15.89	325	115	4	
40	.5	18.17	325	115	4	
45	.5	20.52	325	116	4	
50	.5	22.96	325	116	4	
55	.5	25.40	325	116	4	
60	.5	28.02	325	117	4	
Total			3900	1368		
Average						

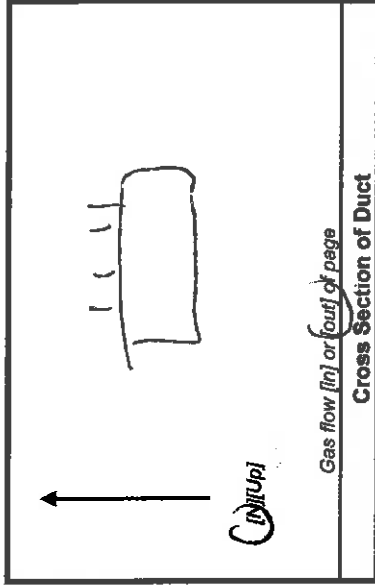
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. RB

Page 2 of 2

Client	Big River
Plant	DB Wilson
Location	Scr # 2 outlet
Date	7-25-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-161
Ambient Temp. (°F)	92
Start Time	11:30
Stop Time	13:00

Sample Train A

Trap ID	94430	Meter ID	25A	Yd	9994
Pre Leak Check	1000	ipm @	17	(in. Hg)	
Post Leak Check	1000	ipm @	16	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		0.00				
Elapsed Time						
65	.5	36.17	325	117	9	
70	.5	37.39	325	117	9	
75	.5	34.79	325	117	11	
80	.5	37.67	325	117	11	
85	.5	39.28	325	118	11	
90	.5	41.78	325	118	11	
Total						
Average						

Sample Train B

Trap ID	94308	Meter ID	25B	Yd	10017
Pre Leak Check	1000	ipm @	15	(in. Hg)	
Post Leak Check	1000	ipm @	12	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		0.00				
Elapsed Time						
65	.5	30.46	325	117	9	
70	.5	32.90	325	117	9	
75	.5	35.27	325	117	9	
80	.5	37.57	325	117	9	
85	.5	40.09	325	118	9	
90	.5	42.49	325	118	9	
Total						
Average						

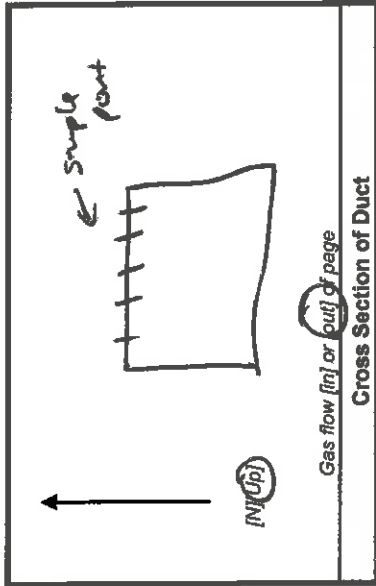
3900

1368

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-1 Pet coke blend

Client	<u>Big Rivers</u>
Plant	<u>R.B. Wilson</u>
Location	<u>Inlet #3</u>
Date	<u>7/25/11</u>
Project No.	<u>364E</u>
Meter Reader	<u>RC</u>



Barometric (in. Hg)	<u>29.48</u>
Static (inH ₂ O)	<u>-16.9</u>
Ambient Temp. (°F)	<u>85</u>
Start Time	<u>7:30</u>
Stop Time	<u>9:00</u>

Sample Train A Tube # 94416

Sample Train B Spiked Tube # 94307

Trap ID	<u>—</u>	Meter ID	<u>M-26</u>	Yd	<u>9458</u>
Pre Leak Check	<u>.000</u>	ipm @	<u>22</u>	(in. Hg)	
Post Leak Check	<u>.000</u>	ipm @	<u>20</u>	(in. Hg)	

Trap ID	<u>—</u>	Meter ID	<u>M-26</u>	Yd	<u>9902</u>
Pre Leak Check	<u>.000</u>	ipm @	<u>17</u>	(in. Hg)	
Post Leak Check	<u>.000</u>	ipm @	<u>15</u>	(in. Hg)	

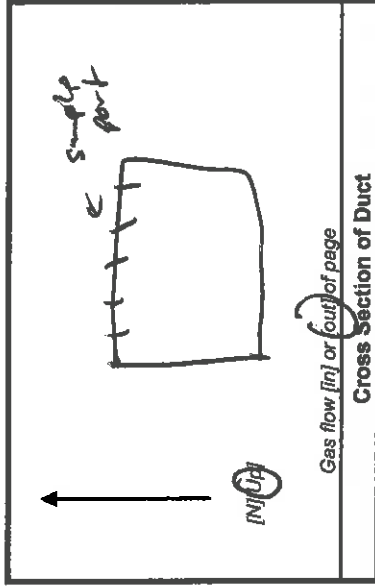
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	75 LAM	3.028	346	86	6	
10		5.454	347	89	6	
15		7.542	347	91	6	
20		9.485	347	92	6	
25		11.131	348	94	6	
30		12.983	348	96	6	
35		14.422	350	97	6	
40		15.888	347	98	6	
45		17.558	350	99	8	
50		19.079	349	100	8	
55		20.737	348	102	8	
60		22.101	348	101	8	
Total			4175	1145		
Average			348.8	98.1		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	75 LAM	2.513	346	88	2	
10		4.827	347	91	2	
15		6.247	347	93	2	
20		8.253	347	94	2	
25		10.984	348	95	2	
30		13.047	348	97	2	
35		15.647	350	98	2	
40		17.512	347	99	2	
45		18.502	350	101	2	
50		19.153	349	102	2	
55		20.053	348	102	2	
60		22.457	348	102	2	
Total			4175	1162		
Average			348.8	99.3		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-1 PotCoke Blend

Client	B379 Rivers
Plant	D.B. Wilson
Location	Inlet #3
Date	7/25/11
Project No.	364E
Meter Reader	126



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	85
Start Time	7:30
Stop Time	9:00

Page 2 of 2

Sample Train A 94416

Trap ID	—	Meter ID	M-26	Yd	
Pre Leak Check		ipm @	22	(in. Hg)	
Post Leak Check		ipm @	20	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.79M	↓	24.577	349	102	9	
70		↓	25.647	350	103	9	
75		↓	26.800	351	103	9	
80		↓	28.235	353	104	9	
85		↓	29.745	351	104	10	
90		↓	31.219	351	104	10	
Total				2105	620		
Average							

Sample Train B Spiked 94307

Trap ID	—	Meter ID	M-26	Yd	
Pre Leak Check		ipm @	17	(in. Hg)	
Post Leak Check		ipm @	15	(in. Hg)	

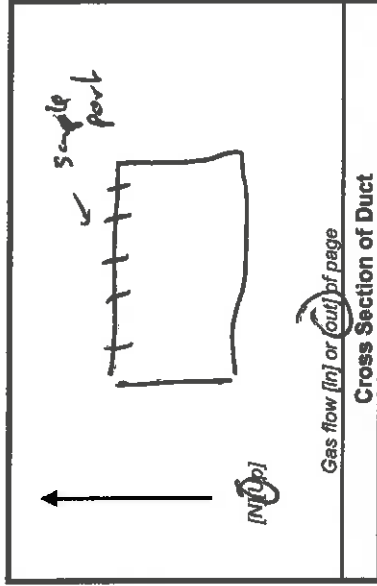
Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	.75LM	↓	24.471	349	103	5	
70		↓	26.384	350	104	5	
75		↓	30.984	351	104	5	
80		↓	33.051	353	105	5	
85		↓	34.059	351	105	5	
90		↓	35.135	351	105	5	
Total				2105	626		
Average							

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-2 Petroke Blend

Client	Big Rivers
Plant	D. B. Wilson
Location	Unit # 3 Inlet
Date	7/25/11
Project No.	3648
Meter Reader	RL



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	65
Start Time	10:49:33
Stop Time	11:03

Sample Train A 94445

Trap ID	<u>94360</u>	Meter ID	<u>M-26</u>	Yd	<u>9958</u>
Pre Leak Check	<u>.000</u>	lpm @		<u>24</u>	(in. Hg)
Post Leak Check	<u>.000</u>	lpm @		<u>20</u>	(in. Hg)

Sample Train B Spiked

Trap ID	<u>94360</u>	Meter ID	<u>M-26</u>	Yd	<u>9902</u>
Pre Leak Check	<u>.000</u>	lpm @		<u>22</u>	(in. Hg)
Post Leak Check	<u>.000</u>	lpm @		<u>20</u>	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	350M	3.741	346	97	7	
10		6.212	344	96	7	
15		8.632	348	96	7	
20		10.977	348	96	7	
25		13.384	347	97	7	
30		15.521	348	99	7	
35		17.699	348	100	7	
40		19.801	348	101	7	
45		21.802	347	102	7	
50		25.471	348	102	7	
55		28.838	349	104	8	
60		31.949	348	104	8	
Total			4169	1194		
Average			348.4	102.2		

47.026

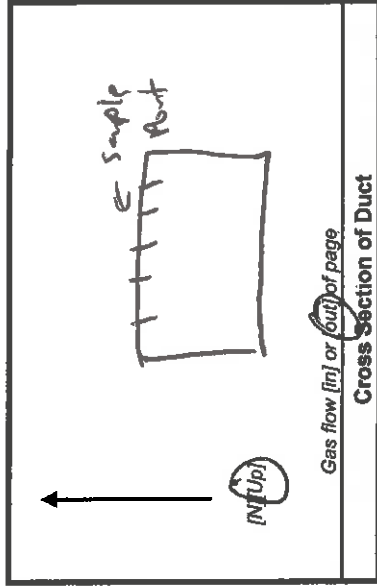
Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	350M	3.102	346	96	2	
10		4.073	344	95	2	
15		6.124	348	96	2	
20		8.545	348	97	2	
25		10.979	347	98	2	
30		13.399	348	99	2	
35		16.255	348	100	2	
40		19.182	348	101	3	
45		21.806	347	102	3	
50		24.377	348	102	3	
55		26.576	349	105	4	
60		28.527	348	105	4	
Total			4169	1196		
Average			348.4	102.7		

38.800

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-2 Petrocke Blend

Client	Big Rivers
Plant	D.B. Wilson
Location	Unit #3 Inlet
Date	7/25/11
Project No.	3642
Meter Reader	RLC



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp (°F)	85
Start Time	9:33
Stop Time	11:03

Sample Train A 94445

Trap ID	<u>---</u>	Meter ID	<u>M-26</u>	Yd	
Pre Leak Check		ipm @	<u>24</u>	(in. Hg)	
Post Leak Check		ipm @	<u>20</u>	(in. Hg)	

Sample Train B Spiked

Trap ID	<u>94360</u>	Meter ID	<u>M-26</u>	Yd	
Pre Leak Check		ipm @	<u>22</u>	(in. Hg)	
Post Leak Check		ipm @	<u>20</u>	(in. Hg)	

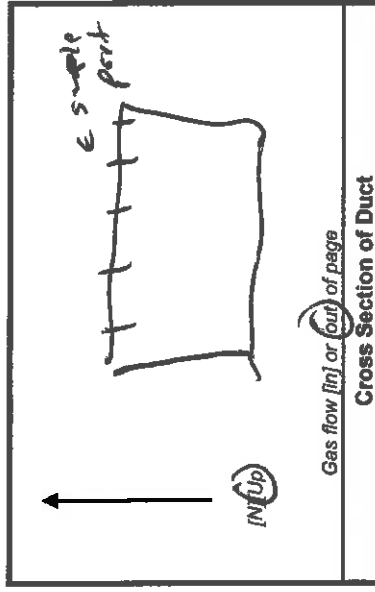
Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	354PM	35.027	350	106	9	
70		37.684	350	106	10	
75		39.839	351	107	10	
80		40.850	350	108	10	
85		41.584	351	109	10	
90	↓	42.046	351	109	10	
Total						2103
Average						645

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	354PM	30426	350	107	3	
70		31.958	350	108	3	
75		33.986	351	109	5	
80		35.774	350	110	5	
85		37.305	351	110	10-105	
90	↓	38.800	351	110	10-105	
Total						2103
Average						654

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 Pet coke blend

Client	Big Rivers
Plant	D.B. W. 1807
Location	Unit #3 Inlet
Date	7/25/11
Project No.	3642
Meter Reader	RC



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	ES
Start Time	11:30
Stop Time	12:00

Sample Train A

Trap ID	94455	Meter ID	M-26	Yd	.9958
Pre Leak Check	1000	ipm @	24		(in. Hg)
Post Leak Check		ipm @			(in. Hg)

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	35LPM	3.457	351	101	6	
10		5.572	352	102	6	
15		7.909	353	102	6	
20		9.924	354	103	6	
25		11.855	353	103	6	
30		13.267	354	104	6	(104) ^{pk}
35		14.883	353	103	6	
40		15.892	355	107	6	
45		18.070	355	108	8	
50		20.011	356	109	9	
55		21.743	354	109	9	
60		23.415	355	110	9	
Total			4245	1263		
Average			354	107		

Sample Train B *Spiked*

Trap ID	94313	Meter ID	M-26	Yd	.9902
Pre Leak Check	1000	ipm @	21		(in. Hg)
Post Leak Check		ipm @			(in. Hg)

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	35 LPM	2.986	351	101	2	
10		5.541	352	102	2	
15		8.105	353	102	2	
20		9.622	354	102	2	
25		10.998	353	104	2	
30		12.778	354	106	2	
35		14.995	353	106	2	
40		17.100	355	108	2	
45		18.081	355	109	2	
50		19.854	356	110	2	
55		21.733	354	110	2	
60		23.601	355	110	2	
Total			4245	1270		
Average			354			

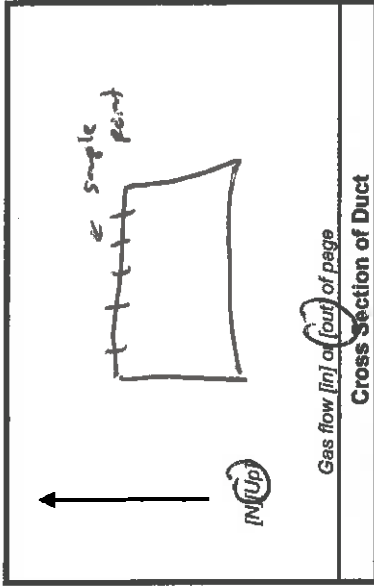
AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 Pet Coke Blend

Client	<u>Big Rivers</u>
Plant	<u>P. B. Wilson</u>
Location	<u>Inlet #3</u>
Date	<u>7/25/11</u>
Project No.	<u>3646</u>
Meter Reader	<u>RG</u>

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Barometric (in. Hg)	<u>29.48</u>
Static (inH ₂ O)	<u>-16.9</u>
Ambient Temp. (°F)	<u>65</u>
Start Time	<u>11:30</u>
Stop Time	<u>13:00</u>



Sample Train A 94455

Trap ID	<u>---</u>	Meter ID	<u>M-26</u>	Yd	<u>1958</u>
Pre Leak Check	<u>1300</u>	ipm @	<u>24</u>	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

Sample Train B SP: ked 94313

Trap ID	<u>---</u>	Meter ID	<u>M-26</u>	Yd	
Pre Leak Check	<u>000</u>	ipm @	<u>21</u>	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
65	<u>35LPM</u>	<u>24.877</u>	<u>355</u>	<u>110</u>	<u>10</u>	
70		<u>27.187</u>	<u>355</u>	<u>110</u>	<u>10</u>	
75		<u>29.683</u>	<u>354</u>	<u>110</u>	<u>10</u>	
80		<u>31.624</u>	<u>355</u>	<u>111</u>	<u>11</u>	
85		<u>33.518</u>	<u>354</u>	<u>111</u>	<u>11</u>	
90	<u>↓</u>	<u>35.320</u>	<u>354</u>	<u>111</u>	<u>11</u>	
Total			<u>2127</u>	<u>663</u>		
Average						

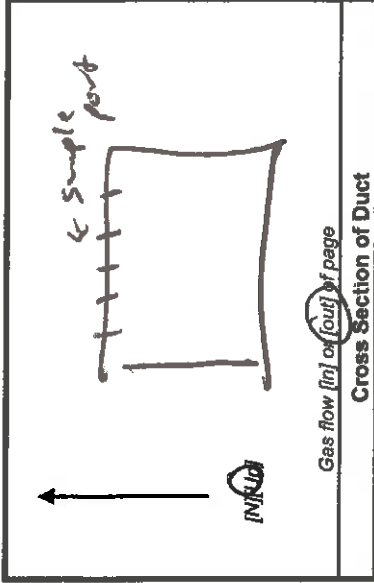
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
65	<u>35LPM</u>	<u>25.310</u>	<u>355</u>	<u>111</u>	<u>3</u>	
70		<u>27.328</u>	<u>355</u>	<u>111</u>	<u>3</u>	
75		<u>29.521</u>	<u>354</u>	<u>111</u>	<u>3</u>	
80		<u>31.856</u>	<u>355</u>	<u>111</u>	<u>4</u>	
85		<u>34.076</u>	<u>354</u>	<u>112</u>		
90	<u>↓</u>	<u>36.070</u>	<u>354</u>	<u>112</u>		
Total			<u>2127</u>	<u>668</u>		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-1 Petcoke Blend

Client	Big Rivers
Plant	D. Wilson
Location	Inlet #4
Date	7/25/11
Project No.	3011
Meter Reader	RB



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	85
Start Time	7:30
Stop Time	9:00

Sample Train A Tube # 94315

Trap ID	—	Meter ID	R19075	Yd	1.000
Pre Leak Check	.000	ipm @	23	(in. Hg)	
Post Leak Check	1000	ipm @	20	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	375LPM	3.147	323	76	5	
10		5.362	322	77	5	
15		7.426	323	77	5	
20		9.216	324	77	5	
25		10.904	323	77	5	
30		12.763	325	77	5	
35		14.426	326	78	5	
40		16.124	326	78	5	
45		17.821	324	78	5	
50		19.426	324	78	5	
55		22.987	324	78	5	
60		22.674	325	79	5	
Total			3889	930		
Average			3249	79.1		

Sample Train B SP. keel Tube # 94297

Trap ID	—	Meter ID	R19075	Yd	1.000
Pre Leak Check	.000	ipm @	20	(in. Hg)	
Post Leak Check	.000	ipm @	19	(in. Hg)	

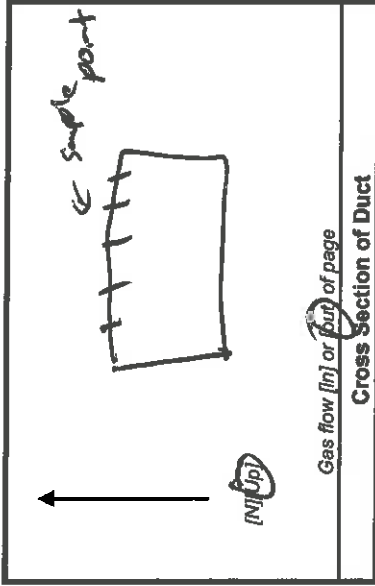
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	375LPM	3.712	323	77	2	
10		5.305	322	77	2	
15		7.271	323	78	2	
20		9.378	304	78	2	
25		11.433	323	78	2	
30		12.984	325	78	2	
35		14.839	326	78	2	
40		16.489	326	79	2	
45		18.037	324	79	2	
50		19.347	324	79	2	
55		20.911	224	79	2	
60		22.605	325	80	2	
Total			3889	940		
Average			3249	79.1		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-1 Petrocoke Blend

Client	Dig Rivers
Plant	D.B. Wilson
Location	Unit #4 Inlet
Date	7/25/11
Project No.	3642
Meter Reader	RG



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.4
Ambient Temp. (°F)	85
Start Time	7:30
Stop Time	9:00

Sample Train A 94315

Trap ID	---	Meter ID	R19075	Yd	1.000
Pre Leak Check	.000	lpm @	23	(in. Hg)	
Post Leak Check	.000	lpm @	23	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
5						
Elapsed Time						
65	7500	24.521	325	79	5	
70		26.148	326	79	5	
75		27.821	327	79	5	
80		29.422	329	80	9	
85		33.379	327	80	9	
90		37.806	326	80	9	
Total			1960	477		
Average						

Sample Train B spoiled 94297

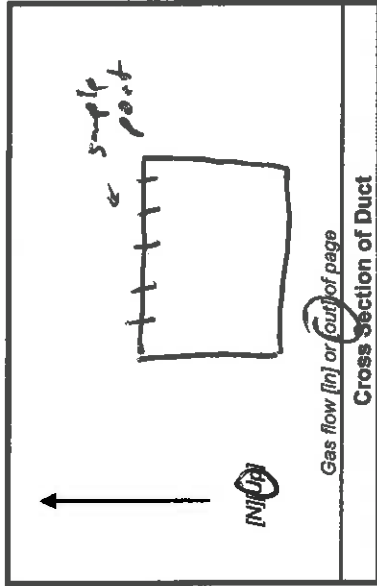
Trap ID	---	Meter ID	R19075	Yd	1.000
Pre Leak Check	.000	lpm @	22	(in. Hg)	
Post Leak Check	.000	lpm @	19	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (In Hg)	Notes
5						
Elapsed Time						
65	7500	24.372	325	80	2	
70		26.015	326	80	2	
75		27.475	327	80	2	
80		29.430	329	81	3	
85		33.894	327	81	5	
90		37.610	326	81	5	
Total			1960	483		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-2 Pet coke Blend

Client	Big Rivers
Plant	D. Wilson
Location	Inlet # 4
Date	7/25/11
Project No.	3642
Meter Reader	126



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	85
Start Time	9:33
Stop Time	11:03

Sample Train A Tube # 94433

Trap ID	---	Meter ID	R19075	Yd	1.000
Pre Leak Check	.200	ipm @	18		(in. Hg)
Post Leak Check	.250	ipm @	19		(in. Hg)

Sample Train B Spiked Tube # 94361

Trap ID	---	Meter ID	R19075	Yd	1.000
Pre Leak Check	.300	ipm @	20		(in. Hg)
Post Leak Check	.300	ipm @	19		(in. Hg)

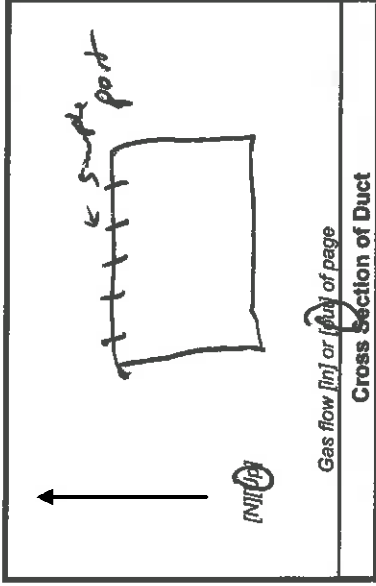
Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	750PM	2.814	324	80	7	
10		5.156	324	80	7	
15		7.102	324	80	7	
20		10.030	324	80	7	
25		12.351	324	80	7	
30		14.667	324	81	7	
35		16.813	324	81	9	
40		19.094	324	81	9	
45		21.582	325	81	9	
50		24.397	325	82	9	
55		27.005	326	82	9	
60		29.595	326	83	9	
Total		67.879	3894	971		
Average		35.287	325.2	82		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	750PM	2.946	324	81	2	
10		4.756	324	81	2	
15		6.854	324	81	2	
20		8.954	324	81	2	
25		11.010	324	81	2	
30		13.142	324	82	2	
35		15.867	324	82	2	
40		20.076	324	82	2	
45		24.076	325	83	2	
50		26.419	325	83	3	
55		28.169	326	83	2	
60		29.463	326	84	2	
Total		102.894	3894	984		
Average		40.278	325.2	84		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-2 pet coke blend

Client	Big Rivers
Plant	D.B. Wilson
Location	Unit #4 inlet
Date	7/25/11
Project No.	3642
Meter Reader	RC



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.9
Ambient Temp. (°F)	85
Start Time	9:33
Stop Time	11:03

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Sample Train A 94433

Trap ID	---	Meter ID	R19075	Yd	1000
Pre Leak Check	---	ipm @	18	(in. Hg)	
Post Leak Check	---	ipm @	19	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	354PM	32.068	326	83	10	
65	↓	34.364	326	84	10	(83) RC
70	↓	35.825	327	84	10	
75	↓	36.583	327	84	10	
80	↓	38.311	327	85	10	
85	↓	39.287	327	85	10	
90	↓					
Total						1960
Average						505

Sample Train B Spiked 94361

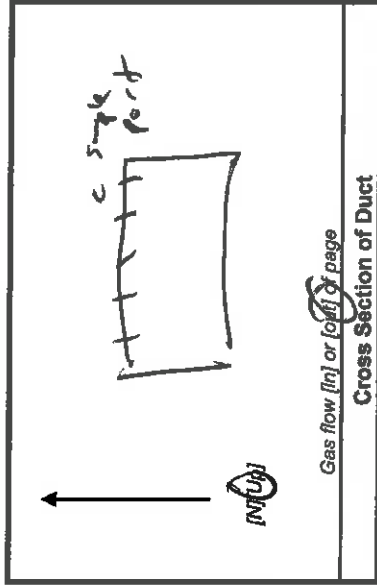
Trap ID	---	Meter ID	R19075	Yd	1000
Pre Leak Check	---	ipm @	20	(in. Hg)	
Post Leak Check	---	ipm @	19	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	354PM	30.769	326	84	2	
65	↓	32.309	326	85	2	
70	↓	34.245	327	86	2	
75	↓	36.355	327	86	2	
80	↓	38.347	327	86	2	
85	↓	40.278	327	86	2	
90	↓					
Total						1960
Average						513

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 pet coke blend

Client	Big Rivers
Plant	D.B. Wilson
Location	Inlet #4
Date	7/25/10
Project No.	3648
Meter Reader	RG



Barometric (in. Hg)	29.48
Static (in H ₂ O)	16.9
Ambient Temp. (°F)	83
Start Time	11:30
Stop Time	13:00

Sample Train A

Trap ID	94446	Meter ID	R19075	Yd	1.000
Pre Leak Check		ipm @	20		(in. Hg)
Post Leak Check		ipm @			(in. Hg)

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		3.218	326	84	7	
10		5.992	329	85	7	
15		8.011	330	85	7	
20		9.868	330	85	7	
25		11.787	330	85	7	
30		13.556	331	86	7	
35		15.294	332	86	7	
40		16.943	332	86	7	
45		18.595	332	86	7	
50		20.153	332	86	7	
55		21.756	331	87	7	
60		23.272	332	87	7	
Total			3963	1028		
Average			330.8	86.1		

Sample Train B Spiked

Trap ID	94376	Meter ID	R19075	Yd	1.000
Pre Leak Check		ipm @	21		(in. Hg)
Post Leak Check		ipm @			(in. Hg)

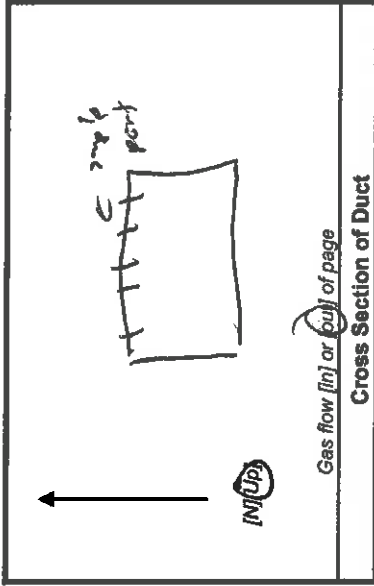
Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5		3.341	326	85	2	
10		6.103	329	86	2	
15		7.789	330	86	2	
20		9.971	330	86	2	
25		11.539	330	86	2	
30		12.988	331	87	2	
35		14.435	332	87	2	
40		16.198	332	87	2	
45		18.504	332	87	2	
50		20.808	332	88	2	
55		22.782	331	88	2	
60		24.679	332	88	2	
Total			3963	1041		
Average			330.8	87.2		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. R-3 Pet Coke Blend

Page 2 of 2

Client	<u>BB Rivers</u>
Plant	<u>D.B. Wilson</u>
Location	<u>Unit #4 Tank</u>
Date	<u>7/25/4</u>
Project No.	<u>364E</u>
Meter Reader	<u>RL</u>



Barometric (in. Hg)	<u>29.48</u>
Static (inH ₂ O)	<u>-16.9</u>
Ambient Temp. (°F)	<u>85</u>
Start Time	<u>11:30</u>
Stop Time	<u>13:00</u>

Sample Train A

Sample Train B spiked

Trap ID	<u>94446</u>	Meter ID	<u>R19075</u>	Yd	<u>1.000</u>
Pre Leak Check	<u>200</u>	ipm @	<u>21</u>	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

Trap ID	<u>94376</u>	Meter ID	<u>R19075</u>	Yd	<u>1.000</u>
Pre Leak Check	<u>200</u>	ipm @	<u>20</u>	(in. Hg)	
Post Leak Check		ipm @		(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
65		<u>24.825</u>	<u>331</u>	<u>87</u>	<u>7</u>	<u>⊕</u>
70		<u>26.710</u>	<u>332</u>	<u>87</u>	<u>7</u>	
75		<u>29.867</u>	<u>331</u>	<u>87</u>	<u>7</u>	
80		<u>33.311</u>	<u>332</u>	<u>87</u>	<u>8</u>	
85		<u>36.595</u>	<u>331</u>	<u>87</u>	<u>8</u>	
90		<u>39.846</u>	<u>331</u>	<u>88</u>	<u>8</u>	
Total			<u>1988</u>	<u>521</u>		
Average						

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
65		<u>26.429</u>	<u>331</u>	<u>88</u>	<u>2</u>	
70		<u>28.641</u>	<u>332</u>	<u>88</u>	<u>2</u>	
75		<u>31.289</u>	<u>331</u>	<u>88</u>	<u>2</u>	
80		<u>33.574</u>	<u>332</u>	<u>88</u>	<u>2</u>	
85		<u>35.892</u>	<u>331</u>	<u>88</u>	<u>2</u>	
90		<u>38.612</u>	<u>331</u>	<u>88</u>	<u>2</u>	
Total			<u>1988</u>	<u>528</u>		
Average						