Field Data

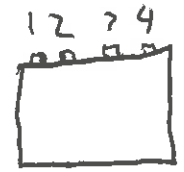
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 4 METHOD NO. 5/202 Page 1 of 3

Client	BIG RIVERS						Barometric (inHg)	29.56	Water [ml] [g]	
Plant	OWENSBORO, KY						Ambient Temp (°F)	100°F	Silica gel (g)	
Location	ESP #1						Static (inH_2O)	-16.50	Total Vlc	
Date	07/19/11	Project No.	3648				Probe ID	AES-12-3	Liner Type	TFE
Meter Operator	JD						Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator							Filter ID	12195		
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84 ✓		Train ID	IR-A	Train Type	IMP
ΔH@	1.843	Kf	2.64	Leak check	✓		Duct Dim (in)	162.0	Port Lngth (in)	
Pre Leak Check	0.000	(cfm) [lpm] @	19	(inHg)						
Post Leak Check	0.000	(cfm) [lpm] @	12	(inHg)			Start Time	07:03	Stop Time	08:39



Cross Section of Duct

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (m³) [l] 236.00	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	238.10	323	319	320	48	96	90	7	67		
2	6:30	.50	1.3	240.15	324	320	321	48	99	91	7	67		
3	9:45	.63	1.7	242.80	321	320	320	49	100	92	8	67		
4	13:00	.64	1.7	245.05	318	319	319	49	104	94	8	68		
5	16:15	.61	1.6	247.24	320	320	319	49	106	95	8	68		
6	19:30	.53	1.4	249.36	321	320	320	50	108	96	8	67		
7	22:45	.47	1.2	251.29	320	320	321	51	110	97	7	68		STOP VOL-251.54
2-1	26:00	.53	1.4	253.57	323	320	319	51	111	101	7	68		RESTART VOL-251.81
2	29:15	.60	1.6	255.77	324	320	320	52	112	102	8	68		-.2700
3	32:30	.70	1.9	258.19	325	320	319	52	114	103	10	69		
4	35:45	.72	1.9	260.71	327	321	320	53	116	104	10	69		
5	39:00	.70	1.9	263.10	327	320	319	52	117	105	10	69		
Total		20.8311	41.100	61.35	8665.27	8888			3260	2976				
Average		.7440	1.4679		321				111.36					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

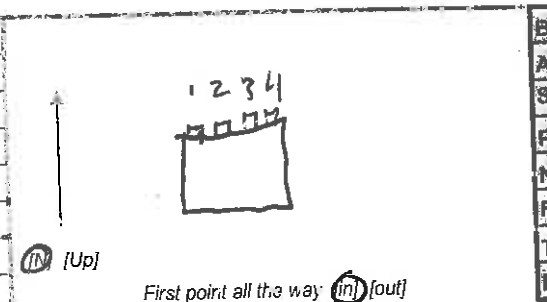
General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 4 METHOD NO. 5/202

Client	BIG RIVER				
Plant	OWENSBORO, KY				
Location	ESP # 1				
Date	07/19/11	Project No.	3648		
Meter Operator	JD				
Probe Operator					

Meter ID	M-15	Yd	1.0159	Pitot Cp	.84	
ΔH@	1.843	Kf	2.64	Leak check	✓	
Pre Leak Check	0.000	cfm [lpm] @	19	(inHg)		
Post Leak Check	0.000	cfm [lpm] @	12	(inHg)		



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100°F	Silica gel (g)	
Static (inH2O)	-16.50	Total Vlc	
Probe ID	AE5-12-3	Liner Type	TFE
Nozzle ID		Nozzle Dia (in)	
Filter ID	1295		
Train ID	FB-A	Train Type	IMD
Duct Dim. (in)	162.0	Port Length (in)	
Start Time	07:03	Stop Time	08:39

Traverse Point	Min/Point 3.15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft³) (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
				236.06		320	320							
6	42:15	.57	1.5	265.30	323	320	320	48	117	105	7	68		
7	45:30	.50	1.3	267.32	324	319	320	48	115	104	7	67		STOP VOL - 268.00
3-1	48:45	.50	1.3	270.80	325	320	320	48	119	107	7	69		RESTART VOL - 268.90
2	52:00	.55	1.5	272.84	326	321	320	47	120	109	8	69		-.90
3	55:15	.57	1.5	275.10	324	321	321	47	121	111	8	68		
4	58:30	.61	1.6	277.37	323	320	320	48	122	111	8	69		
5	61:45	.60	1.6	279.58	324	320	319	49	123	112	8	69		
6	65:00	.57	1.5	281.80	323	319	320	50	124	113	8	70		
7	68:15	.57	1.4	283.97	321	320	320	51	125	114	8	69		
4-1	71:30	.43	1.1	286.32	318	321	320	52	126	114	6	70		STOP VOL - 284.08
2	74:45	.47	1.2	288.26	319	320	321	54	123	116	7	70		RESTART VOL - 284.14
3	78:00	.55	1.5	290.43	320	320	320	55	124	117	8	71		-.06
Total		20.824												
Average		.7440												

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 4 METHOD NO. 5/202 Page 3 of 3

Client	BIG RIVERS						
Plant	OWENSBORO, KY						
Location	ESP#1						
Date	07/19/11	Project No.	3648				
Meter Operator	JD						
Probe Operator							
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84		
ΔH@	1.843	Kf	2.64	Leak check	✓		
Pre Leak Check	.060	[cfm] [lpm] @	19	(inHg)			
Post Leak Check	.000	[cfm] [lpm] @	12	(inHg)			

1 2 3 4

(IN) (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)	100°F	Silica gel (g)	
Static (inH2O)	-16.50	Total Vlc	
Probe ID	AE5-12-3	Liner Type	TFE
Nozzle ID		Nozzle Dia (in)	
Filter ID	12195		
Train ID	TB-A	Train Type	IMP
Duct Dim. (in)	162.0	Port Length (in)	
Start Time	07:03	Stop Time	08:39

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft³) [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
				236.06		320	320							
4	81:15	.58	1.5	292.60	318	320	320	57	125	117	8	71		
5	84:30	.51	1.4	294.70	311	319	321	59	126	117	8	72		
6	87:45	.50	1.3	296.73	309	320	320	59	127	118	7	72		
7	91:00	.43	1.1	298.64	307	320	320	60	127	119	6	72		STOP VOL- 298.94
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

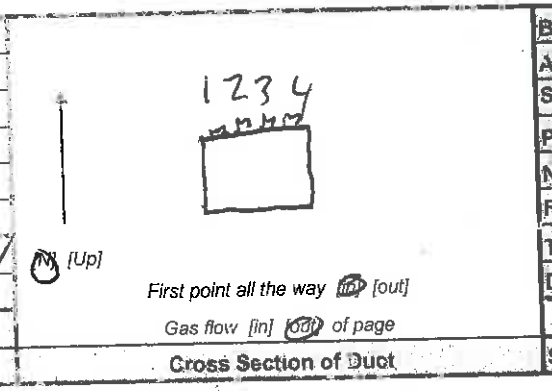
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 5 METHOD NO. 5/202 Page 1 of 3

Client	BG RIVERS				
Plant	OWENSBORO, KY				
Location	ESP #1				
Date	07/19/11	Project No.	3648		
Meter Operator	JD				
Probe Operator					
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	0.000	[cfm] [lpm] @	18	(inHg)	
Post Leak Check	0.000	[cfm] [lpm] @	11	(inHg)	



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100°F	Silica gel (g)	
Static (inH2O)	-16.50	Total Vic	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID	260	Nozzle Dia (in)	.250
Filter ID	12163	—	—
Train ID	IB-B	Train Type	IMP
Duct Dim. (in)	162.00x16	Port Lngth (in)	
Start Time	10:03	Stop Time	11:52

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume initial (ft³) (l) 299.43	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-1	3:15	.47	1.2	301.50	300	320	319	48	113	112	6	67		
2	6:30	.49	1.3	303.58	300	320	321	48	114	112	6	68		
3	9:45	.57	1.5	305.66	298	319	321	49	117	112	7	67		
4	13:00	.50	1.3	307.67	300	320	320	49	117	112	6	67		
5	16:15	.55	1.5	309.80	308	321	319	50	118	112	7	68		
6	19:30	.49	1.3	311.89	311	320	320	51	119	111	7	69		
7	22:45	.43	1.1	313.70	319	319	321	52	119	111	6	68		STOP VOL-314.51
3-1	26:00	.50	1.3	315.81	321	320	320	53	119	111	7	69		RES. VOL-315.06
2	29:15	.55	1.5	319.20	324	320	321	54	120	111	7	69		-.55
3	32:30	.58	1.5	321.95	326	320	320	55	121	112	7	70		
4	35:45	.60	1.6	323.58	327	321	320	56	121	112	8	70		
5	39:00	.57	1.5	325.32	326	320	321	56	121	112	8	71		
Total	(91)	20.9681	41.70	(61.75)	8099				3375	3147				
Average		(.7467)	1.4893		(321.39)				(116.46)					

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

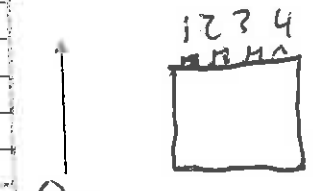
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 5 METHOD NO. 5/202 Page 2 of 3

Client	BIG RIVERS					Barometric (inHg)	29.56	Water (ml) [g]	
Plant	OWENSBORO, KY					Ambient Temp (°F)	100° F	Silica gel (g)	
Location	ESP#1					Static (inH_2O)	-16.50	Total Vlc	
Date	07/19/11	Project No.	3648			Probe ID	AES-12-3	Liner Type	TFE
Meter Operator	JD					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID	12163		
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84	Train ID	IB-B	Train Type	IMP
ΔH@	1.843	Kf	2.64	Leak check	✓	Duct Dim. (in)	162.0	Port Lngth (in)	
Pre Leak Check	0.000	[cfm] [lpm] @	18	(inHg)					
Post Leak Check	0.000	[cfm] [lpm] @	11	(inHg)		Start Time	10:03	Stop Time	11:52



Cross Section of Duct

Traverse Point	Min/Point 5:15 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume initial [ft³] 299.43	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
6	42:15	.55	1.5	327.97	325	320	320	57	122	112	8	70		
7	45:30	.57	1.4	330.04	324	319	320	58	122	112	7	71		STOP VOL-330.74
7-1	48:45	.53	1.4	333.80	326	320	321	58	122	112	8	71		RESTART VOL-331.71
2	52:00	.60	1.6	335.40	327	320	320	59	122	112	8	71		-.97
3	55:15	.71	1.9	337.87	326	320	319	60	122	112	10	72		
4	58:30	.70	1.9	339.99	328	320	320	60	122	113	10	71		
5	61:45	.68	1.8	342.75	327	320	321	58	123	113	9	72		
6	65:00	.60	1.6	345.02	326	321	320	56	123	113	8	72		
7	68:15	.51	1.4	347.16	329	320	321	55	122	113	7	73		STOP VOL 347.50
1-1	71:30	.47	1.2	350.03	330	320	320	54	122	113	6	72		RESTART-VOL-348.08
2	74:45	.51	1.4	352.08	331	319	319	54	121	113	7	73		-.58
3	78:00	.67	1.8	354.47	330	319	320	55	122	113	9	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. 5 METHOD NO. 5/202

Page 3 of 3

Client	BIG RIVERS				
Plant	OWENSBORO, KY				
Location	ESP # 1				
Date	07/19/11	Project No.	364B		
Meter Operator	JD				
Probe Operator					
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	0.000	[cfm] [lpm] @	18	(inHg)	
Post Leak Check	0.000	[cfm] [lpm] @	11	(inHg)	

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100°F	Silica gel (g)	
Static (inH2O)	-16.50	Total Vlc	
Probe ID	AC5-12-3	Liner Type	TFE
Nozzle ID		Nozzle Dia (in)	
Filter ID	12163	—	—
Train ID	IB-B	Train Type	IMP
Duct Dim. (in)	162.0	Port Length (in)	
Start Time	10:03	Stop Time	11:52

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft3) [l] 299.43	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4	81:15	.66	1.7	356.81	329	320	320	56	122	114	9	74		
5	84:30	.63	1.7	359.15	328	320	320	57	123	114	9	74		
6	87:45	.51	1.4	361.27	327	320	321	58	123	114	8	75		
7	91:00	.48	1.3	363.28	326	319	320	59	123	114	7	75		STOP VOL - 363.74
Total														
Average														

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

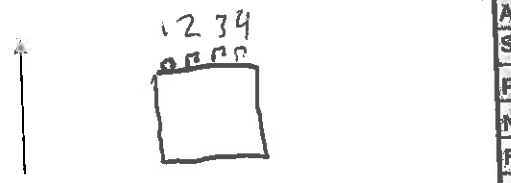
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 6 METHOD NO. 5/202

Client	BIG RIVERS				
Plant	OWENSBORO, KY				
Location	ESP# 2				
Date	07/19/11	Project No.	3648		
Meter Operator	JD				
Probe Operator					
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84 ✓
ΔH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	0.000	cfm [lpm] @	19	(inHg)	
Post Leak Check	Over	cfm [lpm] @	13	(inHg)	



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100°F	Silica gel (g)	
Static (inH2O)	-16.50	Total Vlc	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID	.25"	Nozzle Dia (in)	
Filter ID	12E+	—	—
Train ID	IB-A	Train Type	IMP
Duct Dim (in)	162.0"	Port Lngth (in)	
Start Time	13:01	Stop Time	14:45

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] 364.10	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-1	3:15	.46	1.2	366.23	324	320	320	47	120	119	6	68		
2	6:30	.47	1.2	368.21	326	321	321	48	121	120	6	68		
3	9:45	.55	1.5	370.24	328	320	320	49	120	117	7	69		
4	13:00	.50	1.3	372.33	328	319	320	50	121	118	7	68		
5	16:15	.54	1.5	374.54	328	320	321	51	120	115	7	69		
6	19:30	.51	1.4	376.47	327	320	320	52	119	115	7	69		
7	22:45	.43	1.1	378.35	326	321	321	53	118	114	6	69		STOP VOL - 378.57
3-1	26:00	.50	1.3	379.90	327	320	320	54	117	114	9	70		RESTART VOL - 378.62
2	29:15	.55	1.5	381.98	328	321	321	55	117	114	7	69		-.05
3	32:30	.57	1.5	384.04	327	320	320	56	116	114	7	70		
4	35:45	.61	1.6	386.26	327	320	320	57	118	114	8	70		
5	39:00	.60	1.6	388.34	326	319	320	58	120	114	8	70		
Total	91	20.7778	40.80	60.27	9127.9				3307	3290				
Average		.742	1.4571		325.96					115.66				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 6 METHOD NO. 5/202

Page 2 of 3

Client	BIG RIVERS				
Plant	OWENSBORO, KY				
Location	ESP#1				
Date	07/19/11	Project No.	3648		
Meter Operator	JD				
Probe Operator					
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.64	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	19	(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

1 2 3 4

[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)	100°F	Silica gel (g)	
Static (inH_2O)	-16.50	Total Vic	
Probe ID	AE5-12-3	Liner Type	TFE
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID	TB-A	Train Type	IMP
Duct Dim. (in)	162.0"	Port Length (in)	
Start Time		Stop Time	

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume initial [f] [l] 364.10	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
6	42:15	.57	1.5	390.41	326	320	320	58	120	114	7	70	
7	45:30	.53	1.4	392.48	326	321	321	56	120	114	7	71	STOP VOL-392.51
7-1	48:45	.53	1.4	394.92	327	320	320	54	120	114	7	71	RESTART VOL-392.77
2	52:00	.60	1.6	398.30	327	321	321	53	120	114	8	71	-.26
3	55:15	.70	1.9	401.14	325	320	320	52	119	113	10	72	
4	58:30	.69	1.8	403.41	324	319	320	52	119	113	10	72	
5	61:45	.67	1.8	405.83	325	320	320	53	118	112	10	72	
6	65:00	.60	1.6	408.24	325	320	321	54	117	112	9	73	
7	68:15	.50	1.3	410.27	326	319	320	54	117	112	8	74	STOP VOL-410.38
7-1	71:30	.47	1.2	412.75	325	320	320	55	116	111	7	73	RESTART VOL-410.99
2	74:45	.50	1.3	414.57	324	321	320	56	116	110	8	74	-.61
3	78:00	.64	1.7	416.90	325	320	320	57	116	110	9	74	
Total													
Average													

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

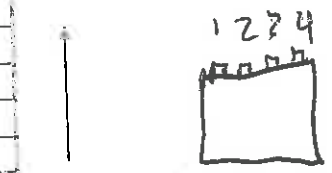
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: PARTICULATE

RUN NO. 6 METHOD NO. 5/202 Page ___ of ___

Client	BIG RIVERS						
Plant	OWENSBORO, KY						
Location	ESP #1						
Date	07/19/11	Project No.	13648				
Meter Operator	JD						
Probe Operator							
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84		
ΔH@	1.843	Kf	2.64	Leak check	✓		
Pre Leak Check	0.006	(cfm) [lpm] @	19	(inHg)			
Post Leak Check		(cfm) [lpm] @		(inHg)			



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100°F	Silica gel (g)	
Static (inH_2O)	-16.56	Total Vlc	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID	IR-A	Train Type	IMP
Duct Dim. (in)	162.0"	Port Lngth (in)	
Start Time	13:07	Stop Time	

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume initial (dcf) [l] 364.10	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4	81:15	.61	1.6	419.14	326	321	320	57	116	108	9	74		
5	84:30	.58	1.5	421.36	325	320	320	58	116	109	8	74		
6	87:45	.50	1.3	423.36	324	319	321	59	115	108	7	74		
7	91:00	.47	1.2	425.24	325	320	320	60	115	108	7	75		STOP VOL- 425.43
Total														
Average														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3645

Page ___ of ___

Client	Bicrians
Plant	DO Wilson
Location	ESP # 1
Date	2/19/11
Operator	DC

Run No.	4				
Method No.	SB/202	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	590.1	700.0		
Impinger No. 2	DI	692.3	670.0		
Impinger No. 3	Empty	619.0	616.0		
Impinger No. 4	Silica	850.1	881.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	SB/202	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	609.7	~~625.0~~		723.0
Impinger No. 2	DI	605.8	~~628.0~~		607.0
Impinger No. 3	Empty	556.9	559.0		
Impinger No. 4	Silica	908.3	926.5		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	SB02	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	530.5	664.5		
Impinger No. 2	DI	723.0	717.0		
Impinger No. 3	Empty	599.3	605.5		
Impinger No. 4	Silica	880.4	902.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

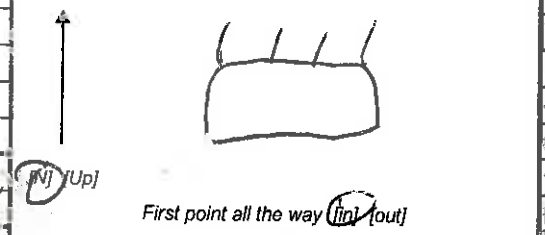
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 4 METHOD NO. 26 Page 1 of 1

Client	Big Rivers Energy - Wilson Station						
Plant	Owensboro, KY						
Location	ESP 1 Exhaust						
Date	7-20-11	Project No.	3648				
Meter Operator	NL						
Probe Operator	JD						
Meter ID	M-20	Yd	.9152	Pitot Cp	.84		
ΔH@	1.765	Kf	~~2.61~~ NA	Leak check	✓		
Pre Leak Check	0.00	[cfm] [lpm] @	18	(inHg)			
Post Leak Check	0.00	[cfm] [lpm] @	18	(inHg)			



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AE 5-6-3	Liner Type	glass
Nozzle ID	NA	Nozzle Dia (in)	NA
Filter ID	NA	-	-
Train ID	IB IB	Train Type	Imp
Duct Dim. (in)	13'6" x 13'0"	Port Lngth (in)	~13"
Start Time	8:40	Stop Time	10:40

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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
				613.05		250	250							
Single pt	10	NA	1.8	620.52	298	248	248	38	100	99	8	NA		
	20			627.96	300	250	251	41	105	99	8			
	30			635.48	301	252	250	44	106	100	9			
	40			643.07	318	249	251	46	107	102	8			
	50			650.39	320	250	250	48	109	103	8			
	60			657.86	321	252	250	44	111	103	8			
	70			665.34	320	252	250	50	111	104	8			
	80			672.82	320	253	250	50	113	105	8			
	90			680.41	320	251	250	50	115	107	8			
	100			687.94	321	254	250	51	116	107	8			
	110			695.35	320	251	249	50	115	107	8			
	120			702.91	321	250	250	50	115	108	8			
Total	120			89.86	3780				1322	1244				
Average			1.8		315.0				110.92					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 5 METHOD NO. 26 Page 1 of 1

Client	Big Rivers Energy - Wilson Station						
Plant	Owensboro KY						
Location	ESP Exhaust						
Date	7-20-11	Project No.	3646				
Meter Operator	ML						
Probe Operator	JD						
Meter ID	M-20	Yd	.9952	Pitot Cp	.84		
ΔH@	1.785	Kf	NA	Leak check	✓		
Pre Leak Check	0.00	[cfm]	[lpm] @	15	(inHg)		
Post Leak Check	0.00	[cfm]	[lpm] @	13	(inHg)		

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AE S-6-3	Liner Type	glass
Nozzle ID	NA	Nozzle Dia (in)	NA
Filter ID	NA	"	"
Train ID		Train Type	Imp
Duct Dim. (in)	136x136	Port Lngth (in)	43.1
Start Time	12:05	Stop Time	14:05

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (dcf) [l] 704.49	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
Single Pt	10	.48	1.8	712.05	330	251	250	55	106	105	6	NA		
	20	N/A		719.103	330	250	249	55	108	107	6			
	30			726.20	331	250	250	55	110	107	6			
	40			733.43	331	249	250	56	111	107	6			
	50			742.07	331	249	251	56	112	107	6			
	60			749.06	332	249	251	57	112	107	6			
	70			757.18	332	249	251	58	112	107	6			
	80			764.70	332	250	251	59	113	107	6			
	90			772.22	331	250	251	59	113	108	6			
	100			779.74	331	250	250	60	114	108	6			
	110			787.62	333	251	250	61	114	108	6			779.74 = Gas Sample
	120	✓	✓	795.28	332	250	250	61	114	108	6			
Total				90.79	3320.0				1353	1286				
Average			1.8		331.33				109.375					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 6 **METHOD NO.** 26 **Page** 1 **of** 1

Client	Big Rivers Energy - Wilson Station						
Plant	Owensboro, KY						
Location	ESP 1 Exhaust						
Date	7-20-21	Project No.	3648				
Meter Operator	ML						
Probe Operator	JD						
Meter ID	M-20	Yd	.9952	Pitot Cp	.84		
ΔH@	1.785	Kf	NA	Leak check	✓		
Pre Leak Check	0.000	[cfm] [lpm] @	18	(inHg)			
Post Leak Check	0.000	[cfm] [lpm] @	19	(inHg)			

(IN) (Up)

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AE S-C-3	Liner Type	glass
Nozzle ID	NA	Nozzle Dia (in)	NA
Filter ID	NA	–	–
Train ID	IMP 16	Train Type	imp
Duct Dim. (in)	13'6"D x 6'	Port Length (in)	45"
		Start Time	15:20
		Stop Time	17:20

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
				795.94										
Single Pt	10	N/A	1.8	803.46	325	248	249	50	110	108	7	NA		
	20			810.98	326	248	249	50	110	108	7			
	30			818.44	328	248	248	57	111	108	7			
	40			825.98	330	249	248	57	111	108	7			
	50			833.56	331	249	247	57	111	109	7			
	60			841.12	332	249	249	58	112	110	7			
	70			848.64	333	250	250	59	112	110	7			
	80			856.00	333	250	251	60	112	110	7			
	90			863.58	331	250	251	60	112	110	7			
	100			871.43	330	251	250	61	113	111	7			
	110			879.05	330	251	251	61	113	111	7			
	120			886.09	329	251	250	62	113	111	7			
Total			1.8	90.15	3958				1340	1314				
Average					329.83				111.6667	110.5833				

Circle correct bracketed [ ] units

Probe Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3XC

Page | of

Client	BL Rivers
Plant	DB Wilson
Location	ESP 1
Date	7/20
Operator	BZ

Run No. 4

Method No. 2C

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	637.5	763.0		-50
Impinger No. 2	H_2SO_4	659.3	705.1		
Impinger No. 3	Empty	578.5	593.1		
Impinger No. 4	Silica	934.7	969.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 5

Method No. 2C

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	593	996	703.5	-50
Impinger No. 2	H_2SO_4	733	806	790.0	
Impinger No. 3	Empty	598	~~806~~ 619.1		
Impinger No. 4	Silica	823	856.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 6

Method No. 2C

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1		639.6	788		-50
Impinger No. 2		649.4	676		
Impinger No. 3		577.3	590		
Impinger No. 4		963.3	994		
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. 4 METHOD NO. 29 Page 1 of 3

Client	BIG RIVERS						
Plant	OWENSBORO, KY						
Location	ESP#7						
Date	07/20/11	Project No.	3648				
Meter Operator	JD						
Probe Operator	ML						
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84		
ΔH@	1.843	Kf	~~2.64~~	Leak check	✓		
Pre Leak Check	0.000	~~cfm~~ [lpm] @	18	(inHg)			
Post Leak Check	0.000	~~cfm~~ [lpm] @	18	(inHg)			

1 2 3 4

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH2O)	-16.50	Total Vlc	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID	250	Nozzle Dia (in)	.250
Filter ID	NA	—	—
Train ID	IB-	Train Type	FIMP
Duct Dim. (in)	~~162~~ 13.5 x 132	Port Length (in)	43"
		Start Time	8:46
		Stop Time	10:34

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
				426.81		250	250							JD
4-1	4:30	.46	1.3	429.20	294	250	250	48	106	106	7	N/A		KF = 2.72
2	9:00	.48	1.3	431.98	298	249	249	48	107	106	7			
3	13:30	.55	1.5	434.98	300	249	250	49	109	106	8			
4	18:00	.50	1.4	437.92	298	250	251	49	106	101	8			
5	22:30	.49	1.3	440.73	315	250	250	50	114	106	7			
6	27:00	.48	1.3	443.57	320	250	251	52	116	107	7			
7	31:30	.43	1.2	446.23	318	249	250	52	117	108	8 (7)			
3-1	36:00	.50	1.4	450.41	312	250	250	50	120	110	8			STOP VOL: 446.89
2	40:30	.56	1.5	453.43	312	250	250	48	121	114	8			RESTART VOL: 447.60
3	45:00	.59	1.6	456.56	312	249	249	47	123	112	9			-.71
4	49:30	.62	1.7	459.81	325	250	250	47	124	108	10			
5	54:00	.60	1.6	462.96	332	249	250	48	125	113	9			
Total	1:30	~~20.938~~	40.200	83.27	9018				3305	3078				
Average		.7247	1.4357		322.07				113.98					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

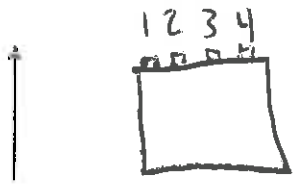
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 4 METHOD NO. 29 Page 2 of 3

Client	BIG RIVERS						Barometric (inHg)	29.50	Water (ml) [g]	
Plant	OWENSBORO, KY						Ambient Temp (°F)	95	Silica gel (g)	
Location	ESP #1						Static (inH_2O)	-16.50	Total Vlc	
Date	07/20/11	Project No.	3648				Probe ID	AES-12-3	Liner Type	TFE
Meter Operator	JD						Nozzle ID		Nozzle Dia (in)	
Probe Operator	ML						Filter ID	NA		
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84		Train ID	IB-	Train Type	IMP
ΔH@	1.843	Kf	~~2.64~~ 2.72	Leak check	✓		Duct Dim. (in)	162.0"	Port Lngth (in)	
Pre Leak Check	0.000	cfm [lpm] @	15	(inHg)						
Post Leak Check		cfm [lpm] @		(inHg)			Start Time	8:40	Stop Time	



Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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 JD
				476.81		250	250							
6	58:30	.59	1.6	466.19	330	250	250	48	121	114	9	N/A		KF = 2.72
7	63:00	.50	1.4	469.07	334	250	249	49	122	113	8			STOP VOL: 469.24
7-1	67:30	.50	1.4	473.37	320	251	250	50	121	112	8			RESTART VOL: 469.97
2	72:00	.60	1.6	476.56	323	250	251	51	121	112	9			-.73
3	76:30	.52	1.4	479.41	321	249	252	52	120	111	8			
4	81:00	.62	1.7	482.58	329	250	250	53	119	111	10			
5	85:30	.64	1.7	485.74	331	250	249	53	120	111	10			
6	90:00	.56	1.5	488.71	332	250	249	54	120	111	8			
7	94:30	.48	1.3	491.54	332	249	249	55	119	110	7			STOP VOL: 491.74
7-1	99:00	.43	1.2	494.80	332	250	250	56	118	109	7			RESTART VOL: 492.12
2	103:30	.46	1.3	497.54	332	251	250	57	119	110	7			-.38
3	108:00	.60	1.6	500.56	333	250	250	58	120	111	10			
Total														
Average														

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

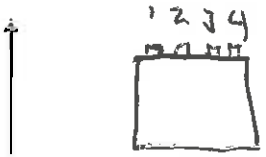
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 4 METHOD NO. 29 Page 3 of 3

Client	BIG RIVERS					Barometric (inHg)	29.50	Water (ml) [g]	
Plant	OWENSBORO, KY					Ambient Temp (°F)		Silica gel (g)	
Location	ESP#1					Static (inH_2O)	-16.50	Total Vlc	
Date	07/20/11	Project No.	3648			Probe ID	AES-12-3	Liner Type	TFE
Meter Operator	JD					Nozzle ID		Nozzle Dia (in)	
Probe Operator	ML					Filter ID			
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84 ✓	Train ID	IB--	Train Type	IMP
ΔH@	1.843	Kf	~~2.64~~ 2.72	Leak check	✓	Duct Dim. (in)	162.0"	Port Lngth (in)	
Pre Leak Check	0.050	cfm [lpm] @	18	(inHg)					
Post Leak Check		cfm [lpm] @		(inHg)		Start Time	8:40	Stop Time	



Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (ft³) [l] 426.81	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes JD
4	112:30	.56	1.5	503.61	333	250	250	59	120	111	9	N/A		KF = 2.72
5	117:00	.52	1.4	506.56	334	250	250	59	120	112	8			
6	121:30	.50	1.4	509.30	333	249	251	60	119	111	8			
7	126:00	.40	1.1	511.90	333	250	250	60	118	112	6			
Total														
Average														

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

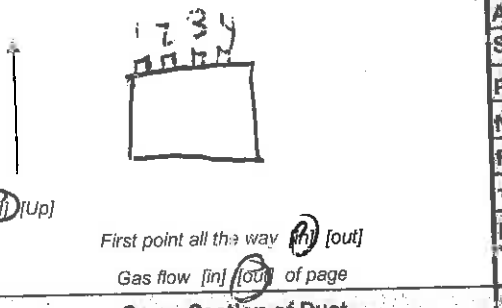
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 5 METHOD NO. 29 Page 1 of 3

Client	BIG RIVERS				
Plant	OWENSBORO, KY				
Location	ESP# 1				
Date	07/20/11	Project No.	3648		
Meter Operator	JD				
Probe Operator	ML				
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.92	Leak check	✓
Pre Leak Check	0.00	cfm	[lpm] @	18	(inHg)
Post Leak Check		cfm	[lpm] @		(inHg)



Barometric (inHg)	29.50	Water (ml) [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH2O)	-1.50	Total Vlc	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA		
Train ID	IB-	Train Type	IMP
Duct Dim. (in)	162.0"	Port Lngth (in)	
Start Time	12:05	Stop Time	17:17

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume initial (m³) [l] 514.45	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-1	4:30	.45	1.2	517.61	333	250	251	38	106	103	2	NA		
2	9:00	.50	1.4	520.45	329	251	254	41	108	105	2			
3	13:30	.65	1.6	523.81	330	251	251	42	108	105	2			
4	18:00	.60	1.7	527.19	331	255	250	41	106	103	2			
5	22:30	.48	1.3	530.06	336	254	251	42	109	103	2			
6	27:00	.55	1.5	533.61	337	250	248	43	109	104	2			
7	31:30	.48	1.3	536.66	329	251	249	44	109	104	2			
3-1	36:00	.51	1.4	538.91	332	254	251	45	110	105	2			
2	40:30	.58	1.6	541.11	331	255	248	47	110	106	2			
3	45:00	.66	1.9	545.56	339	253	250	48	113	106	3			
4	49:30	.67	1.8	549.04	336	248	250	48	115	106	3			
5	54:00	.67	1.8	552.53	336	249	251	49	117	106	3			
Total	126	20.2546	42.6	38.16	9201				3169	2955				
Average		.1412	1.521		328.71				109.36					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 5 METHOD NO. 29

Client	Big Rivers - Wilson Station				
Plant	Owensboro KY				
Location	ESP 1 Exhaust				
Date	7-20-11	Project No.	3648		
Meter Operator	ML				
Probe Operator	JL				

Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.75	Leak check	✓
Pre Leak Check		[cfm] [lpm] @			(inHg)
Post Leak Check		[cfm] [lpm] @			(inHg)

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH2O)	-16.5	Total Vlc	
Probe ID	AE 5-12-3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA	-	-
Train ID		Train Type	Imp
Duct Dim. (in)		Port Lngth (in)	

Start Time		Stop Time	

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume initial (ft³) [l] 514.45	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
2-6	58:30	.60	1.7	555.80	331	247	250	50	116	106	3	NA		
7	63:00	.53	1.5	558.76	328	246	245	51	116	106	2			
2-1	67:30	.48	1.3	561.71	331	248	251	51	116	106	2			
2	72:00	.57	1.6	564.66	333	249	252	51	117	107	2			
3	76:30	.65	1.8	567.99	335	248	251	50	116	107	2			
4	81:00	.61	1.7	571.27	333	250	249	50	116	107	2			
5	85:30	.61	1.7	574.53	329	248	249	50	116	107	2			
6	90:00	.60	1.7	577.80	330	247	250	51	115	106	2			
7	94:30	.53	1.5	580.41	331	248	250	51	115	105	2			
3-1	99:00	.45	1.2	583.56	328	246	251	50	114	105	2			
2	103:30	.45	1.2	586.01	327	245	250	50	114	105	2			
3	108:00	.55	1.5	588.95	320	249	249	50	113	105	2			
Total														
Average														

Circle correct bracketed [ ] unit

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Mutek

RUN NO. 5 METHOD NO. 29

Client	Big Rivers - Wilson Station				
Plant	Owensboro, KY				
Location	ESP 1 Exhaust				
Date	7-20-11	Project No.	3648		
Meter Operator	ML				
Probe Operator	JL				
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.75	Leak check	✓
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AE 5-12-3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA	—	—
Train ID	TB-	Train Type	Imp
Duct Dim. (in)		Port Lngth (in)	
Start Time		Stop Time	

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (Dcf) [l] 514.45	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-4	112:30	.50	1.4	541.82	315	251	251	50	116	106	2	NA		
5	117:00	.55	1.5	594.91	311	251	257	51	116	107	2	↓		
6	121:30	.50	1.4	597.82	310	249	251	51	116	108	3			
7	126:00	.45	1.2	600.61	309	250	251	51	115	109	4			
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. 6 METHOD NO. 29 Page 1 of 3

Client	Big Rivers - Wilson Station				
Plant	Owensboro, KY				
Location	ESP 1 Exhaust				
Date	7-20-21	Project No.	3648		
Meter Operator	ML				
Probe Operator	JL				
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84
ΔH@	1.843	Kf	2.72	Leak check	✓
Pre Leak Check	0.00	[cfm] [lpm] @		18	(inHg)
Post Leak Check	0.00	[cfm] [lpm] @		19	(inHg)

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AES-12m3	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA	-	-
Train ID	IB-25	Train Type	Imp
Duct Dim. (in)		Port Lngth (in)	
Start Time	15:20	Stop Time	17:30

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [l] 603.30	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-1	4:30	.46	1.3	606.05	297	251	249	38	110	106	2	NA		
2	9:00	.47	1.3	608.73	305	250	249	41	111	106	2			
3	13:30	.56	1.5	611.71	301	249	250	44	110	107	2			
4	18:00	.51	1.4	614.70	307	250	251	45	111	107	2			
5	22:30	.55	1.5	617.68	310	251	251	46	111	107	3			
6	27:00	.50	1.4	620.61	311	251	250	47	112	107	3			
7	31:30	.41	1.1	622.40	312	250	250	47	114	107	3			
2-1	36:00	.58	1.4	625.36	320	251	250	48	115	106	3			
2	40:30	.61	1.7	628.21	322	250	250	50	115	106	3			
3	45:00	.51	1.4	630.21	325	251	251	51	114	106	2			
4	49:30	.63	1.7	633.56	328	250	248	50	112	106	2			
5	54:00	.64	1.7	636.98	333	250	249	50	111	106	2			
Total	120	20.51	~~34.90~~ 41.362	81.48	8998				3189	2977				
Average		7323	~~1.45~~ 1.4750		321.36				110.11					

Circle correct bracketed [ ] units

Train Type denotes impingers, ~~knockouts~~, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 6 **METHOD NO.** 29 **Page** 2 **of** 3

Client	Big Rivers - Wilson Station					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Owensboro KY					Ambient Temp (°F)	100	Silica gel (g)	
Location	ESP 1 Exhaust					Static (inH_2O)	-16.5	Total Vlc	
Date	7-20-11	Project No.	3648			Probe ID	AE S-12-3	Liner Type	TFE
Meter Operator	ML					Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	JL					Filter ID	NA	-	-
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84	Train ID	IB-25	Train Type	Imp
ΔH@	1.873	Kf	2.72	Leak check	✓	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)				
Post Leak Check		[cfm] [lpm] @			(inHg)	Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (ft³) [l] 605.30	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
2-4	58:30	.58	1.6	640.57	331	251	250	50	112	106	3	NA		
7	63:00	.53	1.4	643.41	333	252	248	50	114	106	3			
3-1	67:30	.48	1.3	645.91	326	250	250	51	114	106	3			
2	72:00	.57	1.6	649.07	325	251	251	51	116	106	3			
3	76:30	.60	1.6	652.48	321	251	251	51	116	106	3			
4	81:00	.61	1.7	655.51	322	250	250	50	116	107	4			
5	85:30	.61	1.7	658.54	324	249	250	50	116	107	4			
6	90:00	.58	1.6	661.50	325	248	251	50	116	106	5			
7	94:30	.50	1.4	664.29	327	249	251	50	115	106	5			
4-1	99:00	.51	1.4	667.11	318	250	250	51	114	106	5			
2	103:30	.56	1.5	670.14	325	251	250	51	115	107	5			
3	108:00	.58	1.6	673.27	330	251	249	52	115	106	5			
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. 6 **METHOD NO.** 29 **Page** 3 **of** 3

Client	Big Rivers - Wilson Station						Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Owensboro KY						Ambient Temp (°F)	NV	Silica gel (g)	
Location	ESP 1 Exhaust						Static (inH_2O)	-16.5	Total Vlc	
Date	7-20-11	Project No.	3614				Probe ID	AE S-12-3	Liner Type	TFE
Meter Operator	NL						Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	JL						Filter ID	NA	-	-
Meter ID	M-15	Yd	1.0159	Pitot Cp	.84		Train ID	IB-25	Train Type	Imp
ΔH@	1.843	Kf	2.72	Leak check	✓		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)					
Post Leak Check		[cfm] [lpm] @			(inHg)		Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [(f)] [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
				603.30		250	250							
4-4	112:30	.50	1.4	675.98	331	248	248	52	116	106	5	NA		
5	117:00	.54	1.5	679.16	331	247	249	51	116	106	6			
6	121:30	.52	1.4	682.04	330	248	250	52	116	106	6			
7	126:00	.45	1.2	684.78	328	250	250	52	116	107	6			
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weight Data Sheet

PROJECT NO. 342

Page ___ of ___

Client	B.C. Rivals
Plant	~~ESP~~ DB Wilson
Location	BSP. 1
Date	3/20
Operator	RC

Run No.	4	Train ID		Filter No.	
Method No.	29				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	649.2	772.0		
Impinger No. 2	5%10%	721.4	756.5		
Impinger No. 3	5%10%	663.7	681.5		
Impinger No. 4	Empty	657.2	671.1		
Impinger No. 5	Silica	422.4	456.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5	Train ID		Filter No.	
Method No.	29				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	638	~~700.5~~	~~747.0~~	
Impinger No. 2	5% 10%	744	~~790.5~~	769.5	
Impinger No. 3	5% 10%	719	724.2		
Impinger No. 4	EMPTY	640	642.1		
Impinger No. 5	Silica	877	956.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

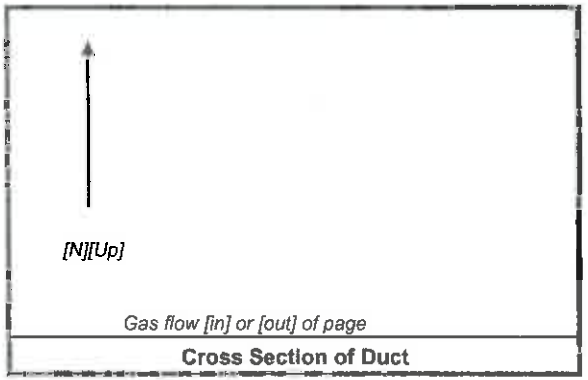
Run No.	6	Train ID		Filter No.	
Method No.	29				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	647.2	705.1		
Impinger No. 2	5% 10%	728.0	735.5		
Impinger No. 3	5% 10%	663.9	662.0		
Impinger No. 4	EMPTY	659.0	660.5		
Impinger No. 5	Silica	956.0	973.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Client	Big Rivers - Wilson
Plant	Owensboro KY
Location	ESP 1 Exhaust
Date	7-19-11
Project No.	3648
Meter Reader	ML



Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (°F)	100
Start Time	7:03
Stop Time	15:33

Sample Train A

Trap ID	95027	Meter ID	CAE R1	Yd	1.01450
Pre Leak Check	0.001	lpm @	20	(in. Hg)	
Post Leak Check	0.000	lpm @	18	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes Avg
3:45	0.4	1.345	311	103	1	221
7:30	0.4	2.897	313	105	1	227
11:15	0.4	4.125	318	106	1	230
15:00	0.4	5.791	320	108	1	231
18:45	0.4	7.024	323	111	1	233
22:30	0.4	8.590	325	111	1	233
26:15	0.4	10.100	328	113	1	236
30:00	0.4	11.636	325	113	1	239
33:45	0.4	13.188	333	114	1	240
37:30	0.4	15.020	333	115	1	236
41:15	0.4	16.284	333	116	1	237
45:00	0.4	17.961	331	116	1	238
Total		34.716	7655	2797		
Average			327.29	116.63		

3393

Sample Train B Spiked

Trap ID	94225	Meter ID	CAE R2	Yd	.9916
Pre Leak Check	0.000	lpm @	18	(in. Hg)	
Post Leak Check	0.000	lpm @	18	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
3:45	0.4	0.418	311	102	2	
7:30	0.4	3.122	313	105	2	
11:15	0.4	4.411	318	107	2	
15:00	0.4	5.800	320	110	2	
18:45	0.4	7.131	323	110	2	
22:30	0.4	8.761	325	111	2	
26:15	0.4	10.335	328	114	2	
30:00	0.4	12.023	325	114	2	
33:45	0.4	13.333	333	116	2	
37:30	0.4	14.779	333	117	2	
41:15	0.4	16.324	333	118	2	
45:00	0.4	17.551	331	118	2	
Total		35.052	7655	2860	9830	
Average			327.29	~~119.167~~	117.92	

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Page	2	of	2

Client	Big Rivers - Wilson
Plant	Uniontown KY
Location	ESP1 Exhaust
Date	7-19-11
Project No.	3648
Meter Reader	JM

[N][Up]

Gas flow [in] or [out] of page

Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (°F)	100
Start Time	
Stop Time	

Sample Train A

Trap ID	95c27	Meter ID		Yd	
Pre Leak Check		lpm @		(in. Hg)	
Post Leak Check		lpm @		(in. Hg)	

Sample Train B spiked

Trap ID	94225	Meter ID		Yd	
Pre Leak Check		lpm @		(in. Hg)	
Post Leak Check		lpm @		(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes Avg
48:45	0.4	19.527	329	118	1	227
52:30	0.4	19.966	330	119	1	230
56:15	0.4	21.369	330	120	1	231
60:00	0.4	22.916	331	121	1	233
63:45	0.4	24.444	330	122	1	234
67:30	0.4	25.985	331	122	1	235
71:15	0.4	27.471	329	123	1	236
75:00	0.4	28.978	330	123	1	236
78:45	0.4	30.479	331	124	1	236
82:30	0.4	31.611	331	125	1	238
86:15	0.4	33.199	330	126	1	240
90:00	0.4	34.716	330	125	1	241
Total						
Average						

1468

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48:45	0.4	19.186	329	119	2	
52:30	0.4	20.599	330	121	2	
56:15	0.4	22.098	330	122	2	
60:00	0.4	23.541	331	123	2	
63:45	0.4	24.897	330	124	2	
67:30	0.4	26.414	331	124	2	
71:15	0.4	27.798	329	124	2	
75:00	0.4	29.192	330	125	2	
78:45	0.4	30.204	331	126	2	
82:30	0.4	31.708	331	126	2	
86:15	0.4	33.110	330	127	2	
90:00	0.4	35.052	330	127	2	
Total						
Average						

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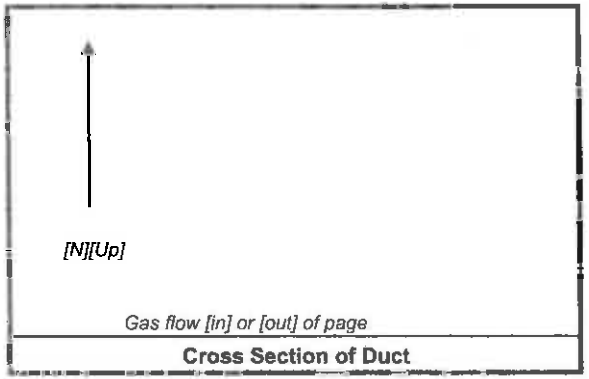
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page	1	of	2

Client	Big Rivers - Wilson
Plant	Owensboro, KY
Location	ESP 1 Exhaust
Date	7-19-11
Project No.	3618
Meter Reader	ML



Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (°F)	100
Start Time	10:09
Stop Time	11:52

Sample Train A

Trap ID	94415	Meter ID	CAE R1	Yd	1.0145C
Pre Leak Check	0.001	lpm @	18	(in. Hg)	
Post Leak Check	0.000	lpm @	17	(in. Hg)	

Sample Train B Spiked

Trap ID	94215	Meter ID	CAE R2	Yd	0.9916
Pre Leak Check	0.001	lpm @	18	(in. Hg)	
Post Leak Check	0.000	lpm @	16	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Aux Notes
3:45	0.4	1.214	330	110	1	226
7:30	0.4	2.494	330	110	1	226
11:15	0.4	4.523	332	111	1	225
15:00	0.4	5.971	333	111	1	226
18:45	0.4	7.369	334	112	1	227
22:30	0.4	8.457	334	113	1	228
26:15	0.4	9.800	323	115	1	228
30:00	0.4	11.331	324	116	1	229
33:45	0.4	13.198	328	116	1	231
37:30	0.4	14.876	329	116	1	232
41:15	0.4	16.487	324	117	1	234
45:00	0.4	17.964	325	117	1	234
Total		35.679	7982	2824		
Average			332.58	117.67		

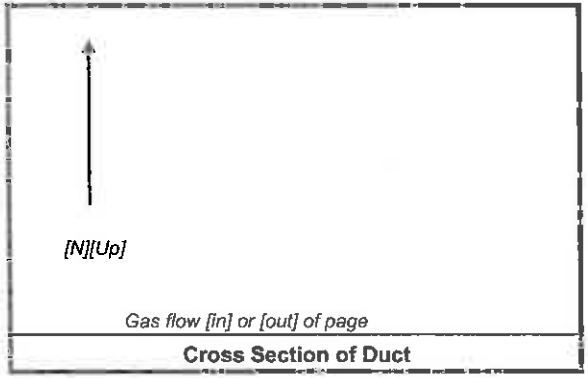
Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
3:45	0.4	1.240	330	110	2	
7:30	0.4	2.487	330	111	2	
11:15	0.4	4.521	332	110	2	
15:00	0.4	6.061	333	110	2	
18:45	0.4	7.400	334	111	2	
22:30	0.4	8.616	334	112	2	
26:15	0.4	10.001	323	115	2	
30:00	0.4	11.496	324	117	2	
33:45	0.4	13.201	328	116	2	
37:30	0.4	15.078	329	116	2	
41:15	0.4	16.501	324	117	2	
45:00	0.4	18.017	325	117	2	
Total		35.809	7982	2810		
Average			332.58	117.08		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Client	Big Rivers - Wilson
Plant	Owensboro KY
Location	ESP 1 Exhaust
Date	7-19-17
Project No.	3648
Meter Reader	JW



Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (^0F)	100
Start Time	
Stop Time	

Sample Train A

Trap ID		Meter ID		Yd	
Pre Leak Check	0.001	lpm @	18	(in. Hg)	
Post Leak Check	0.000	lpm @	17	(in. Hg)	

Sample Train B

Trap ID		Meter ID		Yd	
Pre Leak Check	0.001	lpm @	15	(in. Hg)	
Post Leak Check	0.000	lpm @	16	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Aux Notes
48:45	0.4	19.487	331	122	1	234
52:30	0.4	20.265	331	122	1	235
56:15	0.4	22.371	331	122	1	235
60:00	0.4	23.612	334	123	1	236
63:45	0.4	25.364	335	123	1	236
67:30	0.4	27.092	331	122	1	236
71:15	0.4	28.442	339	121	1	240
75:00	0.4	29.810	339	121	1	240
78:45	0.4	30.850	340	121	1	239
82:30	0.4	32.784	341	121	1	238
86:15	0.4	34.513	342	121	1	239
90:00	0.4	35.679	342	121	1	239
Total						
Average						

4036 1160

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
48:45	0.4	19.59	331	122	2	
52:30	0.4	20.498	331	122	2	
56:15	0.4	22.406	331	122	2	
60:00	0.4	23.910	334	123	2	
63:45	0.4	25.345	335	123	2	
67:30	0.4	27.021	331	122	2	
71:15	0.4	28.491	339	120	2	
75:00	0.4	29.887	339	120	2	
78:45	0.4	31.487	340	119	2	
82:30	0.4	32.677	341	119	2	
86:15	0.4	34.209	342	118	2	
90:00	0.4	35.809	342	118	2	
Total						
Average						

1448

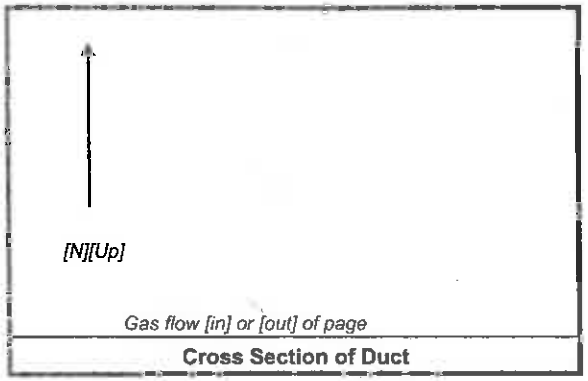
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Page	1	of	2

Client	Big Rivers - Wilson
Plant	Owensboro KY
Location	ESP 1 Exhaust
Date	7-19-11
Project No.	3048
Meter Reader	JM



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (°F)	100
Start Time	13:01
Stop Time	14:54

Sample Train A

Trap ID	94425	Meter ID	CAE R1	Yd	1.0145
Pre Leak Check	0.000	lpm @	17	(in. Hg)	
Post Leak Check	0.000	lpm @	18	(in. Hg)	

Sample Train B Spiked

Trap ID	94253	Meter ID	CAER2	Yd	0.99167
Pre Leak Check	0.000	lpm @	18	(in. Hg)	
Post Leak Check	0.000	lpm @	18	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Aux Notes
3:45	0.4	1.108	327	114	1	230
7:30	0.4	3.110	333	114	1	230
11:15	0.4	4.419	334	114	1	231
15:00	0.4	5.711	339	115	1	233
18:45	0.4	7.006	340	116	1	235
22:30	0.4	8.817	340	116	1	235
26:15	0.4	10.222	340	116	1	236
30:00	0.4	11.663	331	116	1	238
33:45	0.4	13.455	336	116	1	237
37:30	0.4	15.011	340	117	1	237
41:15	0.4	16.497	339	117	1	236
45:00	0.4	17.911	340	117		238
Total		35.964	5076	~~2617~~	2782	
Average			336.5	~~117.167~~ 115.92		

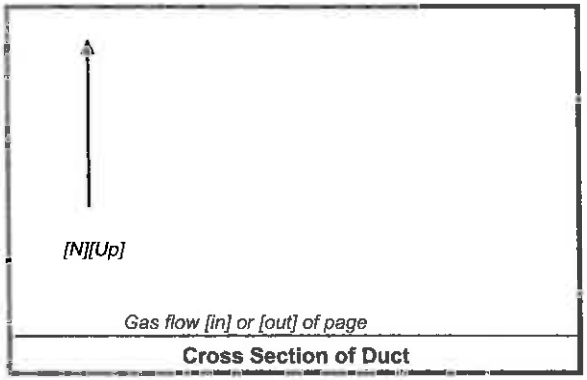
Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
3:45	0.4	1.414	327	114	2	
7:30	0.4	2.987	333	114	2	
11:15	0.4	4.387	334	114	2	
15:00	0.4	5.991	339	114	2	
18:45	0.4	7.316	340	115	2	
22:30	0.4	8.985	340	115	2	
26:15	0.4	10.301	340	115	2	
30:00	0.4	11.732	331	115	2	
33:45	0.4	13.470	336	115	2	
37:30	0.4	15.013	340	116	2	
41:15	0.4	16.385	339	116	2	
45:00	0.4	17.903	340	117	2	
Total		35.754	5076	2772		
Average			336.5	115.5		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Client	Big Rivers - Wilson
Plant	Owensboro, KY
Location	ESP 1 Exhaust
Date	7-19-11
Project No.	3648
Meter Reader	MW



Barometric (in. Hg)	29.56
Static (inH_2O)	-16.5
Ambient Temp. (^{0}F)	100
Start Time	13:01
Stop Time	

Sample Train A

Trap ID	94425	Meter ID		Yd	
Pre Leak Check	0.000		lpm @	17	(in. Hg)
Post Leak Check	0.000		lpm @	18	(in. Hg)

Sample Train B Spiked

Trap ID	94253	Meter ID		Yd	
Pre Leak Check	0.000		lpm @	18	(in. Hg)
Post Leak Check	0.000		lpm @	18	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Δv x Notes
48:45	0.4	19.754	335	117	1	
52:30	0.4	20.993	337	117	1	
56:15	0.4	22.407	338	116	1	
60:00	0.4	23.857	336	116	1	
63:45	0.4	24.867	337	116	1	
67:30	0.4	26.910	338	116	1	
71:15	0.4	28.102	340	116	1	
75:00	0.4	29.806	340	116	1	
78:45	0.4	31.186	337	116	1	
82:30	0.4	32.935	337	116	1	
86:15	0.4	34.397	331	116	1	
90:00	0.4	35.966	331	116	1	
Total						
Average						

4037 1424

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
48:45	0.4	19.912	335	116	2	
52:30	0.4	20.987	337	116	2	
56:15	0.4	22.449	338	116	2	
60:00	0.4	23.698	336	114	2	
63:45	0.4	25.075	337	116	2	
67:30	0.4	26.981	338	116	2	
71:15	0.4	28.007	340	116	2	
75:00	0.4	29.959	340	116	2	
78:45	0.4	31.467	337	116	2	
82:30	0.4	32.933	337	116	2	
86:15	0.4	34.469	331	116	2	
90:00	0.4	35.954	331	116	2	
Total						
Average						

1392

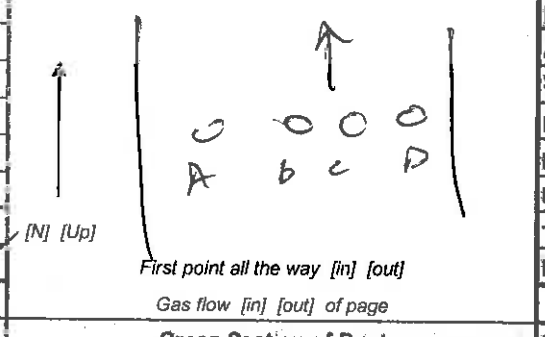
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: SB-202

RUN NO. 4 METHOD NO. _____ Page 1 of 3

Client	WK. Energy						
Plant	Wilson						
Location	#2 - SCR						
Date	7/19/11	Project No.	3648				
Meter Operator	KK						
Probe Operator	PC						
Meter ID	M9	Yd	0.9891	Pitot Cp	0.84		
ΔH@	1.856	Kf	2.81	Leak check	✓		
Pre Leak Check	0.004	[cfm] [lpm] @	15	(inHg)			
Post Leak Check	0.002	[cfm] [lpm] @	15	(inHg)			



Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH2O)	-2.4	Total Vlc	
Probe ID		Liner Type	TRR
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID	12197	—	—
Train ID		Train Type	3m r
Duct Dim. (in)	13.6 x 13.6	Port Length (in)	4 1/8
Start Time	0703	Stop Time	839

3 15 sec

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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)	Filter Exit Auxiliary Temp (°F)		Notes
A-1	0	0.37	1.04	806.321	302	322	320	65	91	90	7	80		
2	3:15	0.28	0.79	808.6	305	322	318	65	93	91	7	77		
3	6:30	0.34	0.95	810.0	304	325	321	65	94	92	7	75		
4	9:45	0.5	1.4	811.8	301	324	321	64	96	91	8	75		
5	13:0	0.39	1.1	813.9	303	323	319	64	97	95	8	78		
6	16:15	0.32	0.9	816.0	301	323	320	64	98	96	8	81		
7	19:30	0.34	0.95	817.4	305	323	321	64	99	97	9	84		
B 1	22:45	0.25	0.7	819.1	306	320	320	63	99	97	9	83		
2	26:00	0.4	1.1	820.5	316	323	321	63	99	97	9	82		
3	29:15	0.42	1.18	822.1	312	323	322	62	100	98	9	81		
4	32:30	0.35	0.98	824.1	318	316	320	62	102	100	9	78		
5	35:45	0.42	1.18	825.9	315	318	320	62	102	99	9	77		
Total														
Average														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 4 **METHOD NO.** 5B/202 **Page** 2 **of** 3

Client	WKF			Barometric (inHg)		Water [ml] [g]	
Plant	Wilson			Ambient Temp (°F)		Silica gel (g)	
Location	#2 SCR			Static (inH2O)		Total Vlc	
Date	7/19/11	Project No.		Probe ID		Liner Type	
Meter Operator	KC			Nozzle ID		Nozzle Dia (in)	
Probe Operator				Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Length (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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 (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
B-6	39:00	0.42	1.2	827.6	315	322	320	62	105	100	8	77		
7	42:15	0.42	1.2	829.5	315	321	320	62	104	100	8	77		
1	45:30	0.44	1.23	831.3	318	319	319	63	103	100	8	77		
2	48:45	0.46	1.3	832.7	321	320	319	63	103	99	8	76		
3	52:00	0.52	1.46	834.6	318	323	320	63	103	100	8 9	76		
4	55:15	0.55	1.5	836.6	319	312	321	62	105	101	10	78		
5	58:30	0.45	1.3	838.9	321	319	321	62	105	100	10	79		
6	61:45	0.51	1.43	840.9	322	321	319	62	105	99	10	80		
7	65:00	0.55	1.5	843.2	322	324	320	63	105	99	10	80		
1	68:15	0.34	0.95	845.3	329	310	321	63	105	98	10	80		
2	71:30	0.33	0.95	846.8	328	315	320	63	105	100	10	81		
3	74:45	0.4	1.1	848.6	330	316	320	64	105	99	9	81		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 4 METHOD NO. _____ Page 3 of 3

Client	LK Energy					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	#2 SCR					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	KK					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID	12197		
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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
0-4	78:00	0.42	1.2	850.4	329	320	320	64	106	100	8	82		
5	81:15	0.52	1.46	852.1	329	310	320	64	106	100	9	81		
6	84:30	0.52	1.46	854.6	330	325	320	64	107	101	9	80		
7	87:45	0.48	1.34	856.	328	317	319	65	108	102	9	81		
	91:00			858.912										
Total				52.591										
Average		0.4436	1.173		316.4				99.8					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

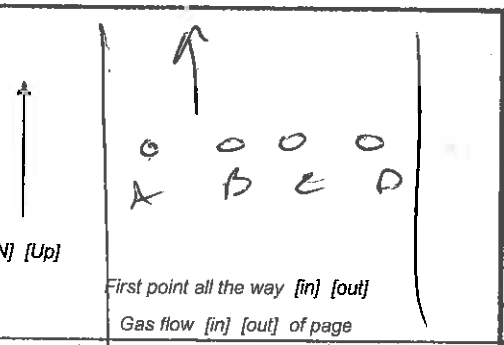
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 5 METHOD NO. _____ Page 1 of 3

Client	WKE						
Plant	Wilson						
Location	#2 SCR						
Date	7/19/11	Project No.	3648				
Meter Operator	KK						
Probe Operator	PC						
Meter ID	M9	Yd	0.9891	Pitot Cp	0.84		
ΔH@	1.856	Kf	2.81	Leak check	✓		
Pre Leak Check	0.005	[cfm] [lpm] @	15	(inHg)			
Post Leak Check	0.004	[cfm] [lpm] @	15	(inHg)			



Cross Section of Duct

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	100	Silica gel (g)	
Static (inH_2O)	> 24"	Total Vlc	
Probe ID		Liner Type	Teflon
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID	12162		
Train ID		Train Type	Emp.
Duct Dim. (in)	[illegible]	Port Length (in)	6 3/4"
Start Time	1023	Stop Time	1134 / 1157

12162

KK

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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)	Filter Exit Auxiliary Temp (°F)		Notes
D-1	0	0.37	1.0	862.001	332	323	320	67	103	103	7	84		
2	3:15	0.43	1.2	864.1	332	322	322	66	103	103	7	82		
3	6:30	0.42	1.2	866.1	332	322	320	66	104	103	7	83		
4	9:45	0.44	1.23	867.7	332	323	320	65	104	103	7	83		
5	13:00	0.45	1.26	869.9	332	324	320	64	105	103	7	84		
6	16:15	0.49	1.38	871.9	331	323	320	64	105	103	8	83		
7	19:30	0.51	1.43	874.1	332	322	319	64	106	103	8	81		
C-1	22:45	0.39	1.1	876.1	321	323	321	63	107	103	8	82		
2	26:00	0.45	1.26	879.45	323	322	319	63	107	103	8	83		
3	29:15	0.58	1.6	881.4	325	324	321	63	108	104	10	82		
4	32:30	0.55	1.55	883.7	326	324	321	63	109	104	10	82		
5	35:45	0.53	1.5	885.9	326	323	321	63	111	104	10	82		
Total														
Average														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 5 METHOD NO. _____ Page 2 of 3

Client	WKE					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	#2 SCR					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	KF					Nozzle ID		Nozzle Dia (in)	
Probe Operator	PC					Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Length (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	39:00	0.52	1.46	887.9	324	323	320	63	111	105	10	82		
7	42:45	0.62	1.74	890.3	324	323	320	63	111	105	11	83		
B-1	45:30	0.43	1.2	892.6	318	322	319	63	111	105	10	84		
2	48:45	0.45	1.26	894.7	320	322	320	63	111	105	10	84		
3	52:00	0.48	1.35	896.9	320	324	321	62	112	106	10	83		
4	55:15	0.54	1.5	899.0	321	323	321	62	112	106	10	83		
5	58:30	0.55	1.55	901.15	321	323	320	62	112	106	10	83		
6	61:45	0.55	1.55	903.4	319	323	322	62	112	106	10	76		
7	65:00	0.52	1.46	905.5	321	322	322	62	112	106	10	75		
A-1	69:15	0.34	0.96	908.9	312	323	320	62	111	107	8	76		
2	71:30	0.41	1.15	910.1	314	323	320	62	111	107	8	84		
3	74:45	0.52	1.46	912.0	310	323	317	62	112	107	9	83		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 5 METHOD NO. _____ Page 3 of 3

Client	WKE					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	#2 SCR					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	KK					Nozzle ID		Nozzle Dia (in)	
Probe Operator	PC					Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Length (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	78:00	0.45	1.26	913.9	310	323	321	63	114	108	9	82		
5	81:15	0.55	1.55	916.1	306	323	321	63	114	108	10	83		
6	84:30	0.45	1.26	918.	306	323	321	64	114	108	10	82		
7	87:45	0.43	1.2	920.3	306	323	320	64	114	108	10	83		
	91:00			922.495										
Total														
Average		0.4906	1.344	60.494	321.3				107.3					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

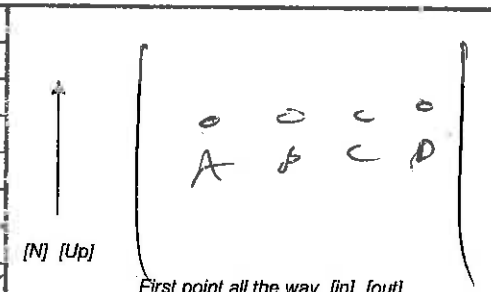
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 6 METHOD NO. _____ Page 1 of 3

Client	WKE						
Plant	Wilson						
Location	#2 ESP						
Date	7/19/11	Project No.	3648				
Meter Operator	KC						
Probe Operator	PC						
Meter ID	M-9	Yd	0.9891	Pitot Cp	0.84		
ΔH@	1.856	Kf	2.81	Leak check	✓		
Pre Leak Check	0.005	[cfm] [lpm] @	15	(inHg)			
Post Leak Check	0.001	[cfm] [lpm] @	15	(inHg)			



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)	105	Silica gel (g)	
Static (inH2O)	> 24"	Total Vlc	
Probe ID		Liner Type	Teflon
Nozzle ID	.25	Nozzle Dia (in)	—
Filter ID	12185	—	—
Train ID		Train Type	Imp
Duct Dim. (in)	13.6x13.6	Port Length (in)	43.1
Start Time	1301	Stop Time	1454

Traverse Point	Min/Point 3:15 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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)	Filter Exit Auxiliary Temp (°F)		Notes
A-1	0	0.32	0.9	924.125	316	324	320	67	104	104	7	84		
2	3:15	0.34	0.95	926.3	317	323	320	67	104	104	7	80		
3	6:30	0.34	0.95	927.9	317	322	320	66	104	104	7	77		
4	9:45	0.54	1.5	929.9	311	322	322	66	105	104	8	74		
5	13:00	0.52	1.46	932.1	310	323	321	65	107	104	8	72		
6	16:15	0.45	1.26	934.3	307	323	320	65	108	104	8	73		
7	19:30	0.46	1.29	936.4	309	324	321	64	109	105	8	80		
B-1	22:45	0.45	1.26	938.3	316	323	319	64	110	105	8	81		
2	26:00	0.45	1.26	942.6	320	323	318	64	111	105	8	82		
3	29:15	0.53	1.49	942.5	320	323	319	64	111	105	8	82		
4	32:30	0.52	1.46	944.7	321	323	321	64	112	105	8	82		
5	35:45	0.54	1.52	947.1	322	322	321	64	112	106	8	81		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 6 METHOD NO. _____ Page 2 of 3

Client	WKE			Barometric (inHg)		Water [ml] [g]	
Plant	Wilson			Ambient Temp (°F)		Silica gel (g)	
Location	#2 ESP			Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.		Probe ID		Liner Type	
Meter Operator	KK			Nozzle ID		Nozzle Dia (in)	
Probe Operator	PC			Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Length (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	39:00	0.56	1.57	949.2	318	323	321	64	113	106	8	82		
#2 7	42:15	0.56	1.57	951.5	319	323	322	64	113	106	8	82		
#-1	45:30	0.5	1.4	953.8	330	322	318	64	113	107	8	84		
D 2	48:45	0.42	1.18	956.4	335	323	319	64	113	107	8	84		
3	52:00	0.42	1.18	957.7	336	323	320	64	113	107	8	84		
4	55:15	0.44	1.24	959.8	336	323	322	64	113	107	8	84		
5	58:30	0.44	1.24	961.6	336	323	319	63	113	107	8	83		
#6	61:45	0.36	1.0	963.9	315	324	321	63	113	107	8	82		
G 7	65:00	0.37	1.04	965.7	325	323	321	63	113	107	8	80		
X-1	68:15	0.45	1.26	967.5	325	324	318	63	113	107	8	80		
2	71:30	0.5	1.4	969.4	325	324	318	63	113	107	8	78		
3	74:45	0.5	1.4	971.7	325	324	321	64	114	107	8	75		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: 5B/202

RUN NO. 6 METHOD NO. _____ Page 3 of 3

Client	WKE					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	#2 ESP					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	KK					Nozzle ID		Nozzle Dia (in)	
Probe Operator	DC					Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)					

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	78:00	0.54	1.52	973,8	325	323	321	63	114	107	8	73		
5	81:15	0.57	1.6	975,0	326	323	321	63	114	107	8	72		
6	84,30	0.62	1.74	978,3	327	324	321	63	115	108	9	73		
7	87:45	0.54	1.52	980,7	327	324	321	63	115	108	8	74		
	91:00			982,910										
Total														
Average		0.6855	1.327	58,785	321.9				108.55					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3264E

Page ___ of ___

Client:	BLR Board
Plant:	DB Wilson
Location:	ESP # 2
Date:	7/19/11 Unit:
Operator:	BC

Run No.	4				
Method No.	SB202	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	423.2	550.0	-50	
Impinger No. 2	DI	732.0	763.5		
Impinger No. 3	Empty	645.0	635.1		
Impinger No. 4	Silica	907.0	930.1		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	SB202	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	452.3	679.2	-50	
Impinger No. 2	DI	736.2	678.0		
Impinger No. 3	Empty	~~627.0~~ 612.8	615.0		
Impinger No. 4	Silica	846.9	880.2		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	SB202	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	425.6	622.7	-50	
Impinger No. 2	DI	742.8	740.0		
Impinger No. 3	Empty	609.0	624.0		
Impinger No. 4	Silica	936.8	952.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

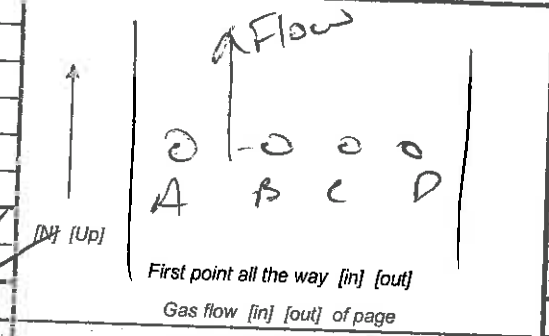
RUN NO. 4

METHOD NO. 26A

Page 1 of 1

Client	WKE				Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Wilson				Ambient Temp (°F)	95	Silica gel (g)	
Location	#2 ESP				Static (inH_2O)	>24	Total Vlc	
Date	7/20/11	Project No.			Probe ID	~~0737~~	Liner Type	GLASS
Meter Operator	KK				Nozzle ID	0.235	Nozzle Dia (in)	—
Probe Operator	KK, PC				Filter ID	NA	—	—
Meter ID	M5	Yd	0.9953	Pitot Cp	0.84	Train ID		Train Type	Imp.
ΔH@	1.917	Kf	2.28	Leak check	✓	Duct Dim. (in)	136x136	Port Lngth (in)	43"
Pre Leak Check	0.002	[cfm] [lpm] @	12	(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)					

1K=6.5



Start Time 0840 Stop Time 1639

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
A	0	NA	2.0	398.314	302	238	261	65	100	94	7	NA		
	10		2.0	405.9	303	243	254	64	102	95	8			
	20		2.0	413.6	303	252	252	64	109	97	8			
	30		2.0	421.5	304	251	253	63	111	98	8			
	40		2.0	429.3	305	250	252	64	113	100	8			
	50		2.0	436.75	305	252	252	63	114	101	8			
	60		2.0	444.5	305	250	251	64	116	103	9			
D	70		2.0	452.7	333	252	251	64	118	105	9			
	80		2.0	460.25	334	235	253	60	119	106	9			
	90		2.0	468.04	335	237	252	59	120	107	9			
	100		2.0	476.1	336	239	251	60	121	109	9			
	110		2.0	483.7	338	238	250	61	122	110	9			
~~Total~~	120			491.438										
Average			2.0	93.124	316.9				107.9					

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

CO = 12
O_2 = 5
H_2O = 5

AIRTECH ENVIRONMENTAL SERVICES INC.

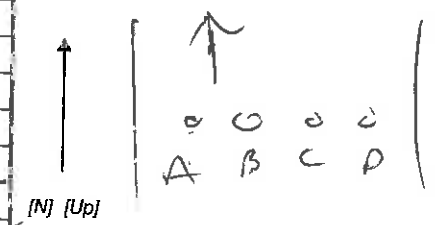
General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 5 METHOD NO. 26A.

Page 1 of 1

Client	WKE					
Plant	Wilson					
Location	#2 ESP					
Date	7/20/11	Project No.				
Meter Operator	KK					
Probe Operator	KK, PC					
Meter ID	M5	Yd	0.9953	Pitot Cp	0.84	
ΔH@	1.917	Kf	NA	Leak check	✓	
Pre Leak Check	0.005	[cfm] [lpm] @	15	(inHg)		
Post Leak Check		[cfm] [lpm] @		(inHg)		



First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	103	Silica gel (g)	
Static (inH₂O)	> 24	Total Vlc	
Probe ID		Liner Type	Glass
Nozzle ID	.25	Nozzle Dia (in)	—
Filter ID	NA		—
Train ID		Train Type	Impinger
Duct Dim. (in)	13.6x13.6	Port Length (in)	48
Start Time	1205	Stop Time	1405

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH₂O)	Orifice Setting ΔH (inH₂O)	Gas Sample Volume Initial [ft³] [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
D	0	NA	2.0	495,221	331	239	253	67	109	108	10	NA		
	10		2.0	503,47	337	253	250	65	110	107	10			
	20		2.0	511,2	337	252	249	62	114	107	10			
	30		2.0	518,8	336	251	253	62	118	108	10			
	40		2.0	526,5	337	252	252	63	120	109	10			
	50		2.0	534,17	337	252	255	64	122	111	10			
	60		2.0	541,92	337	251	253	64	121	111	11			
	70		2.0	549,68	337	252	249	65	121	111	11			
	80		2.0	557,53	337	249	252	66	122	111	11			
A	90		2.0	565,3	311	252	249	63	121	111	11			
	100		2.0	573,11	311	252	252	62	122	111	11			
	110		2.0	580,91	311	251	252	62	122	111	11			
~~Total~~	120			588,721										
Average			2.0	93.500	329.9				114.1					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

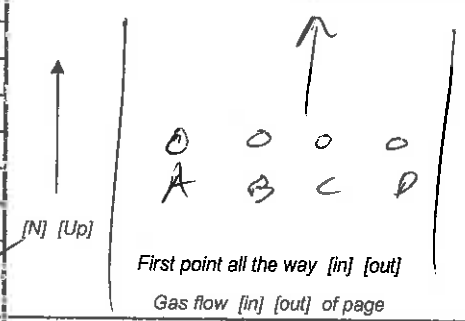
General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 6 METHOD NO. 26A

Page 1 of 1

Client	WKE						
Plant	Wilson						
Location	#2 ESP						
Date	7/20/11	Project No.					
Meter Operator	KIC						
Probe Operator	KK/PC						
Meter ID	M-5	Yd	0.9953	Pitot Cp	0.84		
ΔH@	1.917	Kf	NA.	Leak check	✓		
Pre Leak Check	15	[cfm] [lpm] @	0.005	(inHg)			
Post Leak Check	12	[cfm] [lpm] @	0.000	(inHg)			



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	105 in the shade!	Silica gel (g)	
Static (inH2O)	>24"	Total Vlc	
Probe ID		Liner Type	Glass
Nozzle ID	.28	Nozzle Dia (in)	—
Filter ID	NA		—
Train ID		Train Type	Impg.
Duct Dim. (in)	D.C. 13.6	Port Length (in)	43"
Start Time	1520	Stop Time	1720

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
A	0	NA	2.0	590.570	310	225	251	65	114	112	9	NA		
	10		2.0	598.9	312	247	250	63	117	112	9			
	20		2.0	606.68	311	248	251	62	120	113	9			
	30		2.0	614.44	311	248	249	61	122	113	9			
	40		2.0	622.20	311	247	252	62	123	114	9			
	50		2.0	629.96	311	249	254	62	123	114	9			
	60		2.0	637.75	310	249	251	63	123	114	9			
D	70		2.0	645.37	338	236	255	63	123	114	9			
	80		2.0	653.08	337	242	252	64	123	114	9			
	90		2.0	660.88	338	248	252	64	123	114	9			
	100		2.0	668.71	338	248	251	65	123	114	9			
	110		2.0	676.55	338	249	253	65	123	114	9			
~~Total~~	120			684.153										
Average			2.0	93.583	322.1				117.5					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3645

Page | of

Client	Big Rivers
Plant	DB Wilson
Location	ESP 2
Date	7/26/11
Operator	BE

Run No.	4				
Method No.	26	Train ID		Filter No.	
	Contents	Tare Weight (Contents) (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	651.0	842.3	-50	
Impinger No. 2	H_2SO_4	629.1	656.4		
Impinger No. 3	Empty	527.0	591.7		
Impinger No. 4	Silica	861.2	885.5		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	26	Train ID		Filter No.	
	Contents	Tare Weight (Contents) (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	720.6	923.2	-50	
Impinger No. 2	H_2SO_4	736	755.3		
Impinger No. 3	Empty	601	610.3		
Impinger No. 4	Silica	938	963.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	26	Train ID		Filter No.	
	Contents	Tare Weight (Contents) (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	655.9	854	-50	
Impinger No. 2	H_2SO_4	630.5	651		
Impinger No. 3	Empty	592.5	595		
Impinger No. 4	Silica	885.5	901		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

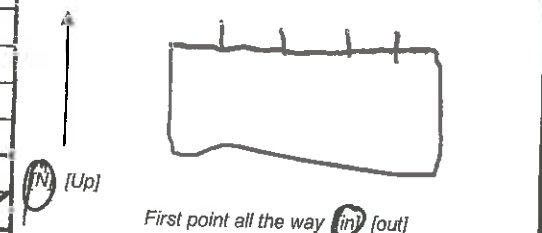
TESTING TYPE: Metals

RUN NO. 4

METHOD NO. 29

Page 1 of 3

Client	WKE				
Plant	Wilson				
Location	ESP 2				
Date	7/20/11	Project No.			
Meter Operator	P.C.				
Probe Operator	K.K P.C				
Meter ID	M-9	Yd	.9891	Pitot Cp	
ΔH@	1.856	Kf	2.[illegible]	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	10	(inHg)	
Post Leak Check	.000	[cfm] [lpm] @	12	(inHg)	



Barometric (inHg)	29.5	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH_2O)	7.24	Total Vlc	
Probe ID	AE-5-12	Liner Type	teflon
Nozzle ID	.260	Nozzle Dia (in)	—
Filter ID	NW	—	—
Train ID	Imp12	Train Type	Imp
Duct Dim. (in)	13.6x13.6	Port Length (in)	43.1
Start Time	8:40	Stop Time	16:58

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 487.19	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	4:30	.38	1.05	990.46	331	249	250	56	99	98	7	N/A		
2	9:00	.37	1.02	992.98	331	248	250	53	102	98	6			
3	13:30	.37	1.02	995.51	330	249	250	53	103	99	6			
4	18:00	.36	1.00	998.08	330	252	251	53	105	99	6			
5	22:30	.35	.97	1000.61	331	243	250	53	106	100	6			
6	27:00	.37	1.02	1003.18	331	240	250	54	107	101	6			
7	31:30	.5	1.39	1005.72	329	245	249	54	108	102	6			
2-1	36:00	.47	1.30	1008.29	318	242	250	55	108	102	6			
2	40:30	.48	1.33	1010.95	318	238	250	56	109	103	6			
3	45:00	.55	1.52	1013.87	324	248	251	56	111	103	6			
4	49:30	.57	1.58	1016.94	324	250	250	57	111	104	8			
5	54:00	.56	1.55	1019.98	323	250	250	58	111	105	8	↓		
Total			14.75		3970				1260	1214				
Average		1.586	(.21)	77.29	(319.96)				(110.57)	(104.84)				

(104.73 Est)

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 4

METHOD NO. 29

Client	WKE				
Plant	Wilson				
Location	ESP 2				
Date	7/20/11	Project No.			
Meter Operator	P.C.				
Probe Operator	K.K. P.C.				
Meter ID	M-9	Yd	.9891	Pitot Cp	
ΔH@	1.956	Kf	2.77	Leak check	✓
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

(N) [Up]

First point all the way (in) [out]

Gas flow [in] (out) of page

Cross Section of Duct

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)		Silica gel (g)	
Static (inH_2O)		Total Vlc	
Probe ID	AE-5-12	Liner Type	tef l
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID	Imb12	Train Type	
Duct Dim (in)		Port Length (in)	
Start Time		Stop Time	

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
						250	250							
6	58:30	.37	1.02	1022.89	323	250	251	59	112	105	6	N/A		
7	63:00	.39	1.08	1025.47	324	250	250	61	112	106	6			
3-1	67:30	.39	1.08	1028.25	319	250	252	62	111	106	6			
2	72:00	.38	1.05	1031.53	319	251	250	64	112	107	6			
3	76:30	.4	1.10	1033.22	320	248	250	61	112	107	6			
4	81:00	.52	1.44	1035.99	319	241	250	56	113	107	6			
5	85:30	.54	1.50	1038.97	319	237	250	56	114	108	7			
6	90:00	.46	1.27	1042.02	312	238	250	54	115	108	8			
7	94:30	.47	1.30	1044.88	315	235	250	56	114	108	8			
4-1	99:00	.32	.89	1047.74	310	242	250	57	115	109	7			
2	103:30	.3	.83	1050.36	314	248	250	58	116	109	7			
3	108:00	.3	.83	1052.66	314	248	250	59	114	109	6			
Total			13.39		3809				1360	1289				
Average			1.21	77.29	319.96				1105.7	104.89				

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

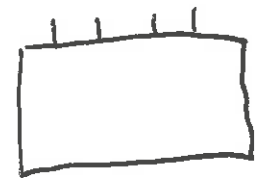
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 4 METHOD NO. 29

Client	WKE				Barometric (inHg)		Water [ml] [g]	
Plant	Wilson				Ambient Temp (°F)		Silica gel (g)	
Location	ESP2				Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.			Probe ID	AE-5-12	Liner Type	tef1
Meter Operator	P.C.				Nozzle ID		Nozzle Dia (in)	
Probe Operator	K.K. P.C.				Filter ID			
Meter ID	M-9	Yd	.9891	Pitot Cp	Train ID	Imb 12	Train Type	
ΔH@	1.856	Kf	2.77	Leak check ✓	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)				
Post Leak Check		[cfm] [lpm] @		(inHg)	Start Time		Stop Time	



Cross Section of Duct

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l]	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4	112:30	.50	1.39	1055.43	307	247	248	61	114	109	7	N/A		
5	117:00	.52	1.44	1058.37	308	249	250	63	114	109	7	↓		
6	121:30	.54	1.50	1061.43	308	249	250	64	114	108	7			
7	126:00	.53	1.49	1064.48	308	249	251	66	114	108	8			
Total			5.82		1231				456	434				
Average			1.21	77.29	319.96				110.57	104.89				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

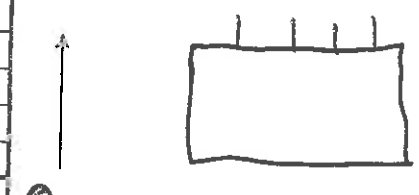
TESTING TYPE: Metals

RUN NO. ~~2~~ 5

METHOD NO. 29

Page 1 of 3

Client	WKE				
Plant	Wilson				
Location	ESP 2				
Date	7/20/11	Project No.			
Meter Operator	P.C.				
Probe Operator	KK P.C.				
Meter ID	M-9	Yd	.9891	Pitot Cp	
ΔH@	1.856	Kf	~~.5427~~	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	12	(inHg)	
Post Leak Check	.000	[cfm] [lpm] @	13	(inHg)	



Barometric (inHg)	29.3	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH2O)	-7.4	Total Vlc	
Probe ID	AE-S-12	Liner Type	Teflon
Nozzle ID	.25	Nozzle Dia (in)	—
Filter ID	NA	—	—
Train ID		Train Type	EMB
Duct Dim. (in)	13.6 x 13.6	Port Length (in)	43"
Start Time	1205	Stop Time	14:14

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 1067.51	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-1	4:30	.28	.78	1071.11	318	234	249	54	107	107	6	N/A		
2	9:00	.28	.78	1073.34	318	252	249	54	108	107	6			
3	13:30	.28	.78	1075.56	318	255	252	54	109	107	6			
4	18:00	.4	1.10	1077.72	312	252	251	55	111	107	7			
5	22:30	.42	1.16	1080.59	312	251	251	55	112	107	7			
6	27:00	.41	1.14	1083.24	308	250	250	56	112	107	7			
7	31:30	.45	1.27	1085.78	309	249	249	55	112	107	7			
2-1	36:00	.39	1.08	1088.65	323	250	250	53	112	108	7			
2	40:30	.41	1.14	1091.24	324	250	250	53	113	108	7			
3	45:00	.39	1.08	1093.83	323	250	250	53	113	108	7			
4	49:30	.59	1.63	1096.73	323	250	249	53	114	108	8			
5	54:00	.56	1.55	1099.87	324	250	247	53	115	108	8			
Total			13.49		3812				1338	1289				
Average		.446 EA	1.17	75.74	325.43				112.86	107.89				

110 F4

Circle correct bracketed [ ] units.

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

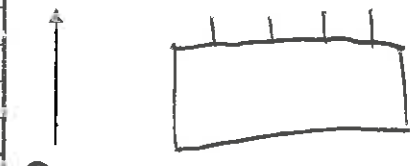
General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 5 (X) METHOD NO. 29

Page 2 of 3

Client	WKE					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP 2					Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.				Probe ID	AE-5-12	Liner Type	tefl
Meter Operator	P.C.					Nozzle ID		Nozzle Dia (in)	
Probe Operator	K.K. P.C.					Filter ID			
Meter ID	M-9	Yd	.9891	Pitot Cp		Train ID		Train Type	IMB
ΔH@	1.856	Kf	~~2.81~~ 2.77	Leak check	✓	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)				
Post Leak Check		[cfm] [lpm] @			(inHg)	Start Time		Stop Time	



Cross Section of Duct

Traverse Point	Min/Point 4:20 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l]	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
6	58:30	.35	.97	1102.62	320	249	247	54	115	108	7	N/A		
7	63:00	.35	.97	1105.21	320	249	250	55	113	108	7			
3-1	67:30	.43	1.19	1107.67	329	251	250	58	113	108	7			
2	72:00	.44	1.22	1110.35	328	251	252	58	113	108	7			
3	76:30	.46	1.27	1113.07	330	250	252	57	113	108	7			
4	81:00	.49	1.22	1115.84	331	250	249	57	114	108	7			
5	85:30	.52	1.44	1118.61	330	250	247	59	114	108	8			
6	90:00	.54	1.50	1121.49	329	250	251	60	113	108	8			
7	94:30	.52	1.44	1124.47	330	250	251	62	114	108	8			
4-1	99:00	.28	.78	1127.29	337	250	250	54	114	106	6			
2	103:30	.28	.78	1129.52	337	250	250	55	113	108	6			
3	108:00	.44	1.22	1132.03	336	250	250	57	113	108	7	↓		
Total			14		3357				1362	[illegible]	1296			
Average			(1.17)	(75.74)	(325.43)				(113.50)	(107.89)				

(110 EA)

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. ~~1~~ 5 METHOD NO. 29

Page 3 of 3

Client	WKE			Barometric (inHg)		Water [ml] [g]	
Plant	Wilson			Ambient Temp (°F)		Silica gel (g)	
Location	ESP2			Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.		Probe ID	AE-5-12	Liner Type	tefl
Meter Operator	P.C.			Nozzle ID		Nozzle Dia (in)	
Probe Operator	K.K. P.C.			Filter ID			
Meter ID	M-9	Yd	.9891	Pitot Cp		Train ID		Train Type	IMB
ΔH@	1.856	Kf	2.77	Leak check	✓	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

(N) [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_2O)	Orifice Setting ΔH (inH_2O)	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
						250	250							
4	112:30	.47	1.30	1134.81	336	250	249	54	115	109	8	N/A		
5	117:00	.45	1.25	1137.60	336	250	250	54	115	109	8			
6	121:30	.48	1.33	1140.47	335	250	249	54	115	109	8			
7	126:00	.46	1.25	1143.25	336	250	250	55	115	109	8			
Total		11.88	5.13	8.44	1343				460	436				
Average		(1.69)	(1.17)	(75.14)	(335.75)				(112.94)	(107.89)				

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 6 METHOD NO. 29

Page 1 of 3

Client	WKE				
Plant	Wilson				
Location	ESP 2				
Date	7/20/11	Project No.			
Meter Operator	P.C.				
Probe Operator	K.K. P.L.				
Meter ID	M-9	Yd	.9891	Pitot Cp	
ΔH@	1.856	Kf	2.77	Leak check	✓
Pre Leak Check	.006	[cfm] [lpm] @	10	(inHg)	
Post Leak Check	.006	[cfm] [lpm] @	13	(inHg)	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.5	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH_2O)	72	Total Vlc	
Probe ID	AE-5-12	Liner Type	tefl
Nozzle ID	.25	Nozzle Dia (in)	
Filter ID	N/A		
Train ID		Train Type	IMB
Duct Dim. (in)	18 C R 13.6	Port Length (in)	43
Start Time	15:20	Stop Time	17:50

Traverse Point	Min/Point 4:30 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 1460.91	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	4:30	.30	.83	150.19	341	249	249	56	104	104	5	N/A		
2	9:00	.30	.83	152.35	340	250	251	53	104	104	5			
3	13:30	.44	1.27	154.88	339	249	252	51	106	103	6			
4	18:00	.43	1.19	157.56	338	250	250	50	107	104	6			
5	22:30	.44	1.22	160.30	338	251	251	50	107	104	6			
6	27:00	.28	.78	162.76	329	249	252	52	108	104	5			
7	31:30	.29	.80	165.01	330	249	260	54	108	104	5			
2-1	36:00	.48	1.34	167.68	328	252	250	54	110	104	7			
2	40:30	.47	1.30	170.31	326	251	249	54	111	105	7			
3	45:00	.5	1.39	173.19	328	250	252	54	111	105	7			
4	49:30	.57	1.58	176.22	329	249	250	55	112	105	7			
5	54:00	.58	1.61	179.34	329	250	251	55	112	106				
Total		.664	14.09		3995				1380	1252				
Average		EA	1.24	79.1	324.32				110.75	105.37				

108.9 FA

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

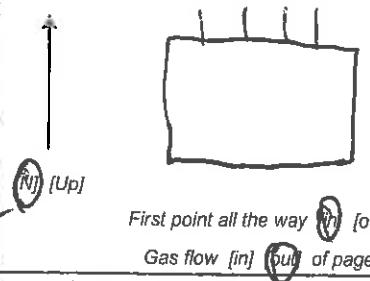
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 6 METHOD NO. 29

Client	WKE				
Plant	Wilson				
Location	ESP2				
Date	7/20/11	Project No.			
Meter Operator	P.C.				
Probe Operator	K.K. P.C.				
Meter ID	M-9	Yd	.9891	Pitot Cp	
ΔH@	1.856	Kf	2.77	Leak check	✓
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	



Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)		Silica gel (g)	
Static (inH2O)		Total Vlc	
Probe ID	AE-5-12	Liner Type	tefl
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID		Train Type	IMB
Duct Dim. (in)		Port Length (in)	
Start Time	15:20	Stop Time	

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
						250	250							
4	112:30	.53	1.47	216.84	312	244	249	56	112	106	6	N/A		
5	117:00	.54	1.50	219.85	311	250	251	56	112	106	8			
6	121:30	.55	1.52	222.93	311	251	250	56	113	106	8			
7	126:00	.52	1.44	226.01	312	251	251	56	113	106	8			
Total			5.93		1246				450	424				
Average			1.24	79.1	312.32				110.75	105.32				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3549

Page ___ of ___

Client	BIOBURN
Plant	DB WILSON
Location	ESP 2
Date	7/22
Operator	BL

Run No.	4				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	460.6	654.2	-50	
Impinger No. 2	5% 10%	714.5	652.5		
Impinger No. 3	5% 10%	727.5	736.5		
Impinger No. 4	Empty	622.5	622.0		
Impinger No. 5	Silica	861.5	871.7		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	561.2	726.6	-50	
Impinger No. 2	5% 10%	791.0	775.5		
Impinger No. 3	5% 10%	671.0	635.5		
Impinger No. 4	Empty	569.0	559.6		
Impinger No. 5	Silica	866.0	855.1		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	453.3	655.9	-50	
Impinger No. 2	5% 10%	713.3	745.2		
Impinger No. 3	5% 10%	727.3	732.3		
Impinger No. 4	Empty	622.3	625.6		
Impinger No. 5	Silica	875.0	895.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

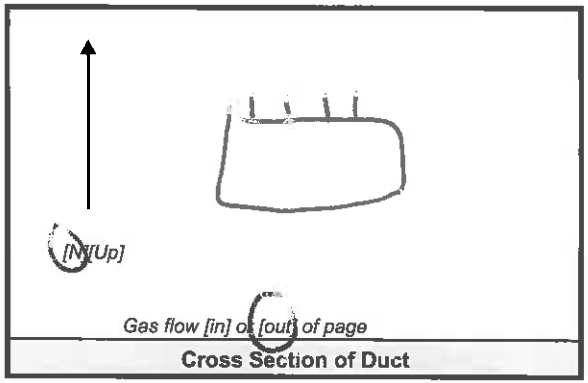
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Page	1	of	5

Client	WKA
Plant	DB Wilson
Location	SCR #2
Date	7-19-11
Project No	3640
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-.24
Ambient Temp. (^{0}F)	104
Start Time	7:03
Stop Time	8:39

Sample Train A Unspiked Trap Rank 1

Trap ID	95033	Meter ID	R-20078	Yd	1.0075
Pre Leak Check	.000	lpm @	18		(in. Hg)
Post Leak Check	.000	lpm @	15		(in. Hg)

Sample Train B Spiked Trap Rank 1

Trap ID	94305	Meter ID	R-20078	Yd	1.9985
Pre Leak Check	.000	lpm @	19		(in. Hg)
Post Leak Check	.000	lpm @	15		(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
3.75	.5	~~1.60~~	305	93	4	vol 1.46
7.5	.5	3.66	305	94	4	
11.25	.5	5.45	305	95	6	
15	.5	7.13	305	95	6	
18.75	.5	8.95	305	97	6	
22.5	.5	10.64	305	99	6	
26.25	.5	12.43	306	102	6	
30	.5	14.24	306	104	6	
33.75	.5	16.00	306	104	6	
37.5	.5	17.76	306	104	6	
41.25	.5	19.48	306	105	6	
45	.5	~~21.23~~	306	106	7	
Total		41.43	3666	~~4413~~		
Average			312.45	108.12		

1194

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
3.75	.5	1.74	305	93	2	
7.5	.5	3.69	305	94	3	
11.25	.5	5.62	305	95	4	
15	.5	7.76	305	95	4	
18.75	.5	8.93	305	97	4	
22.5	.5	10.63	305	99	4	
26.25	.5	12.33	306	102	4	Dia 102
30	.5	14.02	306	104	4	
33.75	.5	15.69	306	104	4	
37.5	.5	17.41	306	104	4	
41.25	.5	19.03	306	105	4	
45	.5	20.96	306	106	4	
Total		41.69	3660	~~1196~~		
Average			312.15	106.12		

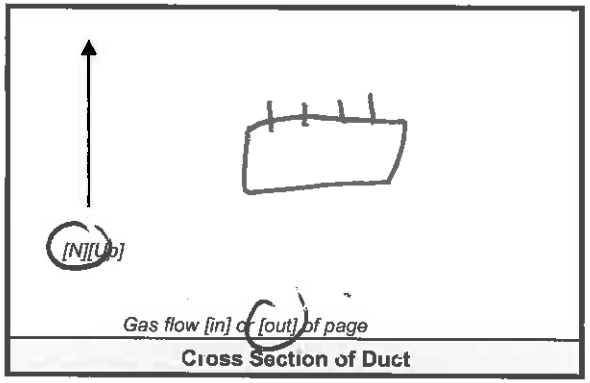
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Page	2	of	2

Client	wlw
Plant	DB wilson
Location	SCR # 2
Date	7-19-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-2.4
Ambient Temp. (°F)	104
Start Time	7:03
Stop Time	8:13 9

Sample Train A Unspiked Trap

Trap ID	95033	Meter ID	K-factor	Yd	1.0320
Pre Leak Check	.000		lpm @	15	(in. Hg)
Post Leak Check	.000		lpm @	15	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48.75	.5	32.95	312	109	7	
52.5	.5	34.70	319	110	7	
56.25	.5	36.39	320	112	7	
60	.5	38.20	320	112	7	
63.75	.5	39.90	321	114	7	
67.5	.5	31.39	321	114	7	
71.25	.5	30.79	321	116	7	
75	.5	34.35	321	114	7	
78.75	.5	36.14	321	121	7	
82.5	.5	37.90	321	123	7	
86.25	.5	39.67	321	123	7	
90	.5	41.48	321	124	7	
Total		41.48	~~3839~~	1397		
Average			312.75			

Sample Train B Spiked Trap

Trap ID	94305	Meter ID	K-factor	Yd	.9985
Pre Leak Check	.000		lpm @	19	(in. Hg)
Post Leak Check	.000		lpm @	15	(in. Hg)

Min/Point 3.7 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48.75	.5	32.09	312	109	4	
52.5	.5	34.51	319	110	4	
56.25	.5	36.27	320	112	4	
60	.5	38.09	320	112	4	
63.75	.5	39.56	321	114	4	
67.5	.5	31.38	321	114	4	
71.25	.5	33.19	321	110	4	
75	.5	35.08	321	119	4	
78.75	.5	36.81	321	121	4	
82.5	.5	38.63	321	121	4	
86.25	.5	39.86	321	123	4	
90	.5	41.69	321	124	4	
Total		41.69	~~3854~~	1397		
Average			312.75			

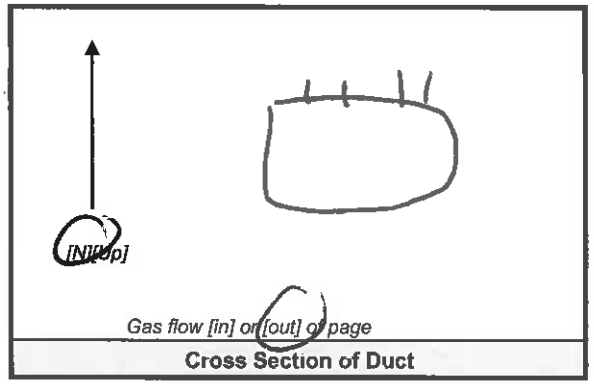
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page	1	of	2

Client	Wire
Plant	DB Wilson
Location	SCR #2
Date	7-19-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	Greater than -24
Ambient Temp. (^{0}F)	110
Start Time	10:03
Stop Time	11:57

Sample Train A Unspiked Trap

Trap ID	95031	Meter ID	R-20018	Yd	1.0070
Pre Leak Check	1.000		lpm @	17	(in. Hg)
Post Leak Check	1.000		lpm @	15	(in. Hg)

Sample Train B Spiked Trap

Trap ID	94223	Meter ID	R-20018	Yd	.9985
Pre Leak Check	1.000		lpm @	17	(in. Hg)
Post Leak Check	1.000		lpm @	15	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
3.75	.5	1.77	~~405~~	105	7	TS 330
7.5	.5	3.47	~~105~~	105	7	TS 332
11.25	.5	~~5.04~~	332	107	7	33
15	.5	~~5.04~~	332	108	7	VO 7.06
18.75	.5	8.45	330	108	7	
22.5	.5	10.12	332	112	7	
26.25	.5	11.72	332	115	7	
30	.5	13.52	330	116	7	
33.75	.5	15.36	332	117	7	
37.5	.5	17.16	332	119	7	
41.25	.5	18.90	331	121	7	
45	.5	20.76	332	121	7	
Total		40.80	3982	1354		
Average			331.91	118.58		

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
3.75	.5	1.80	~~105~~	105	3	TS 330
7.5	.5	3.57	~~105~~	105	7	TS 332
11.25	.5	5.15	332	107	3	
15	.5	6.74	330	108	3	
18.75	.5	8.30	332	108	3	
22.5	.5	10.08	332	112	3	
26.25	.5	11.88	332	115	3	
30	.5	13.68	330	116	3	
33.75	.5	15.48	330	117	3	
37.5	.5	17.28	332	119	3	
41.25	.5	19.00	332	121	3	
45	.5	20.65	330	121	3	
Total		41.30	3982	1354		
Average			331.91	118.58		

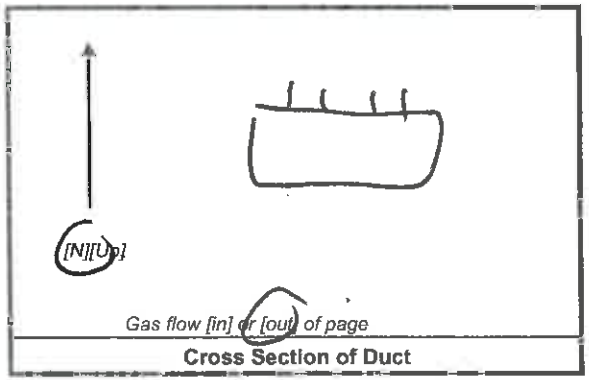
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page		of	

Client	WKE
Plant	DB Wilson
Location	SCR #2
Date	3-19-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-.24
Ambient Temp. (^{0}F)	110
Start Time	10:03
Stop Time	11:57

Sample Train A

Trap ID	95031	Meter ID	R-20018	Yd	1.0077
Pre Leak Check	1000	lpm @	17		(in. Hg)
Post Leak Check	1000	lpm @	15		(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
48.75	.5	32.54	330	122	8	
52.5	.5	34.34	330	120	8	
56.25	.5	36.12	333	123	8	
60	.5	37.92	330	123	8	
63.75	.5	39.72	330	124	8	
67.5	.5	31.50	332	124	8	
71.25	.5	33.19	330	125	8	
75	.5	35.13	332	125	8	
78.75	.5	36.81	330	126	8	
82.5	.5	37.80	330	126	8	
86.25	.5	39.61	330	126	8	
90	.5	40.82	330	126	8	
Total		40.82	3984	1492		
Average			331.9	118.56		

Sample Train B

Trap ID	94203	Meter ID	R-20018	Yd	1.0085
Pre Leak Check	1000	lpm @	10		(in. Hg)
Post Leak Check	1000	lpm @	15		(in. Hg)

Min/Point 3.7 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
48.3	.5	22.89	332	122	8.3	
52.5	.5	24.69	333	122	3	
56.25	.5	25.89	332	123	3	
60	.5	30.55	332	123	3	00127.55
63.75	.5	29.35	330	124	3	
67.5	.5	31.15	332	124	3	
71.25	.5	32.95	332	125	3	
75	.5	34.75	332	125	3	
78.75	.5	36.55	332	126	3	
82.5	.5	37.88	332	126	3	
86.25	.5	39.62	332	126	3	
90	.5	41.36	332	126	3	
Total		~~40.82~~	3986	1492		
Average			331.91	118.58		

41.36

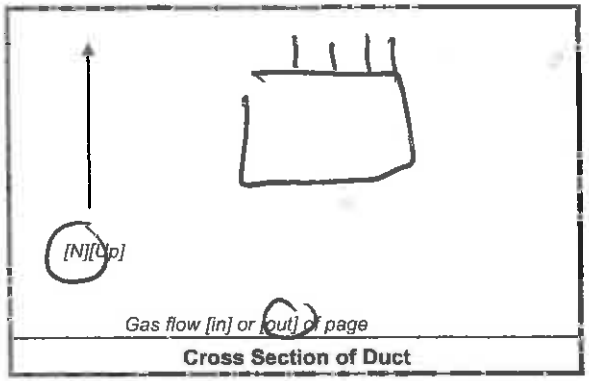
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Page	1	of	2

Client	WRE
Plant	DB Wilson
Location	SCR #2
Date	7-19-11
Project No.	3048
Meter Reader	C-S



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	6 tenths thru -24
Ambient Temp. (°F)	105
Start Time	13:01
Stop Time	19.54

Sample Train A

Trap ID	9431	Meter ID	R-20078	Yd	1.0078
Pre Leak Check	.000		ipm @	17	(in. Hg)
Post Leak Check	.000		ipm @	15	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
3.75	.5	1.69	315	108	6	
7.5	.5	3.49	315	109	6	
11.25	.5	5.29	315	110	7	
15	.5	7.11	315	113	7	
18.75	.5	8.61	315	116	7	
22.5	.5	10.39	315	116	7	
26.25	.5	12.19	315	118	7	
30	.5	13.99	315	121	7	
33.75	.5	15.65	315	123	7	
37.5	.5	17.03	315	124	7	
41.25	.5	18.83	315	124	7	
45	.5	20.61	315	126	7	
Total		40.30	3780	1410		
Average			315	117.5		

Sample Train B

Trap ID	9430	Meter ID	R-20078	Yd	1.0085
Pre Leak Check	.000		lpm @	16	(in. Hg)
Post Leak Check	.000		lpm @	15	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
3.75	.5	1.72	315	108	3	
7.5	.5	3.72	315	108	3	
11.25	.5	5.20	315	110	3	
15	.5	7.08	315	113	3	
18.75	.5	8.82	315	116	3	
22.5	.5	10.58	315	116	3	
26.25	.5	12.34	315	118	3	
30	.5	14.14	315	121	3	
33.75	.5	15.49	315	123	3	
37.5	.5	17.29	315	124	3	
41.25	.5	19.09	315	124	3	
45	.5	20.87	315	128	3	
Total		42.41	3780	1410		
Average			315	117.5		

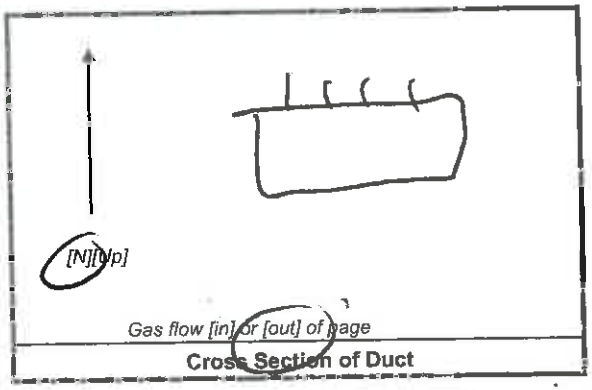
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Page 2 of 2

Client	WPE
Plant	DB Wilson
Location	SCR #2
Date	2-19-11
Project No.	3648
Meter Reader	CS



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	Greater than -24
Ambient Temp. (°F)	105
Start Time	13:01
Stop Time	14:54

Sample Train A

Trap ID	9431?	Meter ID	K-20016	Yd	1.0070
Pre Leak Check	1000		lpm @	17	(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48.75	1.5	22.31	315	128	8	
52.5	.5	24.51	315	129	8	
56.25	.5	26.09	315	129	8	
60	.5	28.09	315	129	8	
63.75	1.5	29.76	315	129	8	
67.5	1.5	31.56	315	130	8	
71.25	.5	33.36	315	132	8	
75	1.5	35.16	315	132	8	
78.75	.5	36.96	315	133	8	
82.5	1.5	38.76	315	133	8	
86.25	.5	40.55	315	133	8	
90	.5	~~1280~~	315	133	8	
Total		42.30	3780	1570		
Average			315	129.16		

Sample Train B

Trap ID	9430	Meter ID	K-20016	Yd	1.9965
Pre Leak Check	1000		lpm @	16	(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48.75	1.5	22.67	315	128	3	
52.5	.5	24.62	315	129	3	
56.25	1.5	26.41	315	129	3	
60	.5	28.16	315	129	3	
63.75	.5	29.87	315	129	3	
67.50	.5	31.67	315	130	3	
71.25	1.5	33.47	315	132	3	
75	.5	35.27	315	132	3	
78.75	1.5	37.07	315	133	3	
82.5	.5	38.87	315	133	3	
86.25	.5	40.90	315	133	3	
90	.5	~~42.41~~	315	133	3	
Total		42.41	~~3780~~	~~1570~~		
Average			315	129.16		

AIRTECH ENVIRONMENTAL SERVICES INC.

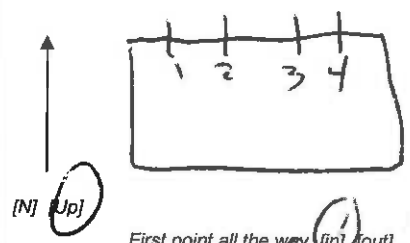
General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 4 **METHOD NO.** 5/3/202

Page 1 of 3

Client	Big Rivers						
Plant	Wilson KY						
Location	Unit 3						
Date	7/19/11	Project No.					
Meter Operator	DR						
Probe Operator	JL						
Meter ID	M10	Yd	1.0092	Pitot Cp	.84		
ΔH@	1.819	Kf	2.49	Leak check	V		
Pre Leak Check	.000	[cfm] [lpm] @	20	(inHg)			
Post Leak Check	.000	[cfm] [lpm] @	20	(inHg)			



Cross Section of Duct

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	85	Silica gel (g)	
Static (inH2O)	-16.5	Total Vlc	
Probe ID	AES-13	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12193		
Train ID	13	Train Type	IMP
Duct Dim. (in)	13.6x13.6	Port Lngth (in)	43"
Start Time	7:03	Stop Time	8:39

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 406.34	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-1	3.25	.36	.90	410.16	342	320	320	60	95	91	6	71		
2	6.5	.38	.95	411.80	342	320	320	60	96	91	6	71		
3	9.75	.40	1.0	413.71	336	320	320	60	97	92	6	71		
4	13	.42	1.1	415.39	339	324	320	61	96	93	6	71		
5	16.25	.45	1.1	417.25	348	323	321	61	98	94	6	71		
6	19.5	.41	1.0	419.31	339	321	321	61	99	94	6	71		
7	22.75	.38	.95	470.49	339	320	320	61	101	95	6	71		
3-1	26	.39	.95	422.33	340	320	320	61	101	96	6	71		
2	29.25	.41	1.0	424.41	336	320	320	61	102	97	6	72		
3	32.50	.41	1.0	426.29	334	321	320	62	103	98	6	72		
4	35.75	.43	1.1	428.46	340	320	320	62	103	99	6	72		
5	39	.44	1.1	430.11	334	320	321	62	103	99	6	72		
Total		4.994	14.45	52.19	9497				2889	2742				
Average		.1332	1.017		334.179				100.556					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

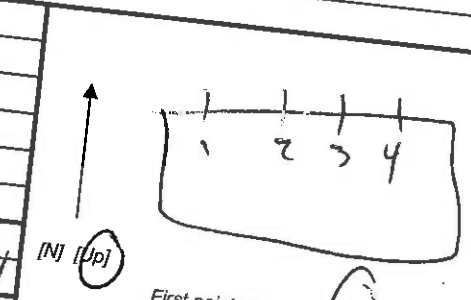
TESTING TYPE: _____

RUN NO. 4

METHOD NO. 5/202

Page 2 of 3

Client	Big Rivers				
Plant	Owensboro, KY				
Location	ESP 3				
Date	7/19/11	Project No.			
Meter Operator	MC				
Probe Operator	SL				
Meter ID	M-10	Yd	1.009	Pitot Cp	.84
ΔH@	1.619	Kf	2.49	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	20	(inHg)	
Post Leak Check	.000	[cfm] [lpm] @	20	(inHg)	



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	65	Silica gel (g)	
Static (inH_2O)	-.05	Total Vlc	
Probe ID	AE5-B	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12193		
Train ID	IB3	Train Type	IMP
Duct Dim. (in)	136x136	Port Lngth (in)	93
Start Time	7:05	Stop Time	8:37

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 406.324	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
3-6	42.25	.40	1.0	432.00	340	320	320							
7	45.5	.34	.85	433.71	344	320	320	62	103	96	6	72		
2-1	48.75	.32	.77	435.76	340	320	320	62	104	99	6	72		
2	52	.31	.77	437.81	336	320	320	61	104	99	6	72		
3	55.25	.41	1.0	439.73	334	320	320	61	104	99	6	72		
4	58.5	.43	1.1	441.53	340	321	320	61	104	99	6	72		
5	61.75	.44	1.1	443.2	334	321	320	61	104	99	6	72		
6	65	.40	1.0	445.26	336	320	320	60	105	100	6	72		
7	68.25	.36	.95	447.13	336	320	320	60	105	100	6	72		
4-1	71.5	.39	.97	448.76	334	320	320	60	106	100	6	72		
2	74.75	.41	1.0	450.16	336	320	320	60	105	101	6	72		
3	78	.43	1.1	451.66	340	320	321	61	104	101	6	73		
Total		26.44	52.15	9497					104	102	6	73		
Average		.3384	1.017	331.1ft					106	101	6	73		
									28869	27417				
									100.556					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

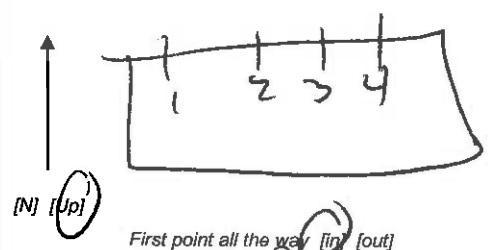
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 4 **METHOD NO.** 503/102 **Page** 3 **of** 3

Client	Big Rivers						
Plant	Owensboro KY						
Location	Reg 3						
Date	7/19/11	Project No.					
Meter Operator	JWR						
Probe Operator	SL						
Meter ID	M-10	Yd	1.009	Pitot Cp	.84		
ΔH@	1.419	Kf	2.49	Leak check	✓		
Pre Leak Check	.000	[cfm] [lpm] @		20	(inHg)		
Post Leak Check	.000	[cfm] [lpm] @		20	(inHg)		



Cross Section of Duct

Barometric (inHg)	29.36	Water [ml] [g]	
Ambient Temp (°F)	85	Silica gel (g)	
Static (inH_2O)	-16.5	Total Vlc	
Probe ID	AE5-B1	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12193		
Train ID	IB	Train Type	IMP
Duct Dim. (in)		Port Lngth (in)	
Start Time	7:53	Stop Time	8:39

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				460.32										
4	61.25	.44	1.1	454.63	343	320	320	61	104	102	6	73		
5	64.5	.45	1.1	456.90	340	320	320	61	104	102	6	73		
6	67.75	.42	1.1	454.53	339	320	320	61	103	102	6	73		
7	91	.40	1.0	460.52	340	320	320	61	104	102	6	73		
Total		17.44	28.48	62.19	1361				208.9	734.2				
Average		.6336	1.017		339.17				100.556					

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

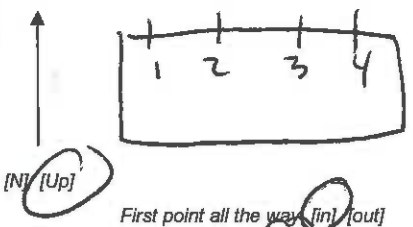
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. R5 **METHOD NO.** 5B/2a **Page** 1 **of** 3

Client	Big Rivers						Barometric (inHg)	29.86	Water [ml] [g]	
Plant	Coleman KY						Ambient Temp (°F)	110	Silica gel (g)	
Location	ESP 3						Static (inH_2O)	-19.5	Total Vlc	
Date	7/19/11	Project No.					Probe ID	AES-13-1	Liner Type	TFE
Meter Operator	JDL						Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	SL						Filter ID	1461		
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		Train ID		Train Type	IMP
ΔH@	1.819	Kf	2.52	Leak check	✓		Duct Dim. (in)	13'6"x13'6"	Port Lngth (in)	13
Pre Leak Check	.000	[cfm] [lpm] @	20	(inHg)						
Post Leak Check	.000	[cfm] [lpm] @	13	(inHg)			Start Time	10:03	Stop Time	11:57



Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				470.11		320	320							
1-1	3.25	.38	.96	472.09	344	320	320	59	120	120	6	70		
2	6.50	.39	.98	473.78	346	321	321	59	122	120	6	70		
3	9.75	.41	1.0	475.49	346	321	321	59	122	120	6	70		
4	13	.43	1.1	477.53	345	320	320	59	123	120	6	70		
5	16.25	.45	1.1	479.66	350	320	320	59	123	120	6	70		
6	19.5	.41	1.0	481.50	349	320	320	59	123	121	6	70		
7	22.75	.36	.96	483.42	350	320	321	59	123	121	6	70		
2-1	26	.39	.98	485.11	351	320	320	60	124	121	6	70		
2	29.25	.41	1.0	487.36	352	320	320	60	124	121	6	70		
3	32.5	.43	1.1	489.52	354	320	320	60	125	121	6	71		
4	35.75	.44	1.1	490.63	350	321	320	60	125	121	6	71		
5	39	.45	1.1	492.40	352	320	320	60	126	124	6	71		
Total														
Average														

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

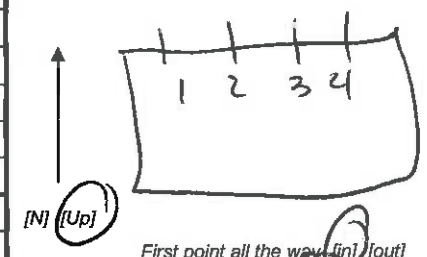
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 4 S **METHOD NO.** 5B/202 Page 2 of 3

Client	Big Rivers						
Plant	Owensboro, Ky						
Location	ESP 3						
Date	7/19/11	Project No.					
Meter Operator	MC						
Probe Operator	SL						
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		
ΔH@	1.819	Kf	2.52	Leak check	U		
Pre Leak Check	.006	[cfm] [lpm] @	20	(inHg)			
Post Leak Check		[cfm] [lpm] @		(inHg)			



Cross Section of Duct

Barometric (inHg)	29.56	Water [ml] [g]	
Ambient Temp (°F)	110	Silica gel (g)	
Static (inH2O)	-19.5	Total Vlc	
Probe ID	AES-13-1	Liner Type	TFE
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	12161		
Train ID	ESP3	Train Type	IMP
Duct Dim. (in)	13'6"	Port Lngth (in)	
Start Time	10:03	Stop Time	11:57

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 470.11	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	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	494.63	350	320	320	60	126	121	6	71		
7	45.5	.37	.93	496.74	351	320	320	66	126	122	6	71		
3-1	48.75	.34	.96	498.50	356	320	321	60	126	122	6	71		
2	52	.41	1.0	500.36	352	320	320	61	126	122	6	72		
3	55.25	.42	1.1	502.84	350	320	320	61	126	123	6	72		
4	58.5	.44	1.1	504.33	350	320	320	61	127	123	6	72		
5	61.75	.45	1.1	506.02	349	320	321	62	127	123	6	72		
6	65	.41	1.0	507.89	355	320	320	62	127	123	6	72		
7	68.25	.39	.98	509.82	351	320	320	62	127	124	6	72		
4-1	71.5	.37	.93	511.52	350	320	320	62	127	124	6	73		
2	74.75	.39	.94	513.60	352	321	320	62	127	124	6	73		
3	78	.40	1.0	515.49	352	320	320	62	126	125	6	73		
Total														
Average														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

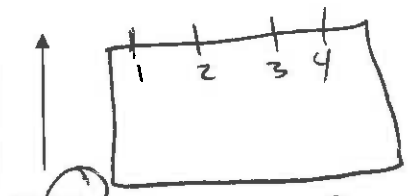
General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 2S **METHOD NO.** SB/202

Page 3 of 3

Client	Big Rivers					Barometric (inHg)	29.56	Water [ml] [g]	
Plant	Owensboro, KY					Ambient Temp (°F)	110	Silica gel (g)	
Location	ESP 3					Static (inH_2O)	-19.5	Total Vlc	
Date	7/29/11	Project No				Probe ID	BES-13-1	Liner Type	TFE
Meter Operator	MR					Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	JC					Filter ID	12161		
Meter ID	M-D	Yd	1.009	Pitot Cp	.84	Train ID	IB	Train Type	IMP
ΔH@	1.619	Kf	2.52	Leak check	✓	Duct Dim (in)	13'6"	Port Lngth (in)	
Pre Leak Check	.000	[cfm] [lpm] @		20	(inHg)				
Post Leak Check		[cfm] [lpm] @			(inHg)	Start Time	10:03	Stop Time	11:57



Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 470.11	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-4	81.25	.43	1.1	517.36	353	320	320	62	124	125	6	73		
5	84.5	.45	1.1	519.42	352	320	320	62	124	125	6	73		
6	87.75	.42	1.1	521.22	352	320	320	63	126	125	6	73		
7	91	.340	.96	523.05	353	320	320	63	126	125	6	73		
Total		17.9114	26.720	52.94	9414				3512	3423				
Average		.6397	1.026		350.69				123.69					

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

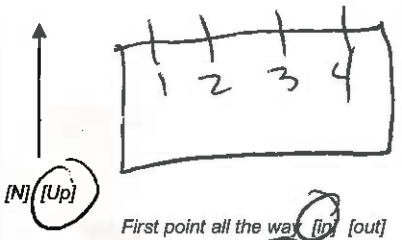
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202 **Page** 1 **of** 3

Client	Big Rivers			Barometric (inHg)	29.56	Water [ml] [g]	
Plant	Owensboro, KY			Ambient Temp (°F)	110	Silica gel (g)	
Location	BGS 3			Static (inH2O)	-19.5	Total Vlc	
Date	7/19/11	Project No.		Probe ID	AE5-13-1	Liner Type	TFE
Meter Operator	RL			Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	SL			Filter ID	12166		
Meter ID	M10	Yd	1.009	Pitot Cp	.84	Train ID	13	Train Type	Imp
ΔH@	1.68	Kf	2.60	Leak check	✓	Duct Dim. (in)	13'6"	Port Lngth (in)	
Pre Leak Check	0.00	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	0.00	[cfm] [lpm] @	15	(inHg)		Start Time	13:01	Stop Time	14:54



Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 534.00	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
3-1	3.25	.39	1.0	535.88	352	320	320	59	126	126	6	70		
2	6.5	.40	1.0	537.63	353	321	320	59	129	126	6	70		
3	9.75	.42	1.1	539.64	354	320	320	60	129	127	6	76		
4	13	.44	1.1	541.62	357	320	321	60	130	127	6	76		
5	16.25	.45	1.2	543.40	356	320	320	60	129	127	6	70		
6	19.5	.41	1.1	546.51	356	321	321	60	129	127	6	71		
7	22.75	.39	.99	547.39	357	321	321	60	130	127	6	71		
2-1	26	.38	.99	549.36	356	320	320	60	130	127	6	71		
2	29.25	.40	1.0	551.28	354	320	320	61	130	127	6	71		
3	32.5	.41	1.1	553.01	355	320	320	61	130	127	6	71		
4	35.75	.45	1.2	554.93	356	320	320	61	130	127	6	71		
5	39	.45	1.2	556.80	355	320	320	61	131	127	6	71		
Total		17.9491	29.79	53.36	9933				3559	3568				
Average		.6409	1.064		354.75				129.053					

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

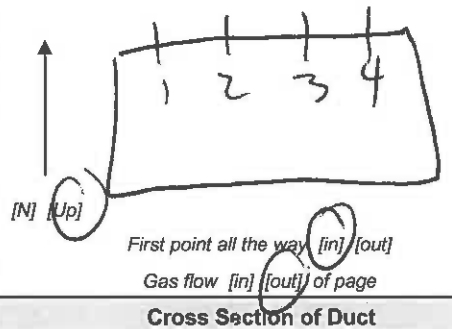
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202 **Page** 2 **of** 3

Client	Big Rivers					Barometric (inHg)	29.56	Water [ml] [g]	
Plant	Owensboro, KY					Ambient Temp (°F)	110	Silica gel (g)	
Location	RSG 3					Static (inH_2O)	-19.5	Total Vlc	
Date	7/19/11	Project No.				Probe ID	AES-131	Liner Type	TFE
Meter Operator	MR					Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	SL					Filter ID	RU84		
Meter ID	M-10	Yd	1.009	Pitot Cp	.84	Train ID	IB	Train Type	Imp
ΔH@	1.819	Kf	2.60	Leak check	✓	Duct Dim. (in)	13'6"	Port Lngth (in)	
Pre Leak Check	.006	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)		Start Time	13:01	Stop Time	14:54



Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 531.00	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
2-6	42.25	.41	1.1	538.70	352	320	320	61	131	127	6	71		
7	45.5	.37	.96	560.34	353	320	320	61	131	127	6	71		
1-9	48.75	.37	.96	582.41	356	324	320	62	131	126	6	71		
1-2	52	.36	.99	564.83	354	320	320	62	131	126	6	71		
3	55.25	.40	1.0	586.40	352	320	320	62	131	126	6	71		
4	58.5	.43	1.1	548.19	357	326	324	62	131	126	6	71		
5	61.75	.44	1.1	570.34	355	320	320	62	131	128	6	71		
6	65	.41	1.1	592.36	352	320	320	63	131	124	6	72		
7	68.25	.40	1.0	571.01	356	320	320	63	132	124	6	72		
4-1	71.5	.39	1.0	575.90	353	321	320	64	132	124	6	72		
2	74.75	.41	1.1	577.79	352	320	320	64	132	124	6	72		
3	78	.42	1.1	579.74	354	320	320	64	132	124	6	72		
Total		17.9449	21.71	5336	9933				3699	3564				
Average		.6409	1.062		354.75				129.053					

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

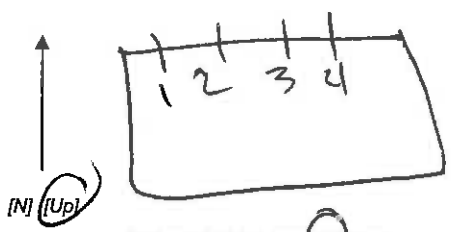
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202 **Page** 3 **of** 3

Client	Big Rivers					Barometric (inHg)	27.56	Water [ml] [g]	
Plant	Owensboro, KY					Ambient Temp (°F)	110	Silica gel (g)	
Location	Pkg 3					Static (inH_2O)	-1.5	Total Vlc	
Date	7/19/11	Project No.				Probe ID	AE5-13-1	Liner Type	TFE
Meter Operator	MK					Nozzle ID	.250	Nozzle Dia (in)	.250
Probe Operator	JL					Filter ID	12146		
Meter ID	A-10	Yd	1.009	Pitot Cp	.84	Train ID	13	Train Type	Imp
ΔH@	1.619	Kf	.260	Leak check	✓	Duct Dim. (in)	13' 6"	Port Lngth (in)	
Pre Leak Check	.000	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)		Start Time	13:01	Stop Time	14:54



Cross Section of Duct

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 534.00	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-4	81.75	.43	1.1	581.85	356	320	321	68	132	128	6	72		
5	84.5	.44	1.1	583.50	354	320	320	66	132	128	6	73		
6	87.75	.43	1.1	585.63	355	320	320	66	132	128	6	73		
7	91	.40	1.0	587.36	354	320	320	66	132	128	6	73		
Total		17.9415	29.71	53.36	9937				3659	3568				
Average		.6409	1.061		354.178				130.6534					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 36-12

Page ___ of ___

Client	Pierces
Plant	Dahl
Location	ESP #3
Date	3/26/14
Operator	BL

Run No. 4

Method No. 5B/26

Train ID

Filter No.

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	527.7	715.7		-50 DI Rinse
Impinger No. 2	DI	722.0	681.8		
Impinger No. 3	Empty	606.0	655.1		
Impinger No. 4	Silica	897.5	926.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 5

Method No. 5B/26

Train ID

Filter No.

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	460.5	609.8		-50 DI Rinse
Impinger No. 2	DI	642.9	649.5		
Impinger No. 3	Empty	632.4	650.3		
Impinger No. 4	Silica	893.3	934.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 6

Method No. 5B/26.2

Train ID

Filter No.

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	591.0	757	-50 DI	
Impinger No. 2	DI	693.0	581		
Impinger No. 3	Empty	633.8	656		
Impinger No. 4	Silica	926.3	952		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

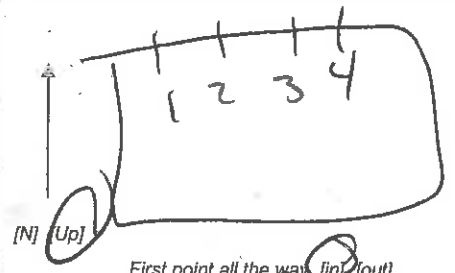
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 1 | METHOD NO. 26A | Page 1 of 1

Client	Big Rivers						
Plant	Owensboro, Ky						
Location	Exp. 3						
Date	4/20/11	Project No.					
Meter Operator	MK						
Probe Operator	M						
Meter ID	M-14	Yd	1.0067	Pitot Cp	.84		
ΔH@	1.852	Kf	2.16	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] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID	AES-6-4	Liner Type	Glass
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	N/A		
Train ID	13	Train Type	Imp
Duct Dim. (in)	136"	Port Length (in)	
Start Time	8:34	Stop Time	10:39

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 265.00	Stack Temp (°F)	Probe Temp (°F) 247	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	10		1.6	290.21	334	246	251	58	99	99	6	70		
2	20			297.42	333	240	250	58	104	99	6	70		
3	30			304.63	334	248	248	58	109	101	6	70		
4	40			311.84	334	252	252	59	113	104	6	70		
5	50			319.09	334	250	250	59	115	105	6	71		
6	60			326.65	333	251	251	59	118	109	6	71		
7	70			334.04	336	250	248	60	120	112	6	71		
8	80			341.36	334	251	249	60	123	114	6	71		
9	90			348.96	335	250	249	60	127	116	6	71		
10	100			356.25	334	250	250	61	126	117	6	72		
11	110			363.64	336	249	248	61	126	116	6	72		
12	120		↓	371.04	335	248	251	61	126	118	6	72		
Total				66.00	4013				1406	1312				
Average					334.41				117.25					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

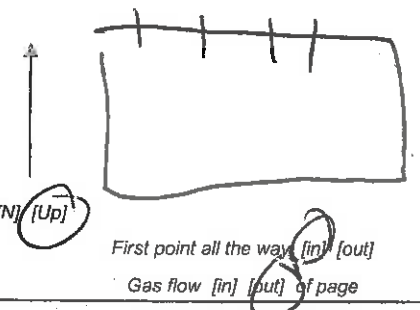
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl Hg-Cl2

RUN NO. 3S METHOD NO. 26A Page 1 of 1

Client	Big Rivers					
Plant	Owensboro, Ky					
Location	ESP 3					
Date	7/20/11	Project No.				
Meter Operator	NR					
Probe Operator	M					
Meter ID	M-14	Yd	1.005	Pitot Cp	.84	
ΔH@	1.802	Kf	—	Leak check	✓	
Pre Leak Check	none	[cfm] [lpm] @		15	(inHg)	
Post Leak Check	none	[cfm] [lpm] @		15	(inHg)	



Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	115	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID	ABS-64	Liner Type	Glass
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	NA		
Train ID	2B2	Train Type	DMP
Duct Dim. (in)	13'6"	Port Length (in)	
Start Time	12:05	Stop Time	14:05

Traverse Point	Min/Point 20 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				388.50		250	250							
1	10		1.80	396.01	340	250	250	58	118	114	6	70		
2	20			403.46	341	250	250	58	119	114	6	70		
3	30			411.12	340	250	250	59	120	115	6	70		
4	40			418.63	342	250	250	59	122	115	6	70		
5	50			426.70	343	250	250	60	125	115	6	70		
6	60			433.68	342	250	250	60	124	113	6	71		
7	70			440.46	340	250	250	60	123	115	6	71		
8	80			447.48	341	250	250	61	124	115	6	71		
9	90			455.75	343	250	250	61	122	114	6	71		
10	100			462.64	340	250	250	62	120	114	6	71		
11	110			470.01	341	250	250	62	120	114	6	71		
12	120			477.34	342	250	250	62	120	114	6	71		
Total				88.66	4092				1457	1374				
Average					341				117.958					

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

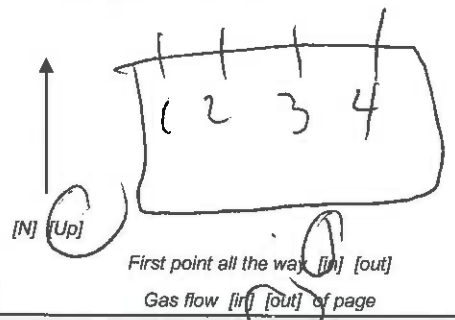
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. 3.6 **METHOD NO.** 26A **Page** 1 **of** 1

Client	Big Rivers				
Plant	Owensboro, Ky				
Location	ESP-3				
Date	7/10/14	Project No.			
Meter Operator	MC				
Probe Operator	M				
Meter ID	M14	Yd	1.0088	Pitot Cp	.84
ΔH@	1.802	Kf	—	Leak check	✓
Pre Leak Check	.000	[cfm] [lpm] @	15	(inHg)	
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)	



Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	116	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID	AEE-6-4	Liner Type	Glass
Nozzle ID	.250	Nozzle Dia (in)	.250
Filter ID	N/A		
Train ID	IB 9	Train Type	Imp
Duct Dim. (in)	13' 6"	Port Lngth (in)	
Start Time	15:20	Stop Time	17:23

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] 489.74	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		1.8	497.34	344	250	250	59	121	115	6	70		
2	20			504.93	347	250	250	59	127	120	6	70		
3	30			512.73	344	250	250	60	126	122	6	70		
4	40			520.23	343	250	250	60	124	122	6	70		
5	50			528.14	342	250	250	60	124	122	6	70		
6	60			535.32	343	249	249	61	129	122	6	71		
7	70			542.92	345	250	250	61	129	122	6	71		
8	80			550.57	344	249	249	61	129	122	6	71		
9	90			558.10	345	250	250	62	130	122	6	71		
10	100			565.62	347	250	250	62	132	122	6	71		
11	110			573.29	344	250	250	63	131	122	6	71		
12	120			580.76	343	250	250	63	130	122	6	71		
Total				91.02	422				1643	1455				
Average					343.5				124.91					

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 364

Page | of

Client	Big Rivers
Plant	DB Wilson
Location	ESP 3
Date	2/26/11
Operator	BC

Run No. 1
Method No. 26

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	666.0	709		-50mL Rinse
Impinger No. 2	H_2SO_4	617.1	754		
Impinger No. 3	Empty	590.2	602		
Impinger No. 4	Silica	893.5	933		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 2
Method No. 26

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	605 ~~699~~	~~733~~		605 -50
Impinger No. 2	H_2SO_4	691	~~6~~ 740		
Impinger No. 3	Empty	656	672		
Impinger No. 4	Silica	946	977		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 3
Method No. 26

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	~~677~~ 699	782		-50
Impinger No. 2	H_2SO_4	667	715		
Impinger No. 3	Empty	594	620		
Impinger No. 4	Silica	934	966		
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. B 4 METHOD NO. 29

Page 1 of 3

Client	Big Rivers						
Plant	D.B. Wilson						
Location	ESP 3						
Date	7/20/11	Project No.	3648				
Meter Operator	CLT						
Probe Operator							
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		
ΔH@	1.819	Kf	3482	Leak check	✓		
Pre Leak Check	0.000	(cfm) [lpm] @		14	(inHg)		
Post Leak Check	0.000	(cfm) [lpm] @		11	(inHg)		

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	99°	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID		Liner Type	TFE
Nozzle ID	.27	Nozzle Dia (in)	.270
Filter ID	NA	—	—
Train ID	TB 17	Train Type	Imp
Duct Dim. (in)	~~156~~ 162" x 162"	Port Length (in)	43.0"
Start Time	0840	Stop Time	1046

589.625

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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
				589.625		248	248							
1	4.5	.42	1.2	592.58	340	250	251	65	103	101	6	N/A		
2	9	.45	1.5	595.65	347	250	252	58	105	103	6			
3	13.5	.45	1.5	598.40	348	250	252	56	105	102	6			
4	18	.54	1.8	602.15	348	251	250	58	107	103	7			
5	22.5	.59	2	605.68	350	250	249	60	109	104	7			
6	27	.44	1.5	608.75	352	250	250	61	111	108	6			
7	31.5	.47	1.6	611.9	352	250	250	63	112	108	6			
1	36	.45	1.7	615.4	346	250	250	65	114	108	6			
2	40.5	.45	1.5	618.5	347	250	252	62	114	110	6			
3	45	.54	1.8	622.14	348	252	252	59	115	112	7			
4	49.5	.6	2.1	625.89	349	250	251	57	116	114	8			
5	54	.6	2.1	629.52	350	250	250	56	117	115	8	↓		
Total	126	20.091	49.10	94.23	9764				3327	3218				
Average		0.718	1.75		348.71				116.675					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. B 4 METHOD NO. 29

Client	Ray Rivers					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	D.R. Wilson					Ambient Temp (°F)	99	Silica gel (g)	
Location	CSP3					Static (inH_2O)	-19.5	Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	TFE
Meter Operator	CLT					Nozzle ID	.27	Nozzle Dia (in)	.270
Probe Operator						Filter ID	NA	–	–
Meter ID	M-10	Yd	1.0071	Pitot Cp	.84	Train ID	IB17	Train Type	Imp
ΔH@	1.819	Kf	3.42	Leak check	✓	Duct Dim. (in)	~~13~~ 6	Port Length (in)	43.0"
Pre Leak Check		[cfm] [lpm] @		(inHg)			162" x 162"		
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time	0840	Stop Time	1046

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	58.5	.55	1.9	633.28	351	251	250	55	120	115	7			
7	63	.55	1.9	636.8	353	250	252	55	121	115	7			
1	67.5	.53	1.8	640.05	349	248	249	56	122	117	7			
2	72	.54	1.8	643.6	349	249	253	56	122	117	7			
3	76.5	.5	1.7	646.69	349	251	244	56	124	119	6			
4	81	.45	1.5	649.6	348	250	244	56	124	119	6			
5	85.5	.56	1.9	653.22	348	249	248	58	125	120	7			
6	90	.55	1.9	656.73	347	250	252	59	126	121	7			
7	94.5	.5	1.7	659.9	346	251	253	60	127	122	6			
1	99	.48	1.6	663.21	349	250	250	60	127	122	6			
2	103.5	.53	1.8	666.60	350	250	253	62	127	123	7			
3	108	.53	1.8	670.07	350	250	242	63	127	123	7			
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

CO_2 12
O_2 8
Moisture 5

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. ~~3~~ 4 METHOD NO. 29 Page 3 of 3

Client	Big Rivers			Barometric (inHg)	29.50	Water [ml] [g]	
Plant	D.B. Wilson			Ambient Temp (°F)	99	Silica gel (g)	
Location	ESP 3			Static (inH_2O)	-19.5	Total Vlc	
Date	7/20/11	Project No.	3646	Probe ID		Liner Type	TFE
Meter Operator	CLT			Nozzle ID	.27	Nozzle Dia (in)	.270
Probe Operator				Filter ID	NA	–	–
Meter ID	1.819	Yd		Train ID	1B17	Train Type	Imp
ΔH@		Kf		Duct Dim. (in)	~~13'6"~~ 162" x 162"	Port Length (in)	45 cm
Pre Leak Check	0.000	[cfm] [lpm] @	(inHg)	Start Time	0840	Stop Time	1046
Post Leak Check	0.000	[cfm] [lpm] @	(inHg)				

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l]	Stack Temp (°F)	Probe Temp (°F) 248	Filter Temp (°F) 248	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4	112.5	.5	1.7	673.921	352	250	242	64	127	124	7			
5	111	.55	1.9	676.95	350	250	249	65	127	124	7			
6	121.5	.58	2	680.51	348	249	249	66	128	125	8			
7	126	.5	1.7	687.850	348	250	252	67	126	124	7			
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. 5 METHOD NO. 29 Page 1 of 3

Client	Big Rivers					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)	99	Silica gel (g)	
Location	ESP 3					Static (inH2O)	-19.5	Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	TFE
Meter Operator	CLT					Nozzle ID	.27	Nozzle Dia (in)	.270
Probe Operator						Filter ID	NA	-	-
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84	Train ID	IB	Train Type	Imp
ΔH@	1.819	Kf	3.42	Leak check	✓	Duct Dim. (in)	13'6"	Port Length (in)	43.0
Pre Leak Check	0.003	cfm [lpm] @	14	(inHg)			162" x 162"		
Post Leak Check	0.00	cfm [lpm] @	12	(inHg)		Start Time	1205	Stop Time	1414

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft³) [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
				684.568		250	250							
1	4.5	.45	1.5	687.58	352	250	265	66	124	124	5			
2	9	.44	1.5	690.67	353	250	246	64	122	123	5			
3	13.5	.42	1.4	693.67	352	250	240	63	123	124	5			
4	18	.42	1.4	696.69	351	250	245	64	123	123	5			
5	22.5	.47	1.6	699.96	350	250	249	62	123	124	5			
6	27	.5	1.7	703.26	351	249	251	60	123	123	5			
7	31.5	.4	1.4	706.24	350	250	256	59	127	124	5			
1	36	.47	1.6	709.46	351	250	251	60	125	124	5			
2	40.5	.43	1.5	712.59	353	250	249	61	126	125	5			
3	45	.45	1.7	715.40	353	251	250	61	126	124	6			
4	49.5	.45	1.5	719.03	354	251	251	60	127	125	5			
5	54	.6	2.1	722.75	356	250	248	60	126	124	6			
Total	126	19.051	44.30	89.46	9941				3480	3447				
Average		0.680	1.50		355.04				123.69					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 5 METHOD NO. 29

Page 2 of 3

Client	Ray Rivers						
Plant	D.B. Wilson						
Location	ESP 3						
Date	7/20/11	Project No.	3646				
Meter Operator	CLT						
Probe Operator							
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		
ΔH@	1.819	Kf	342	Leak check	✓		
Pre Leak Check		[cfm] [lpm] @		(inHg)			
Post Leak Check		[cfm] [lpm] @		(inHg)			

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	99	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID		Liner Type	TFE
Nozzle ID	.27	Nozzle Dia (in)	.270
Filter ID	NA	–	–
Train ID	18	Train Type	Imp
Duct Dim. (in)	~~156~~ 162" x 162"	Port Lngth (in)	45.0
Start Time		Stop Time	

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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	58.5	.52	1.8	726.20	358	249	248	58	126	125	6			
7	63	.5	1.7	729	356	249	249	57	124	123	6			
1	67.5	.44	1.5	732.64	350	249	250	56	124	123	5			
2	72	.48	1.6	738.82	356	251	251	55	123	122	5			
3	76.5	.45	1.5	738.93	359	251	251	55	124	123	5			
4	81	.47	1.6	742.2	360	250	249	55	124	123	5			
5	85.5	.52	1.8	745.58	360	250	247	55	123	122	6			
6	90	.45	1.5	748.7	361	250	251	58	123	122	5			
7	94.5	.45	1.5	751.77	361	250	250	59	122	121	5			
1	99	.41	1.4	754.78	359	249	251	56	126	121	5			
2	103.5	.5	1.7	758.10	355	251	251	57	128	122	6			
3	108	.44	1.5	761.24	357	251	251	57	124	121	5			
Total														
Average	WTF													

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 05 METHOD NO. 29 Page 3 of 3

Client	Big Rivers						
Plant	D.B. Wilson						
Location	ESP #3						
Date	7/20/11	Project No.	3648				
Meter Operator	CLT						
Probe Operator							
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		
ΔH@	1.819	Kf	3.42	Leak check	✓		
Pre Leak Check		[cfm] [lpm] @			(inHg)		
Post Leak Check		[cfm] [lpm] @			(inHg)		

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	99	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID		Liner Type	TFE
Nozzle ID	.27	Nozzle Dia (in)	.270
Filter ID	NA	-	-
Train ID	1B-	Train Type	Imp
Duct Dim. (in)	162" x 162"	Port Length (in)	43.0"
Start Time		Stop Time	

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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	.43	1.3	764.36	357	251	251	57	125	122	5			
5	117	.53	1.8	767.76	358	250	248	57	126	123	6			
6	121.5	.48	1.6	770.99	360	250	251	59	127	123	5			
7	126	.4	1.4	774.023	358	249	250	59	127	124	5			
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. 16 METHOD NO. 29

Page 1 of 3

Client	Big Rivers					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)	99	Silica gel (g)	
Location	ESP 3					Static (inH_2O)	-19.5	Total Vlc	
Date	7/20/11	Project No.	3498			Probe ID		Liner Type	TFE
Meter Operator	CLT					Nozzle ID	.27	Nozzle Dia (in)	.270
Probe Operator						Filter ID	NA	-	-
Meter ID	M-10	Yd	1.009	Pitot Cp	.84	Train ID	IB -	Train Type	Imp
ΔH@	1.819	Kf		Leak check	✓	Duct Dim. (in)	~~12' 6~~ 162" x 162"	Port Length (in)	43.0"
Pre Leak Check	0.005	[cfm] [lpm] @	13	(inHg)					
Post Leak Check	0.005	[cfm] [lpm] @	12	(inHg)		Start Time	1520	Stop Time	~~1646~~ 1730

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] ~~774.518~~	Stack Temp (°F)	Probe Temp (°F) ~~248~~	Filter Temp (°F) 245	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	4.5	.4	1.4	777.35	355	249	251	51	119	119	5			
2	9	.46	1.6	780.51	358	291	250	47	118	119	5			
3	13.5	.45	1.5	783.62	363	251	249	47	118	119	5			
4	18	.43	1.5	786.72	362	251	251	48	119	118	5			
5	22.5	.55	1.9	790.17	365	250	247	49	120	118	6			
6	27	.5	1.7	793.46	365	250	251	50	121	118	6			
7	31.5	.45	1.5	796.4	364	250	251	47	121	119	5			
1	36	.51	1.7	799.82	355	248	251	48	121	119	6			
2	40.5	.47	1.6	802.99	356	252	253	47	121	120	5			
3	45	.47	1.6	806.23	355	290	247	48	121	121	5			
4	49.5	.45	1.5	809.29	356	251	250	48	122	119	5			
5	54	.58	2	812.93	358	250	246	47	122	118	6			
Total	126	19.2178	45.0	89.96	9992				5347	3291				
Average		.68603	1.6071		356.86				118.54					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 16 METHOD NO. 29 Page 2 of 3

Client	Ray Rivers						
Plant	D.B. Wilson						
Location	ESP 3						
Date	7/20/11	Project No.	3642				
Meter Operator	CLT						
Probe Operator							
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84		
ΔH@	1.819	Kf		Leak check	✓		
Pre Leak Check		[cfm] [lpm] @			(inHg)		
Post Leak Check		[cfm] [lpm] @			(inHg)		

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	99	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID		Liner Type	TFE
Nozzle ID	.27	Nozzle Dia (in)	.270
Filter ID	NA	-	-
Train ID	HB	Train Type	Imp
Duct Dim. (in)	162" x 162"	Port Length (in)	43.0"
Start Time		Stop Time	

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l]	Stack Temp (°F)	Probe Temp (°F) 248	Filter Temp (°F) 248	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
6	58.5	.5	1.7	816.30	360	250	250	50	121	118	6			
7	63	.5	1.7	819.67	361	249	251	50	121	118	6			
1	67.5	.48	1.6	822.85	353	248	255	51	120	117	5			
2	72	.4	1.4	825.83	356	252	252	51	120	117	5			
3	76.5	.5	1.7	829.16	356	250	249	49	120	117	6			
4	81	.43	1.5	832.29	357	250	248	50	120	118	5			
5	85.5	.53	1.8	835.68	353	250	247	50	120	118	6			
6	90	.56	1.9	839.11	352	250	251	51	121	117	6			
7	94.5	.51	1.7	842.55	352	250	250	52	120	117	6			
1	99	.48	1.6	845.82	355	248	251	53	119	116	6			
2	103.5	.38	1.2	848.—	356	251	251	54	119	115	5			
3	108	.3	1	851.26	356	250	250	55	117	115	4			
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. 1 C6

METHOD NO. 29

Client	Big Rivers				
Plant	D.B. Wilson				
Location	ESP 3				
Date	7/20/11	Project No.	3648		
Meter Operator	CLT				
Probe Operator					
Meter ID	M-10	Yd	1.0091	Pitot Cp	.84
ΔH@	1.819	Kf		Leak check	✓
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	99	Silica gel (g)	
Static (inH_2O)	-19.5	Total Vlc	
Probe ID		Liner Type	TFE
Nozzle ID	.27	Nozzle Dia (in)	.270
Filter ID	NA	—	—
Train ID	IB-	Train Type	Imp
Duct Dim. (in)	162" x 162"	Port Length (in)	43.0"
Start Time		Stop Time	

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l]	Stack Temp (°F)	Probe Temp (°F) 248	Filter Temp (°F) 248	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4	112.5	.4	1.4	854.26	355	250	246	57	119	118	5			
5	117	.32	1.8	857.72	354	249	249	58	117	116	6			
6	121.5	.5	1.7	861.04	352	248	251	59	116	114	6			
7	126	.53	1.8	864.50	351	249	251	59	116	113	6			
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. [illegible]

Page | of

Client	Big Rivers
Plant	DB Wilson
Location	ESP-3
Date	7/[illegible]/11 Unit
Operator	B~

Run No. 4
Method No. 29
Train ID
Filter No.

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	531.7	~~695~~ 685		731 -50
Impinger No. 2	5% 10%	700.2	742		
Impinger No. 3	5% 10%	719.1	730		
Impinger No. 4	Empty	633.4	637		
Impinger No. 5	Silica	872.6	891		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 5
Method No. 29
Train ID
Filter No.

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	618	791		-50
Impinger No. 2	5% 10%	743	793		
Impinger No. 3	5% 10%	606	614		
Impinger No. 4	Empty	643	644		
Impinger No. 5	Silica	824	835		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No. 6
Method No. 29
Train ID
Filter No.

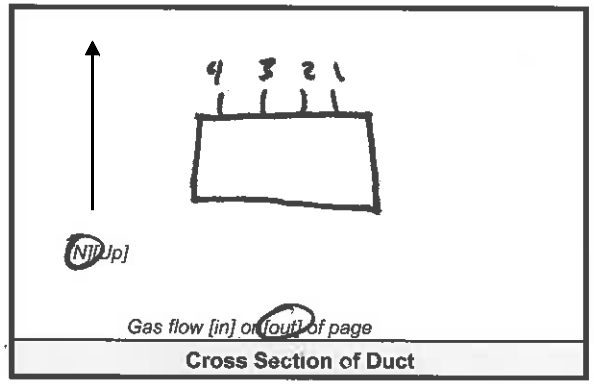
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	530	716		-50
Impinger No. 2	5% 10%	704	744		
Impinger No. 3	5% 10%	716	723		
Impinger No. 4	Empty	631	633		
Impinger No. 5	Silica	891	902		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weigh (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-11
Project No.	
Meter Reader	MH



Cross Section of Duct

Barometric (in. Hg)	29.5
Static (inH_2O)	-16.5
Ambient Temp. (^{0}F)	95
Start Time	7:03
Stop Time	9:37

Sample Train A Unspiked Trap

Trap ID	96147	Meter ID	25	Yd	0.9994
Pre Leak Check	0.00	lpm @	8	(in. Hg)	
Post Leak Check	0.00	lpm @	7	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94233	Meter ID	25	Yd	1.0017
Pre Leak Check	0.00	lpm @	5	(in. Hg)	
Post Leak Check	0.00	lpm @	10	(in. Hg)	

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
1-1	3.75	.3	1.44	342	96	5	
	7.5	.3	2.87	341	96	5	
2	11.25	.3	4.35	343	98	5	
	15	.3	5.69	341	100	5	
3	18.75	.3	7.26	344	103	5	
	22.5	.3	8.60	345	104	5	
4-1	26.25	.3	10.17	340	105	5	
	30	.3	11.56	341	109	5	
2	33.75	.3	12.75	341	113	5	
	47.5	.3	14.25	341	113	5	
3	41.25	.3	15.96	340	115	5	
	45	.3	17.20	343	117	5	
	Total						
	Average						

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
1-1	3.75	.3	1.37	342	95	1	
	7.5	.3	2.75	341	95	1	
2	11.25	.3	4.15	343	99	1	
	15	.3	5.50	341	99	1	
3	18.75	.3	6.79	344	105	1	
	22.5	.3	8.22	345	105	1	
4-1	26.25	.3	9.45	340	107	1	
	30	.3	10.96	341	110	1	
2	33.75	.3	12.48	341	114	1	
	47.5	.3	13.83	341	115	1	
3	41.25	.3	15.95	346	117	1	
	45	.3	16.31	343	117	1	
	Total						
	Average						

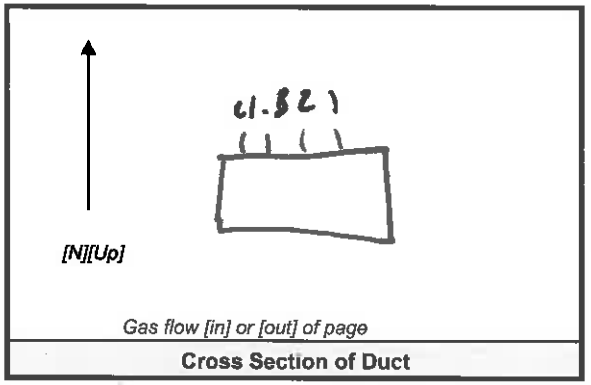
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Page	2	of	2

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-11
Project No.	
Meter Reader	MH



Cross Section of Duct

Barometric (in. Hg)	
Static (inH_2O)	-16.5
Ambient Temp. (^0F)	95
Start Time	7:03
Stop Time	

Sample Train A Unspiked Trap

Trap ID	94471	Meter ID	25	Yd	.9994
Pre Leak Check	0.00	lpm @	8	(in. Hg)	
Post Leak Check	0.00	lpm @	10	(in. Hg)	

Sample Train B Spiked Trap

Trap ID	94233	Meter ID	25	Yd	1.0017
Pre Leak Check	0.06	lpm @	5	(in. Hg)	
Post Leak Check	2.00	lpm @	15	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
3.75							
3.1	48.75	.3	18.65	340	118	5	
	52.5	.3	20.02	341	118	5	
2	56.25	.3	21.51	343	119	5	
	60	.3	23.11	343	119	5	
3	63.75	.3	24.69	345	120	5	
	67.5	.3	26.23	346	120	5	
2.0	71.25	.3	27.73	346	121	5	
	75	.3	29.41	345	123	5	
2	78.75	.3	30.51	344	125	5	
	82.5	.3	31.65	345	126	5	
3	86.25	.3	32.50	346	127	5	
	90	.3	34.31	345	127	5	
Total							
Average							

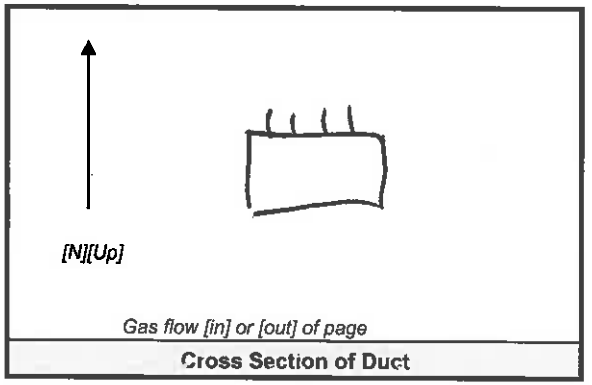
Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
3.75							
3.1	48.75	.3	17.67	340	115	1	
	52.5	.3	19.19	341	118	1	
2	56.25	.3	20.67	343	119	1	
	60	.3	21.74	343	120	1	
3	63.75	.3	23.12	344	120	1	
	67.5	.3	24.67	346	122	1	
2.4	71.25	.3	26.10	346	124	1	
	75	.3	27.53	345	125	1	
2	78.75	.3	29.84	341	125	1	
	82.5	.3	30.04	345	126	1	
3	86.25	.3	31.36	346	127	1	
	90	.3	32.63	345	126	1	
Total							
Average							

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. ~~4~~ 5

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-11
Project No.	
Meter Reader	MH



Cross Section of Duct

Barometric (in. Hg)	29.5
Static (inH_2O)	-16.5
Ambient Temp. (^0F)	100
Start Time	10:03
Stop Time	11:33

Sample Train A Unspiked Trap

Trap ID	94457	Meter ID	25	Yd	.9994
Pre Leak Check	0.00	lpm @	5	(in. Hg)	
Post Leak Check	0.00	lpm @	10	(in. Hg)	

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
1	3.75	.4	1.90	346	109	5	
	7.5	.4	3.11	351	110	5	
2	11.25	.4	4.73	350	110	5	
	15	.4	6.33	346	110	5	
3	18.75	.4	7.85	351	112	5	
	22.5	.4	10.79	345	117	5	
1	26.25	.4	11.32	343	120	6	
	30	.4	12.67	341	122	6	
2	33.75	.4	13.99	343	124	6	
	37.5	.4	15.88	346	126	6	
3	41.25	.4	17.33	346	127	6	
	45	.4	19.46	345	128	6	
Total							
Average							

Sample Train B Spiked Trap

Trap ID	94244	Meter ID	25	Yd	1.0017
Pre Leak Check	0.00	lpm @	5	(in. Hg)	
Post Leak Check	0.00	lpm @	11	(in. Hg)	

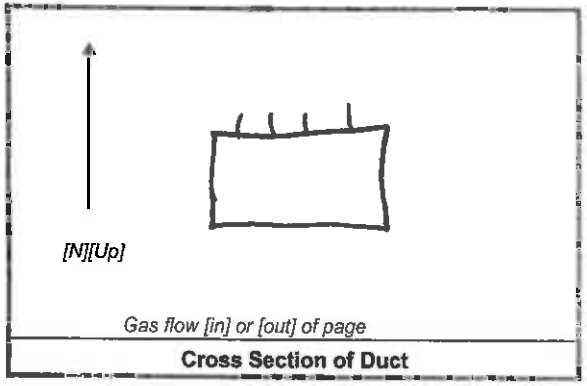
	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
1	3.75	.4	1.44	346	109	1	
	7.5	.4	2.90	351	110	1	
2	11.25	.4	4.51	350	117	1	
	15	.4	5.88	346	111	1	
3	18.75	.4	7.68	351	113	1	
	22.5	.4	8.48	345	114	1	
1	26.25	.4	10.22	343	119	1	
	30	.4	11.64	341	121	1	
2	33.75	.4	12.82	343	125	1	
	37.5	.4	14.83	346	127	2	
3	41.25	.4	16.18	346	128	2	
	45	.4	17.99	345	129	2	
Total							
Average							

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4S

Client	BigRivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-11
Project No.	
Meter Reader	MH



Gas flow [in] or [out] of page

Cross Section of Duct

Barometric (in. Hg)	
Static (inH_2O)	-18.5
Ambient Temp. (^{0}F)	95
Start Time	10:03
Stop Time	

Sample Train A

Trap ID	94457	Meter ID	25	Yd	.9994
Pre Leak Check	0.00	lpm @	8	(in. Hg)	
Post Leak Check	0.00	lpm @	11	(in. Hg)	

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 6.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
1	48.75	.4	21.67	350	130	7	
	52.5	.4	22.97	351	131	7	
2	56.25	.4	24.26	349	132	7	
	60	.4	26.46	349	132	7	
3	63.75	.4	28.33	351	133	7	
	67.5	.4	30.38	350	134	8	
1	71.25	.4	31.62	351	135		
	75	.4	32.76	351	136		
2	78.75	.4	36.04	349	137		
	82.5	.4	37.77	352	138		
3	86.25	.4	39.48	352	139		
	90	.4	39.11	352	140		
	Total						
	Average						

Sample Train B Spiked

Trap ID	94244	Meter ID	25	Yd	1.0017
Pre Leak Check	0.00	lpm @	5	(in. Hg)	
Post Leak Check	0.00	lpm @	13	(in. Hg)	

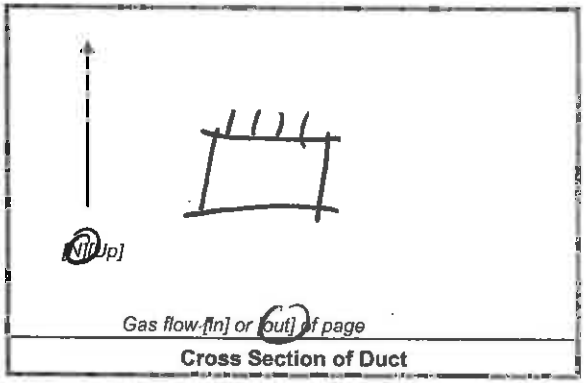
	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 6.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
1	48.75	.4	19.07	350	131	2	
	52.5	.4	20.88	351	131	2	
2	56.25	.4	22.69	349	132	2	
	60	.4	24.01	349	133	2	
3	63.75	.4	25.71	351	134	2	
	67.5	.4	26.99	350	135	2	
1	71.25	.4	29.21	351	136	2	
	75	.4	29.99	351	137	2	
2	78.75	.4	31.53	349	138	2	
	82.5	.4	33.93	352	139	2	
3	86.25	.4	34.51	352	140	2	
	90	.4	36.92	352	140	2	
	Total						
	Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3 6

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-11
Project No.	
Meter Reader	MH



Barometric (in. Hg)	29.5
Static (inH_2O)	-19.5
Ambient Temp. (^0F)	105
Start Time	13:01
Stop Time	14:33

Sample Train A

Trap ID	94300	Meter ID	25	Yd	.9994
Pre Leak Check	0.00	lpm @	10	(in. Hg)	
Post Leak Check	0.00	lpm @	12	(in. Hg)	

Sample Train B Spiked

Trap ID	94321	Meter ID	25	Yd	1.0017
Pre Leak Check	0.00	lpm @	5	(in. Hg)	
Post Leak Check	0.00	lpm @	9	(in. Hg)	

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
3.75	.4	1.38	343	99	5	
7.5	.4	2.85	351	199	5	
11.25	.4	4.38	353	101	5	
15	.4	5.97	349	103	5	
18.75	.4	7.30	345	103	5	
22.5	.4	8.83	343	130	5	
26.25	.4	10.18	351	131	5	
30	.4	11.73	350	133	5	
33.75	.4	13.04	349	136	5	
37.5	.4	14.70	351	137	5	
41.25	.4	16.19	352	139	5	
45	.4	17.53	351	140	5	
Total						
Average						

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
1-	3.75	.4	1.58	343	100	1	
1	7.5	.4	3.17	351	101	1	
2	11.25	.4	4.81	353	102	1	
	15	.4	6.68	349	103	1	
3	18.75	.4	7.98	345	104	1	
+	22.5	.4	9.53	343	131	1	
1	26.25	.4	11.34	351	133	1	
	30	.4	12.78	350	135	1	
2	33.75	.4	14.58	349	136	1	
	37.5	.4	15.21	351	137	1	
3	41.25	.4	17.01	352	138	1	
	45	.4	19.06	351	140	1	
	Total						
	Average						

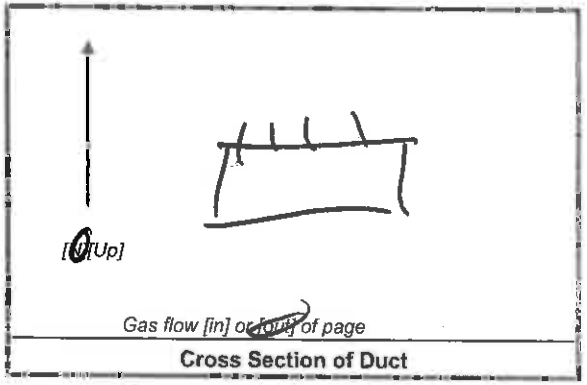
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 86

Page	2	of	2

Client	Big Rivers
Plant	Owensboro, KY
Location	ESP-3
Date	7-19-20
Project No.	
Meter Reader	MK



Barometric (in. Hg)	
Static (in H_2O)	-19.5
Ambient Temp. (°F)	110
Start Time	10:03
Stop Time	

Sample Train A

Trap ID	99300	Meter ID	25	Yd	.994
Pre Leak Check	0.00		lpm @	10	(in. Hg)
Post Leak Check	0.00		lpm @	12	(in. Hg)

Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
48.75	.4	18.89	354	140	5	
52.5	.4	20.08	355	140	5	
56.25	.4	22.10	354	140	6	
60	.4	23.53	357	141	6	
63.75	.4	25.58	356	141	6	
67.5	.4	27.04	356	141	6	
71.25	.4	28.68	357	142	6	
75	.4	30.03	356	142	6	
78.75	.4	31.29	354	142	6	
82.5	.4	33.82	351	143	6	
86.25	.4	34.79	353	143	6	
90	.4	36.77	354	144	6	
Total						
Average						

Sample Train B Spiked

Trap ID	99320	Meter ID	25	Yd	1.007
Pre Leak Check	0.00		lpm @	5	(in. Hg)
Post Leak Check	0.00		lpm @	4	(in. Hg)

	Min/Point 3.75 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
1	48.75	.4	20.54	354	140	1	
	52.5	.4	22.64	355	141	1	
2	56.25	.4	23.73	354	141	1	
	60	.4	25.05	357	142	1	
3	63.75	.4	26.54	356	142	1	
	67.5	.4	28.41	356	142	1	
1	71.25	.4	30.39	357	143	1	
	75	.4	32.59	356	143	1	
2	78.75	.4	33.94	354	143	1	
	82.5	.4	35.30	351	143	1	
3	86.25	.4	35.36	353	144	1	
	90	.4	37.93	354	144	1	
	Total						
	Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 4 **METHOD NO.** 5B/202 Page 1 of 3

Client	Big Rivers						Barometric (inHg)	29.56	Water [ml] [g]	
Plant	D.B. Wilson						Ambient Temp (°F)	92°	Silica gel (g)	
Location	ESP 4						Static (inH2O)	-.6	Total Vlc	
Date	7/19/11	Project No.	3648				Probe ID		Liner Type	Pyrex
Meter Operator	CLT						Nozzle ID	.315	Nozzle Dia (in)	.250
Probe Operator							Filter ID	12-196		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84		Train ID	IB-3	Train Type	Imp.
ΔH@	1.772	Kf	22.61	Leak check	✓		Duct Dim. (in)	86x13.5	Port Lngth (in)	43"
Pre Leak Check	0.000	[cfm] [lpm] @	12	(inHg)						
Post Leak Check	0.000	[cfm] [lpm] @	15	(inHg)			Start Time	703	Stop Time	834

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
				957.728		320	320							
A1	3.25	.33	.86	959.16	318	305	303	65	84	80	7	77		
2	6.5	.49	1.3	961.67	320	310	309	63	87	82	9	77		
3	9.75	.53	1.4	963.74	323	320	316	60	87	81	10	75		
4	13	.5	1.3	965.81	323	309	315	59	88	82	9	74		
5	16.25	.3	.75	967.4	325	311	318	59	88	82	7	73		
6	19.5	.39	1.0	969.0	324	310	320	59	89	83	8	74		
7	22.75	.3	.78	970.681	326	308	321	59	90	83	7	73		
C1	26	.33	.86	972.2	309	311	320	60	910	83	7	73		
2	29.25	.6	1.6	974.47	307	321	323	60	92	84	11	72		
3	32.5	.6	1.6	977.04	309	325	321	61	93	84	11	72		
4	35.75	.6	1.6	979.26	310	322	320	62	94	85	11	71		
5	39	.6	1.6	981.345	316	319	319	62	94	86	11	71		
Total		20.95	14.68	59.31	3610				1076	915				
Average		.7306	1.40		314.03				89.7	88.0				

1991

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 4 **METHOD NO.** 5B/202 **Page** 2 **of** 3

Client	Big Rivers				
Plant	D.B. Wilson				
Location					
Date		Project No.			
Meter Operator					
Probe Operator					
Meter ID		Yd		Pitot Cp	
ΔH@		Kf		Leak check	
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)		Silica gel (g)	
Static (inH_2O)		Total Vlc	
Probe ID		Liner Type	
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID		Train Type	
Duct Dim. (in)		Port Lngth (in)	
Start Time		Stop Time	

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
C6	42.25	.6	1.6	983.68	314	320	319	62	94	86	12	72		
C7	45.5	.63	1.6	985.87	314	311	319	62	94	86	12	73		
D1	48.75	.35	1.4	988.01	295	322	319	63	94	87	11	73		
2	52	.55	1.4	990.11	296	324	324	64	95	87	11	74		
3	55.25	.55	1.4	992.18	297	323	323	65	95	88	11	75		
4	58.5	.6	1.6	994.3	299	313	317	62	96	88	13	76		
5	61.75	.55	1.4	996.55	302	314	318	60	96	88	12	74		
6	65	.65	1.7	998.9	309	314	311	59	96	89	14	74		
7	68.25	.65	1.7	001.1	309	304	317	57	96	89	14	74		
1	71.5	.55	1.4	003.40	311	306	322	56	95	89	12	76		
2	74.75	.55	1.4	005.54	314	311	321	56	94	89	12	78		
3	78	.62	1.6	007.65	317	316	321	58	95	89	13	77		
Total		20.41	30.80	59.31	3077				1140	1054				
Average		.7306	1.40		314.09				97.16	88.0				

ΔH Tot 14.30

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 4 **METHOD NO.** 5B/202 Page 3 of 3

Client	B.3 River						Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson						Ambient Temp (°F)		Silica gel (g)	
Location	ESP 4						Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.					Probe ID		Liner Type	
Meter Operator	CLT						Nozzle ID		Nozzle Dia (in)	
Probe Operator							Filter ID			
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	[N] [Up]	Train ID	IB-3	Train Type	
ΔH@	1.777	Kf	2.61	Leak check	✓	First point all the way [in] [out]	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)	Gas flow [in] [out] of page				
Post Leak Check		[cfm] [lpm] @			(inHg)	Cross Section of Duct	Start Time		Stop Time	

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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	80.25	.63	1.6	010.13	323	314	321	59	95	90	13	77		
5	85.5	.65	1.7	012.44	328	310	322	59	96	90	14	76		
6	90.75	.62	1.6	014.75	328	308	317	60	96	90	14	76		
7	96	.6	1.6	017.030	327	311	320	61	96	91	14	76		
			6.5											
Total		~~.7045~~ .7306	~~1.80~~ 1.40	59.31	~~1306~~ 1314.03				383	~~361~~ 958.01				
Average														

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 5 **METHOD NO.** 5B/202 **Page** 1 **of** 3

Client	Big Rivers						Barometric (inHg)	29.56	Water [ml] [g]	
Plant	D.B. Wilson						Ambient Temp (°F)	98	Silica gel (g)	
Location	ESP 4						Static (inH2O)	-1.6	Total Vlc	
Date	7/19/11	Project No.					Probe ID		Liner Type	Tmf
Meter Operator	CLT						Nozzle ID	.203	Nozzle Dia (in)	
Probe Operator							Filter ID	12164		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84		Train ID	EB 13	Train Type	Sm D
ΔH@	1.772	Kf	2.61	Leak check	✓		Duct Dim. (in)	13'6"Rd	Port Lngth (in)	43"
Pre Leak Check	0.000	[cfm] [lpm] @	15	(inHg)						
Post Leak Check	0.000	[cfm] [lpm] @	20	(inHg)			Start Time	1003	Stop Time	1145

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
				017.960		320	320							
1	3.25	.3	.78	019.58	323	310	315	59	96	94	6	79°		
2	6.5	.3	1	021.37	324	311	314	57	97	94	7	78°		
3	9.75	.35	.91	023.07	325	314	310	55	98	95	7	78°		
4	13	.35	.91	024.75	323	309	312	55	98	94	7	77°		
5	16.25	.45	1.2	026.52	321	312	315	55	99	94	9	77°		
6	19.5	.4	1	028.27	319	310	325	56	99	95	9/10	77°		
7	22.75	.4	1	030.03	320	311	320	56	99	95	12	78°		train
1	26	.41	1	031.90	300	315	319	57	99	96	14	78°		Stopped for plugged @ 29.5 min.
2	29.25	.45	1.2	033.1	299	317	314	57	99	96	18	77°		033.159 Restart @ 034.820
3	32.5	.45	1.2	036.45	301	311	315	57	98	95	8	80°		
4	35.75	.5	1.3	038.6	302	311	311	64°	99	96	8	79°		Subtract 1.661 cu ft from total volume
5	39	.5	1.3	040.71	309	320	309	63°	101	96	8	79°		
Total				50.51					3792	2637				
Average		.492	1.24		317.9				97.66					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 5 **METHOD NO.** _____ Page 2 of 3

Client	Big River					Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP A					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	CLT					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID			
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	Train ID		Train Type	
ΔH@		Kf	2.61	Leak check	✓	Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)				
Post Leak Check		[cfm] [lpm] @			(inHg)				

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	42.25	.43	1.2	042.57	309	312	311	60°	101	96	8	79°		
7	45.5	.43	1.1	044.5	309	312	309	60°	101	96	8	78°		
B 1	48.75	.6	1.6	046.6	319	314	311	61°	101	96	10	77°		
2	52	.6	1.6	048.78	320	311	309	61°	102	96	12	75°		*Pulling Max ΔH cannot pull 1.6 ΔH Maxed out
3	55.25	.6	1.6	051.01	329	314	320	62°	101	96	16	74°		
4	58.5	.6	*1.2	053.06	328	311	319	62°	100	96	20	74°		
5	61.75	.55	*1.2	055.01	329	309	321	63°	99	96	20	74°		
6	65	.52	*1.2	056.99	331	312	320	65°	99	96	20	76°		
7	68.25	.57	*1.2	058.44	335	305	317	60°	98	96	20	77°		Replaced filter @ 68.25 - subtract .333
C 1	70.5	.55	1.4	061.41	311	305	315	67	99	96	7	79°		
2	74.75	.53	1.4	063.52	313	317	325	64°	101	96	8	79°		Restart vol 059.274
3	78	.53	1.4	065.61	315	319	320	62°	102	96	8	77°		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 5 **METHOD NO.** 5B/202 **Page** 3 **of** 3

Client	Peace Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP 4					Static (inH_2O)		Total Vlc	
Date	7/19/11	Project No				Probe ID		Liner Type	
Meter Operator	CLT					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID	12164		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	Train ID	1B13	Train Type	
ΔH@	1.772	Kf	2.61	Leak check	✓	Duct Dim (in)	13'6"	Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @			(inHg)				
Post Leak Check		[cfm] [lpm] @			(inHg)	Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	83	.55	1.4	067.73	319	324	316	60°	101	96	8	77°		
5	85	.58	1.5	069.96	319	323	323	55°	101	96	9	78°		
6	87.75	.61	1.6	072.28	323	315	319	54°	102	97	9	78°		
7	91	.54	1.4	074.97	324	309	321	52°	102	96	9	76°		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202 Page 1 of 3

Client	Big Rivers						Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson						Ambient Temp (°F)	96	Silica gel (g)	
Location	ESP 4						Static (inH_2O)	-20"	Total Vlc	
Date	7/19/11	Project No.					Probe ID		Liner Type	
Meter Operator	CLT						Nozzle ID		Nozzle Dia (in)	
Probe Operator							Filter ID	12187		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	[N] [Up]	Train ID	1B-3	Train Type	
ΔH@	1.772	Kf	2.61	Leak check	✓	First point all the way [in] [out]	Duct Dim. (in)	13' 6"	Port Lngth (in)	
Pre Leak Check	0.000	[cfm] [lpm] @	15	(inHg)		Gas flow [in] [out] of page				
Post Leak Check	0.000	[cfm] [lpm] @	12	(inHg)		Cross Section of Duct	Start Time	1301	Stop Time	

Traverse Point	Min/Point 3.25 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
A 1	3.25	.3	.78	078.90	329	311	300	67°	95	94	5	80		
2	6.5	.38	.99	078.7	331	307	308	65°	96	95	6	79		
3	9.75	.5	1.3	080.74	332	314	311	63°	97	94	7	78		
4	13	.3	.78	082.21	333	309	315	63°	98	95	5	78		
5	16.25	.39	1	084.12	339	312	310	61°	98	95	6	77°		
6	19.5	.38	.99	085.89	334	315	309	60°	99	95	6	77°		
7	22.75	.35	.91	087.6	332	305	318	60°	99	95	6	77°		
B 1	26	.49	1.3	089.55	318	305	322	60°	101	96	7	77°		
2	29.25	.48	1.3	091.59	321	310	320	59°	102	96	7	78°		
3	32.5	.6	1.6	093.79	324	313	320	59°	102	96	8	77°		
4	35.75	.49	1.3	095.88	329	318	316	59°	102	96	8	75°		
5	39	.6	1.6	098.14	333	311	318	59°	104	97	9	76°		
Total				98.672					2655	2713				
Average		.376	1.37						99	95				

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202

Client	Big Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)	96	Silica gel (g)	
Location	ESP 4					Static (inH_2O)	-20"	Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	CLT					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID	12187		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	Train ID	IB-3	Train Type	
ΔH@	1.772	Kf	2.61	Leak check	✓	Duct Dim. (in)	13'6"	Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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	42.25	.64	1.7	100.48	333	315	310	60°	104	97	10	76°		
7	45.5	.6	1.6	102.79	333	312	314	61°	104	97	10	75°		
D 1	48.75	.5	1.3	105.07	298	306	320	61°	103	98	8	75°		
2	52	.55	1.4	107.19	301	308	323	62°	103	98	8	76°		
3	55.25	.5	1.3	109.19	305	307	321	64°	103	98	8	77°		
4	58.5	.5	1.3	111.23	307	307	325	66°	102	97	8	78°		
5	61.75	.62	1.6	113.51	313	305	324	61°	103	97	10	77°		
6	65	.6	1.6	115.79	314	310	316	60°	104	98	10	76°		
7	68.25	.61	1.6	118.0	312	308	315	58°	104	98	10	76°		
D C 1	71.5	.55	1.4	120.31	310	311	321	58°	105	98	.9	76		
2	74.75	.53	1.4	122.46	314	305	323	60°	105	99	.9	76°		
3	78	.63	1.6	124.74	319	305	324	61	105	99	10	76°		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: _____

RUN NO. 6 **METHOD NO.** 5B/202 **Page** 3 **of** 3

Client	Big River					Barometric (inHg)		Water [ml] [g]	
Plant	D.B. Wilson					Ambient Temp (°F)	96	Silica gel (g)	
Location	ESP 4					Static (inH_2O)	70"	Total Vlc	
Date	7/19/11	Project No.				Probe ID		Liner Type	
Meter Operator	CLT					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID	12187		
Meter ID	M-17	Yd	1.0141	Pitot Cp	.84	Train ID	1B-3	Train Type	
ΔH@	1.772	Kf	2.61	Leak check	✓	Duct Dim (in)	13'6"	Port Lngth (in)	
Pre Leak Check	0.000	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	0.000	[cfm] [lpm] @	12	(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	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
C4	81.25	.62	1.6	127.03	326	311	326	62°	105	98	10	76		
5	84.5	.65	1.7	129.39	330	308	323	62°	105	99	10	76		
6	87.75	.62	1.6	131.73	331	307	319	63°	105	99	10	76		
7	91	.6	1.6	134.015	330	301	317	63°	105	99	10	76		
Total														
Average														

le correct bracketed [ ] units

n Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 3642

Page ___ of ___

Client	BioBriquets
Plant	Ibuilson
Location	ESP #4
Date	7/19/94
Operator	BC

Run No.	4				
Method No.	202	Train ID		Filter No.	
	Contents	Tare wt/ Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	449.0	511.5	-50 DI	
Impinger No. 2	DI	565.1	609.2		
Impinger No. 3	Empty	560.4	557.4		
Impinger No. 4	Silica	917.0	950.6		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	202	Train ID		Filter No.	
	Contents	Tare wt/ Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	590.0	697.5	-50 DI	
Impinger No. 2	DI	632.0	620.2		
Impinger No. 3	Empty	544.0	540.4		
Impinger No. 4	Silica	872.8	892.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	202	Train ID		Filter No.	
	Contents	Tare wt/ Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	457.6	568	-50 DI	
Impinger No. 2	DI	630.5	627		
Impinger No. 3	Empty	542.4	546		
Impinger No. 4	Silica	951.2	965		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

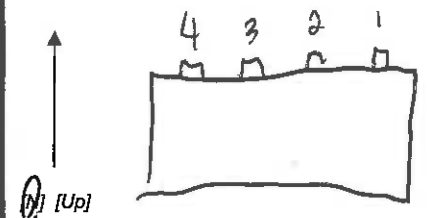
General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 4 **METHOD NO.** 26

Page 1 of 1

Client	Big Rivers - Wilson			Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Owensboro, Ky			Ambient Temp (°F)	90	Silica gel (g)	
Location	ESP outlet #4			Static (inH_2O)	-20	Total Vlc	
Date	7/20/11	Project No.	3648	Probe ID	AE-5-6-2	Liner Type	glass
Meter Operator	BK			Nozzle ID	.23	Nozzle Dia (in)	.23
Probe Operator	JK			Filter ID	N/A		
Meter ID	M-6	Yd	1.0076	Train ID	IB-24	Train Type	Imp
ΔH@	1.787	Kf	~~2.58~~	Duct Dim. (in)	13'6"	Port Lngth (in)	31
Pre Leak Check	.000	[cfm] [lpm] @	15 (inHg)	Pitot Cp	.84	Leak check	✓
Post Leak Check	.000	[cfm] [lpm] @	10 (inHg)	Start Time	8:40	Stop Time	



Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [l] 553.81	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
N/A	10	~~.55~~	1.8	561.56	303	252	262	63	95	95	9	N/A		
	20	~~.66~~	1.8	568.85	302	262	262	60	95	95	9			
	30	~~.53~~	1.8	576.17	304	253	254	58	94	94	9			
	40	N/A	1.8	583.59	305	260	260	58	94	94	9			
	50		1.8	590.99	305	256	261	59	95	94	9			
	60		1.8	598.45	305	266	261	57	95	94	9			
	70		1.8	605.86	305	255	262	57	96	94	9			
	80		1.8	613.43	305	268	260	55	97	95	9			
	90		1.8	620.76	306	250	258	55	97	95	9			
	100		1.8	628.21	305	267	261	55	98	96	9			
	110		1.8	635.63	306	253	263	54	99	96	9			
	120		1.8	643.07	305	255	261	54	99	97	9			
Total			21.6	89.26	3656				1154	1139				
Average			1.8		304.6				95.5					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

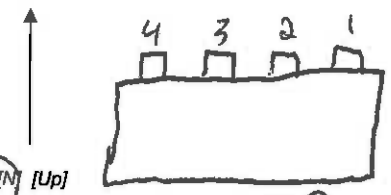
General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 5 METHOD NO. 26

Page 1 of 1

Client	Big Rivers - Wilson					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Owensboro, KY					Ambient Temp (°F)	90	Silica gel (g)	
Location	Esp Outlet #4					Static (inH_2O)	-20	Total Vlc	
Date	7/26/11	Project No.	3648			Probe ID	AE-5-6-2	Liner Type	glass
Meter Operator	BK					Nozzle ID	.23	Nozzle Dia (in)	.23
Probe Operator	JK					Filter ID	N/A		
Meter ID	M-6	Yd	1.0076	Pitot Cp	.84	Train ID	IB New	Train Type	Imp
ΔH@	1.787	Kf	2.38	Leak check	✓	Duct Dim. (in)	13'6"	Port Lngth (in)	31
Pre Leak Check	.00	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	.000	[cfm] [lpm] @	11	(inHg)		Start Time	12:05	Stop Time	



Cross Section of Duct

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				647.50		250	250							
	10	N/A	1.8	656.12	305	254	261	59	97	96	8	N/A		
	20		1.8	663.72	305	254	258	59	97	96	8			
	30		1.8	671.37	305	253	261	58	98	97	8			
	40		1.8	679.01	305	267	259	58	19	97	8			
	50		1.8	686.54	306	269	266	57	99	98	8			
	60		1.8	693.97	306	255	267	57	99	98	8			
	70		1.8	701.67	306	255	265	59	99	98	8			
	80		1.8	709.23	306	268	258	58	99	98	8			
	90		1.8	716.83	305	252	259	58	99	98	8			
	100		1.8	724.39	305	253	257	59	99	98	8			
	110		1.8	731.95	305	255	258	60	100	98	8			
	120		1.8	739.47	305	257	258	60	100	99	8			
Total			21.6	(91.87)	3664				1186	1171				
Average			(1.8)		(305.3)				(98.2)					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 6 METHOD NO. 26

Page 1 of 1

Client	Big Rivers-Wilson						Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Owensboro, Ky						Ambient Temp (°F)	99	Silica gel (g)	
Location	ESP outlet #4						Static (inH2O)	-20	Total Vlc	
Date	7/20/11	Project No.	3648				Probe ID	AE-5-6-2	Liner Type	glass
Meter Operator	BK						Nozzle ID	.23	Nozzle Dia (in)	.23
Probe Operator	JK						Filter ID	N/A		
Meter ID	M-6	Yd	1.0076	Pitot Cp	.84		Train ID	IB24	Train Type	Imp
ΔH@	1.787	Kf	N/A	Leak check	✓		Duct Dim. (in)	13'6"	Port Lngth (in)	31
Pre Leak Check	.007	[cfm] [lpm] @	16	(inHg)						
Post Leak Check	.000	[cfm] [lpm] @	12	(inHg)			Start Time	15:05	Stop Time	

[In] [Up]

4 3 2 1

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 741.80	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
N/A	10	N/A	1.8	749.93	305	255	242	59	100	99	9	N/A		
|	20	|	1.8	758.01	305	256	262	59	101	99	9	|		
|	30	|	1.8	765.25	305	251	262	58	101	99	9	|		
|	40	|	1.8	772.92	305	261	259	57	102	99	9	|		
|	50	|	1.8	780.57	305	267	261	57	102	100	9	|		
|	60	|	1.8	788.25	305	244	253	57	103	100	9	|		
|	70	|	1.8	795.93	304	248	262	56	103	100	9	|		
|	80	|	1.8	803.59	305	247	261	56	102	100	9	|		
|	90	|	1.8	811.25	306	248	261	57	102	100	9	|		
|	100	|	1.8	818.79	305	250	258	59	102	100	9	|		
|	110	|	1.8	826.46	305	256	261	59	102	100	9	|		
V	120	V	1.8	834.98	305	250	260	60	104	100	9	V		
Total			21.6	93.18	3661				1222	1196				
Average			1.8		305.08				100.75					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO. 324-

Page ___ of ___

Client:	BCM.R.S
Plant:	DD 9N2W
Location:	ESP 4
Date:	7/20/11
Operator:	BL

Run No.	4				
Method No.	26A	Train ID:		Filter No.	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	609.4	689		-50
Impinger No. 2	H_2SO_4	608.8	662		
Impinger No. 3	Empty	629.0	653		
Impinger No. 4	Silica	858.4	891		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	26A	Train ID:		Filter No.	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	714	771		-50
Impinger No. 2	H_2SO_4	693	731		
Impinger No. 3	EMPTY	545	555		
Impinger No. 4	Silica	941	972		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	26A	Train ID:		Filter No.	
	Contents	Initial Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H_2SO_4	610	706		
Impinger No. 2	H_2SO_4	609	652		
Impinger No. 3	EMPTY	631	652		
Impinger No. 4	Silica	891	927		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

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TESTING TYPE: METALS

RUN NO. 4 METHOD NO. 29 Page 1 of 3

Client	BIG RIVERS						
Plant	WILSON						
Location	ESP OUT #4						
Date	7/20/11	Project No.	5148				
Meter Operator	KAPUT						
Probe Operator	KAPUT						
Meter ID	M17	Yd	1.0141	Pitot Cp	.84		
ΔH@	1.772	Kf	3.55	Leak check	✓		
Pre Leak Check	.001	[cfm] [lpm] @	15	(inHg)			
Post Leak Check	.008	[cfm] [lpm] @	12	(inHg)			

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inH2O)	-.20	Total Vlc	
Probe ID	AES-10-2	Liner Type	TFE
Nozzle ID	.268	Nozzle Dia (in)	.268
Filter ID	NA		
Train ID	18	Train Type	IMP
Duct Dim. (in)	131 6"	Port Lngth (in)	31
Start Time	8:40	Stop Time	16:9[illegible]

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 134.77	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-1	4.5	.39	1.4	138.10	315	259	253	70	95	94	6.5	NA		ROLLING START
2	9.0	.43	1.46	139.79	317	253	248	64	96	94	4			
3	13.5	.34	1.2	142.53	319	251	261	64	98	94	6			
4	18.0	.47	1.7	145.86	320	253	261	66	99	94	7.5			
5	22.5	.22	.78	148.10	322	253	250	67	99	94	5			
6	27.0	.22	.78	150.27	323	250	260	61	99	94	5			
7	31.5	.20	.71	152.34	324	251	252	61	99	94	5			
2-1	36.0	.58	2.10	156.26	324	250	253	66	99	94	12.5 9			ΔP=0.58 ΔH=2.1
2	40.5	.55	2.0	159.89	311	259	255	64	102	94	9			ΔP=0.55 ΔH=2.0
3	45.0	.54	1.9	163.40	313	257	253	64	103	95	8			
4	49.5	.61	2.2	167.23	316	252	250	66	103	95	9.5			
5	54.0	.55	2.0	170.81	320	252	252	66	104	95	9			
Total			17.15	94.52	3824				2690	2684				
Average		.6922			313.35				95.857					

Circle correct bracketed [ ] units

knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 4 METHOD NO. 29

Client	Big Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP Out #4					Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	
Meter Operator						Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial 0 [l] 170.81	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
2-6	58.5	.64	2.3	174.68	325	252	248	68	104	95	10	NA		
2-7	63.0	.60	2.1	178.31	325	252	249	68	105	96	9			
3-1	67.5	.57	2.0	182.34	304	250	252	64	104	96	8			
3-2	72.0	.54	2.1	186.04	305	255	250	61	105	96	9			
3-3	76.5	.54	1.9	189.59	308	255	253	66	104	97	8			
3-4	81.0	.63	2.2	193.40	312	253	253	66	107	97	9.5			
3-5	85.5	.54	1.9	197.96	317	251	252	66	107	97	8.5			
3-6	90.0	.56	1.9	200.100	324	251	248	66	108	98	8.5			
3-7	94.5	.57	2.0	204.11	324	251	254	68	108	98	9			
4-1	99	.53	1.9	208.40	293	250	253	70	105	98	8.5			ROLLING START MAY HAVE
4-2	103.5	.55	1.9	211.80	297	255	252	68	107	98	8.5			CAUSED HIGH ISO'S FOR
4-3	108	.49	1.7	215.15	297	251	250	61	105	97	8			THIS POINT
Total														
Average														

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 4 METHOD NO. 29 Page 3 of 3

Client	Big Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	BSP DOT #4					Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	
Meter Operator	Kaput					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [f] [l] 215.15	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-4	1126	.62	2.2	218.93	299	252	253	65	105	98	10			
4-5	117	.46	1.6	222.14	301	251	250	64	106	97	8			
4-6	1215	.56	2.0	225.79	309	252	258	63	105	97	9			
4-7	126	.55	2.0	229.33	310	253	255	67	107	98	9			
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

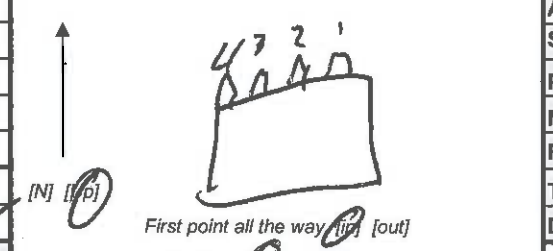
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 5 METHOD NO. 29

Client	BIG RIVERS						
Plant	WILSON						
Location	ESP OUT #4						
Date	7/20/11	Project No.	3648				
Meter Operator	KADVT						
Probe Operator	KADVT						
Meter ID	M17	Yd	1.0141	Pitot Cp	.84		
ΔH@	1.772	Kf	3.55	Leak check	✓		
Pre Leak Check	.004	[cfm] [lpm] @	12	(inHg)			
Post Leak Check	.008	[cfm] [lpm] @	12	(inHg)			



Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	93	Silica gel (g)	
Static (inH_2O)	-20	Total Vlc	
Probe ID	AES-10-2	Liner Type	TFE
Nozzle ID	268	Nozzle Dia (in)	.268
Filter ID	NA		
Train ID	IB-3	Train Type	IMP
Duct Dim. (in)	13' 6"	Port Lngth (in)	31"
Start Time	12:05	Stop Time	17:14

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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
				230.37		250	250							
1-1	4.5	.25	.89	232.10	323	257	254	77	100	97	5	NA	Y_m=232.1	ROLLING START MAY
2	9	.30	1.1	234.60	324	257	243	71	101	97	5			HAVE SCREWED UP
3	13.5	.32	1.1	236.21	324	256	251	66	102	97	5			ISO'S FOR FIRST POINT.
4	18	.39	1.4	241.26	326	252	258	64	104	98	6.5			
5	22.5	.45	1.6	244.41	328	251	256	67	105	98	7			
6	27	.39	1.4	247.41	330	250	251	65	105	98	6.5			
7	31.5	.38	1.4	250.37	329	251	251	64	105	97	6.5			
2-1	36	.47	1.7	254.12	311	246	247	68	105	99	7.5			
2	40.5	.57	2.0	257.72	315	257	253	60	106	99	8			
3	45	.59	2.1	261.40	315	255	255	67	107	99	8			
4	49.5	.57	2.0	265.12	318	254	256	68	108	100	8			
5	54	.65	2.3	268.99	321	250	249	69	107	99	9			
Total				95.1					2967	2772				
Average		.503	1.76		315.6				102.3					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 5 METHOD NO. 29 Page 2 of 3

Client	Big Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP out #4					Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	
Meter Operator	Kaput					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [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_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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
				268.99		250	250							
2-6	58.5	.57	2.0	272.62	326	251	249	69	~~345~~	~~345~~	8	106	99	T_s = 326
2-7	63	.68	2.4	276.54	331	252	252	70	107	99	9			
3-1	67.5	.48	1.7	280.30	303	252	252	71	105	99	7			
3-2	72	.60	2.1	285.79	307	255	255	66	106	99	7.5			
3-3	76.5	.53	1.9	287.15	310	254	254	64	106	99	7.5			
3-4	81	.60	2.1	290.76	314	252	250	66	106	99	8			
3-5	85.5	.51	1.8	294.22	318	251	250	63	105	98	8			
3-6	90	.53	1.9	297.73	324	252	254	64	106	99	7.5			
3-7	94.5	.55	2.0	301.31	320	253	256	65	105	98	8			
4-1	99	.43	1.5	304.89	297	250	250	69	107	100	7			
4-2	103.5	.54	1.9	308.42	297	255	250	66	109	101	8			
4-3	108	.44	1.16	311.65	300	255	251	66	110	101	7			

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 5 METHOD NO. 29 Page 3 of 3

Client	Big Rivers					Barometric (inHg)		Water [ml] [g]	
Plant	Wilson					Ambient Temp (°F)		Silica gel (g)	
Location	ESP Out #4					Static (inH_2O)		Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID		Liner Type	
Meter Operator	Kaput					Nozzle ID		Nozzle Dia (in)	
Probe Operator						Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Train Type	
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Lngth (in)	
Pre Leak Check		[cfm] [lpm] @		(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [l] 311.65	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
4-4	1126	.60	2.1	315.33	302	252	253	67	110	101	8.5	NA		
4-5	117	.49	1.7	318.68	306	250	251	66	110	101	7			
4-6	1215	.51	1.8	322.09	309	251	251	65	108	100	7.5			
4-7	126	.52	1.8	325.47	310	253	252	64	108	101	7.5			

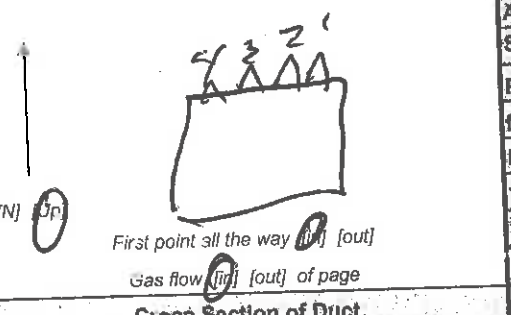
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 6 METHOD NO. 29 Page 1 of 3

Client	BIG RIVERS					Barometric (inHg)	29.50	Water [ml] [g]	
Plant	WILSON					Ambient Temp (°F)	98	Silica gel (g)	
Location	ESP OUT # 4					Static [inH2O]	-20	Total Vlc	
Date	7/20/11	Project No.	3648			Probe ID	AE10.5-2	Liner Type	TFE
Meter Operator	KAPUT					Nozzle ID	1268	Nozzle Dia (in)	1268
Probe Operator	KAPUT					Filter ID	NA		
Meter ID	M17	Yd	1.0141	Pitot Cp	.84	Train ID	18-18	Train Type	Imp
ΔH@	1.772	Kf	3.55	Leak check	✓	Duct Dim. (in)	131 6"	Port Length (in)	31"
Pre Leak Check	.001	[cfm] [lpm] @	14	(inHg)					
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time	15:05	Stop Time	1730



Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [I] 332.05	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1-1	4.5	.21	.75	334.24	325	255	261	71	101	100	4	NA		
1-2	9	.32	1.1	336.81	327	258	245	66	102	101	5			
1-3	13.5	.30	1.1	339.39	328	254	245	64	104	102	5			
1-4	18	.39	1.4	342.43	329	252	259	61	106	101	6			
1-5	22.5	.48	1.7	345.74	331	252	256	61	107	101	7			
1-6	27	.21	.75	347.90	317	252	249	57	109	101	4			
1-7	31.5	.20	.72	349.96	318	249	248	59	107	102	4			
2-1	36	.47	1.7	353.56	312	252	258	59	105	102	7			
2-2	40.5	.59	2.1	357.25	317	256	255	58	107	101	8			
2-3	45	.55	2.0	360.89	318	254	249	59	109	102	8			
2-4	49.5	.61	2.2	364.67	322	252	256	61	110	102	9			
2-5	54	.59	2.1	368.43	327	251	253	62	110	102				
Total									30226					
Average		.434	.48	94.24	317.429				105.143					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: METALS

RUN NO. 6 METHOD NO. 29

Client	BIG RIVERS				
Plant	WILSON				
Location	ESP OUT #4				
Date	7/20/11	Project No.	3648		
Meter Operator	KAPUT				
Probe Operator	KAPUT				
Meter ID		Yd		Pitot Cp	
ΔH@		Ki		Leak check	
Pre Leak Check		[cfm] [lpm] @		(inHg)	
Post Leak Check		[cfm] [lpm] @		(inHg)	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Barometric (inHg)		Water [ml] [g]	
Ambient Temp (°F)		Silica gel (g)	
Static (inH2O)		Total Vlc	
Probe ID		Liner Type	
Nozzle ID		Nozzle Dia (in)	
Filter ID			
Train ID		Train Type	
Duct Dim. (in)		Port Lngth (in)	
Start Time		Stop Time	

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft³) [I] 368.43	Stack Temp (°F)	Probe Temp (°F) 250	Filter Temp (°F) 250	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-6	58.5	.62	2.2	372.29	332	251	249	62	110	102	9	NA	V_m = 372.29
2-7	63	.64	2.2	376.05	332	250	250	61	110	103	10		
3-1	67.5	.47	1.7	379.87	305	249	254	66	107	102	7		
3-2	72	.60	2.1	383.57	307	255	251	64	106	103	8.5		
3-3	76.5	.57	1.8	387.03	311	255	256	62	110	103	7.5		
3-4	81	.62	2.2	390.94	316	251	251	63	110	103	9		
3-5	85.5	.51	1.8	394.29	319	252	250	62	110	103	7.5		
3-6	90	.60	2.1	397.99	326	251	254	65	109	103	8.5		
3-7	94.5	.60	2.1	401.70	327	251	253	65	116	103	8.5		
4-1	99	.55	2.0	405.76	297	249	255	66	107	102	8		
4-2	103.5	.51	1.8	409.21	298	257	252	67	109	103	7.5		
4-3	108	.48	1.7	412.53	301	254	253	67	109	103	7		
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. 6 METHOD NO. 29

Client	Big Rivers Wilson			Barometric (inHg)		Water [ml] [g]	
Plant				Ambient Temp (°F)		Silica gel (g)	
Location	ESP Out #4			Static (inH_2O)		Total Vic	
Date	7/20/11	Project No.	3648	Probe ID		Liner Type	
Meter Operator	Kaput			Nozzle ID		Nozzle Dia (in)	
Probe Operator	Kaput			Filter ID			
Meter ID		Yd		Pitot Cp		Train ID		Tram Type
ΔH@		Kf		Leak check		Duct Dim. (in)		Port Length (in)
Pre Leak Check		[cfm] [lpm] @		(inHg)			
Post Leak Check		[cfm] [lpm] @		(inHg)		Start Time		Stop Time	

[N] [Up]

First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 4.5 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft³] [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
				412.53		250	250							
4-4	112.5	.60	2.1	416.26	303	251	251	68	110	103	9	N/A		
4-5	117	.36	1.3	419.20	307	253	250	68	110	103	6	"		
4-6	121.5	.62	2.2	422.99	314	250	256	69	110	103	9	"		
4-7	126	.58	2.1	426.79	314	251	253	70	110	103	9	"		
Total														
Average														

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page ___ of ___

Client	BigRivers
Plant	DWilson
Location	ESP #4
Date	7/20/11 Unit
Operator	BL

Run No.	4				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	633.1	809		-50
Impinger No. 2	5% 10%	740.9	786		
Impinger No. 3	5% 10%	771.5	788		
Impinger No. 4	EMPTY	664.2	657		
Impinger No. 5	Silica	949.5	969		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	640	809		-50
Impinger No. 2	5% 10%	763	810		
Impinger No. 3	5% 10%	690	708		
Impinger No. 4	EMPTY	569	569		
Impinger No. 5	Silica	892	909		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	633	800		-50
Impinger No. 2	5% 10%	738	772		
Impinger No. 3	5% 10%	766	789		
Impinger No. 4	EMPTY	655	658		
Impinger No. 5	Silica	969	992		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

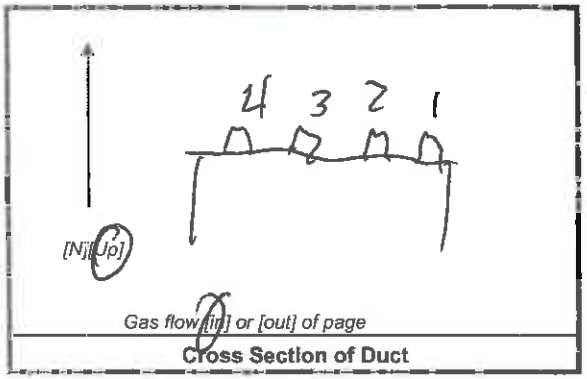
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Page 1 of 1

Client	Big Rivers
Plant	D.B. Wilson
Location	ESP Out #4
Date	7/19/11
Project No.	3C4C
Meter Reader	KAPUS



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-1.6
Ambient Temp. (°F)	82
Start Time	~~7:00~~ 7:03 12
Stop Time	8:39

Sample Train A

Trap ID	94316	Meter ID	M26	Yd	~~.9702~~ .9958
Pre Leak Check	.002	lpm @	21	(in. Hg)	11
Post Leak Check	.000	lpm @	5	(in. Hg)	

Sample Train B

Trap ID	94464	Meter ID	M26	Yd	.9902
Pre Leak Check	.000	lpm @	19	(in. Hg)	
Post Leak Check	.004	lpm @	10	(in. Hg)	

Min/Point 2.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	PROBE ~~Notes~~
2-1	0.4	4.231	323	~~85~~ 104	3	250
2	0.4	8.15	328	95	3	235
3	0.4	11.71	324	89	3	245
1-1	0.4	15.66	338	98	3	235
2	0.4	19.47	316	98	3	255
3	0.4	23.75	316	99	3	259
3-1	0.4	28.02	320	104	3	256
2	0.4	32.09	320	105	3	267
3	0.4	36.16	320	105	3	259
4-1	0.4	40.22	290	109	3	243
2	0.4	46.55	290	109	3	238
3	0.4	~~51.69~~	290	110	3	239
Total		51.69	~~3129~~	~~1195~~		
Average			308.75	99.58		

Min/Point 2.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	PROBE ~~Notes~~
2-1	0.4	3.396	323	84	7	250
2	0.4	6.24	328	86	7	235
3	0.4	9.016	324	91	7	235
1-1	0.4	11.88	338	99	8	235
2	0.4	14.85	316	99	8	255
3	0.4	18.04	316	99	8	259
3-1	0.4	21.23	320	105	8	256
2	0.4	24.37	326	106	9	267
3	0.4	27.56	320	107	9	259
4-1	0.4	30.66	290	109	9	245
2	0.4	35.70	290	110	9	238
3	0.4	40.88	290	111	9	239
Total		40.88	~~3375~~	~~1208~~		
Average			314.58	100.50		

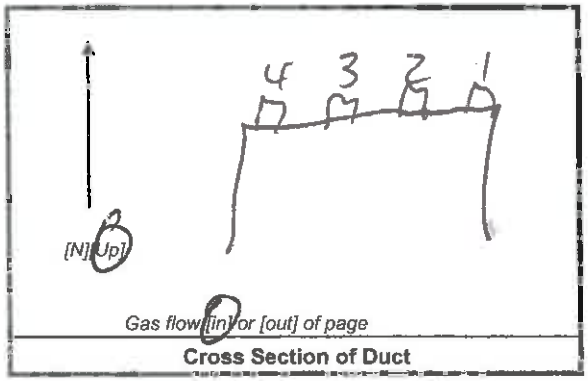
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page 1 of 2

Client	Big Rivers
Plant	Wilson
Location	ESP Out #4
Date	7/19/11
Project No.	3C4E
Meter Reader	KAPUT



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-16
Ambient Temp. (°F)	90
Start Time	10:05
Stop Time	11:33

Sample Train A

Trap ID	94255	Meter ID	M26	Yd	.9958
Pre Leak Check	.000	lpm @	18		(in. Hg)
Post Leak Check	.000	lpm @	14		(in. Hg)

Sample Train B

Trap ID	94499	Meter ID	M26	Yd	.9902
Pre Leak Check	.006	lpm @	21		(in. Hg)
Post Leak Check	.003	lpm @	6		(in. Hg)

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.000	Probe Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP Notes
3.75	0.4	2.144	144	113	7	151
7.5	0.4	4.75	155	109	7	149
11.25	0.4	6.97	182	106	7	167
15.0	0.4	8.99	247	108	7	185
18.75	0.4	11.08	265	107	7	177
22.5	0.4	13.18	271	108	7	172
26.25	0.4	15.00	277	110	7	180
30.00	0.4	16.84	282	110	7	186
33.75	0.4	18.45	294	111	7	192
37.5	0.4	20.59	294	113	7	199
41.25	0.4	22.43	294	113	7	193
45	0.4	24.33	294	114	7	193
Total		49.17	2994	1329		
Average			276.45	113.12		

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.000	Probe Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP Notes
3.75	0.4	1.664	147	106	3	151
7.5	0.4	3.668	155	108	3	149
11.25	0.4	6.12	182	107	4	167
15.0	0.4	8.47	247	107	4	185
18.75	0.4	10.85	265	108	4	177
22.5	0.4	13.11	271	109	4	172
26.25	0.4	15.47	277	110	4	180
30.0	0.4	16.96	282	111	4	186
33.75	0.4	18.85	294	112	4	192
37.5	0.4	20.76	294	113	4	199
41.25	0.4	22.57	294	114	4	193
45	0.4	24.47	294	114	4	193
Total		50.43	3002	1319		
Average			276.58	113.41		

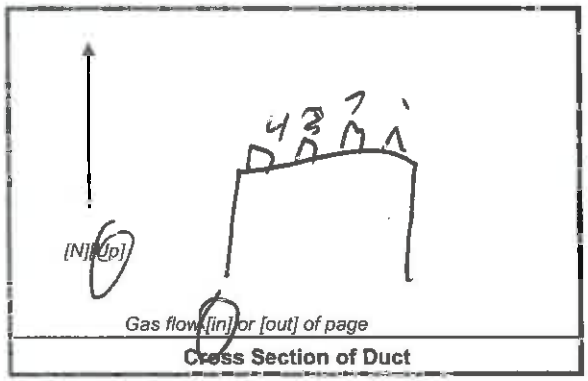
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page 2 of 2

Client	BIG RIVERS
Plant	WILSON
Location	ESP OUT #4
Date	7/19/11
Project No.	
Meter Reader	KAPUT



Cross Section of Duct

Barometric (in. Hg)	
Static (inH_2O)	
Ambient Temp. (^{0}F)	
Start Time	
Stop Time	

Sample Train A

Trap ID		Meter ID		Yd	
Pre Leak Check			lpm @		(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Sample Train B

Trap ID		Meter ID		Yd	
Pre Leak Check			lpm @		(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	PROBE Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	TRAP TEMP
		24.33				
48.75	0.4	26.77	296	115	7	194
52.5	0.4	29.13	301	116	7	194
56.25	0.4	30.05	302	114	7	191
60	0.4	31.97	301	116	8	192
63.75	0.4	34.05	301	114	8	190
67.5	0.4	36.18	301	117	8	190
71.25	0.4	38.34	302	117	9	190
75	0.4	40.51	306	117	9	193
78.75	0.4	42.69	308	116	9	195
82.5	0.4	44.85	307	116	9	195
86.25	0.4	47.03	306	116	9	194
90	0.4	49.17	305	116	9	194
Total		49.17	~~3636~~	~~1394~~		
Average			276.45	113.12		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	PROBE Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	TRAP TEMP
		26.17				
48.75	0.4	28.36	296	115	4	194
52.5	0.4	30.55	301	114	4	194
56.25	0.4	32.72	302	116	4	191
60	0.4	34.90	301	118	4	192
63.75	0.4	37.11	301	118	4	190
67.5	0.4	39.36	301	119	4	190
71.25	0.4	41.49	302	119	4	190
75	0.4	43.70	306	118	4	193
78.75	0.4	45.91	308	116	4	195
82.5	0.4	48.12	307	116	4	195
86.25	0.4	50.33	306	116	4	194
90	0.4	~~52.43~~	303	116	4	194
Total		52.43	~~3656~~	~~1403~~		
Average			276.58	113.41		

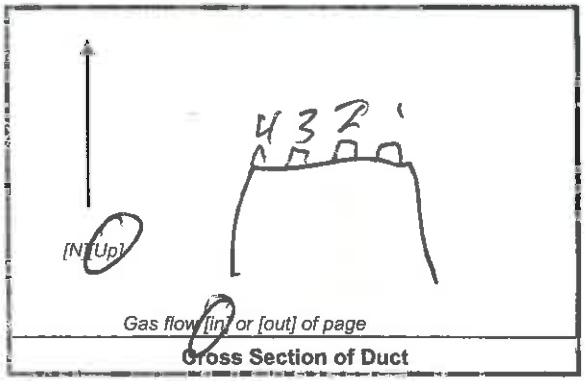
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Page	1	of	2

Client	BIG RIVERS
Plant	WILSON
Location	ESP OUT #4
Date	7/19/11
Project No.	
Meter Reader	KAPPS



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-20
Ambient Temp. (°F)	95
Start Time	13:01
Stop Time	19:33

Sample Train A

Trap ID	94299	Meter ID	M26	Yd	.9958
Pre Leak Check	0.000	lpm @	0	17	(in. Hg)
Post Leak Check	0.007	lpm @	18		(in. Hg)

Sample Train B

Trap ID	94475	Meter ID	M26	Yd	.9902
Pre Leak Check	0.000	lpm @	18		(in. Hg)
Post Leak Check	0.000	lpm @	5		(in. Hg)

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	PROBE Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP
3.75	0.4	2.42	212	120	3	193
7.5	0.4	4.83	228	120	3	186
11.25	0.4	7.05	235	120	3	176
15	0.4	9.33	246	120	3	168
18.75	0.4	11.70	254	120	3	166
22.5	0.4	14.41	248	121	3	163
26.25	0.4	17.11	239	121	3	159
30	0.4	19.80	244	120	3	157
33.75	0.4	22.44	246	120	3	153
37.5	0.4	24.95	253	120	3	146
41.25	0.4	27.47	257	120	3	143
45	0.4	29.94	259	120	3	140
Total		61.38	2701	1442		
Average			268.45	120.33		

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	PROBE Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP
3.75	0.4	2.42	212	120	8	193
7.5	0.4	4.83	228	120	8	186
11.25	0.4	7.05	235	120	8	176
15	0.4	9.33	246	120	9	168
18.75	0.4	11.70	254	120	9	166
22.5	0.4	14.41	248	121	9	163
26.25	0.4	17.11	239	121	10	159
30	0.4	19.80	244	120	10	157
33.75	0.4	22.44	246	120	10	153
37.5	0.4	24.95	253	120	10	146
41.25	0.4	27.47	257	120	10	143
45	0.4	29.94	259	120	10	140
Total		61.38	2701	1442		
Average			268.45	120.33		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 6

Client	Big Rivers
Plant	Wilson
Location	ESP Out #4
Date	7/19/11
Project No.	
Meter Reader	Kapit

[N][Up]

Gas flow [in] or [out] of page

Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-20
Ambient Temp. (°F)	
Start Time	13:01
Stop Time	

Sample Train A

Trap ID		Meter ID		Yd	
Pre Leak Check			lpm @		(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Sample Train B

Trap ID		Meter ID		Yd	
Pre Leak Check			lpm @		(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 29.79	Probe Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP Notes
48.75	0.4	32.19	284	120	3	156
52.5	0.4	34.51	288	121	3	154
56.25	0.4	37.00	290	121	3	150
60	0.4	39.78	292	121	3	146
63.75	0.4	42.56	294	121	4	143
67.5	0.4	45.30	295	120	4	140
71.25	0.4	48.20	296	120	4	138
75	0.4	51.15	293	120	4	133
78.75	0.4	53.61	296	120	4	129
82.5	0.4	57.01	299	120	4	131
86.25	0.4	59.97	302	120	4	134
90	0.4	62.80	293	120	4	136
Total		62.80	3252	1444		
Average			248.45	120.25		

Min/Point 7.5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 29.94	PROBE Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP TEMP Notes
48.75	0.4	32.41	284	121	11	156
52.5	0.4	33.85	288	121	11	154
56.25	0.4	37.45	290	121	11	156
60	0.4	40.05	292	121	11	146
63.75	0.4	42.49	294	121	11	143
67.5	0.4	45.00	295	120	11	140
71.25	0.4	47.60	296	120	11	138
75	0.4	50.17	293	120	11	133
78.75	0.4	52.99	296	120	11	129
82.5	0.4	55.80	298	120	11	131
86.75	0.4	58.64	302	120	12	134
90	0.4	61.38	293	120	12	136
Total		61.38	3550	1445		
Average			268.45	120.39		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

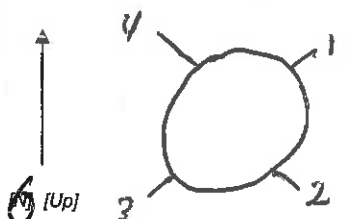
TESTING TYPE: Particulate

RUN NO. 4

METHOD NO. 5/202

Page 1 of 1

Client	Big Rivers						
Plant	Wilson						
Location	Wilson outlet						
Date	7/19/11	Project No.	3648				
Meter Operator	SH						
Probe Operator	EA						
Meter ID	M-16	Yd	.9907	Pitot Cp	.84		
ΔH@	1.845	Kf	6.8	Leak check	✓		
Pre Leak Check	SH .00	[cfm] [lpm] @		15	(inHg)		
Post Leak Check	.00	[cfm] [lpm] @		18	(inHg)		



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)	85	Silica gel (g)	
Static (inH2O)	-.2	Total Vlc	
Probe ID	EA AE5-10-1	Liner Type	
Nozzle ID	314 ~~370~~	Nozzle Dia (in)	.370
Filter ID	12194	—	—
Train ID	1B 13	Train Type	Imp
Duct Dim. (in)	408	Port Lngth (in)	12.25
Start Time	7:03	Stop Time	8:43

Traverse Point	Min/Point 7.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 260.00	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	7.5	~~.26~~ .25	1.7	265.56	131	321	318	62	96	95	10	91		
2	15	.24	1.6	270.90	130	321	320	67	97	95	9	~~58~~ 90		
3	22.5	.27	1.8	276.48	131	320	321	66	100	95	10	89		
1	30	.26	1.8	282.10	130	322	320	65	104	96	10	88		
2	37.5	.27	1.8	287.72	131	319	319	64	107	97	10	88		
3	45	.24	1.6	293.19	130	320	320	64	109	99	9	87		
1	52.5	.24	1.6	298.42	130	320	320	64	107	100	8	87		
2	60	.26	1.8	303.96	131	319	319	63	112	102	9	86		
3	67.5	.23	1.6	309.43	131	319	319	64	114	103	9	86		
1	75	.25	1.7	314.90	130	320	321	64	116	104	9	85		
2	82.5	.26	1.8	320.57	130	320	320	65	117	105	9	85		
3	90	.25	1.7	326.15	130	319	319	66	118	106	9	85		
Total		6.0182	20.5	66.15	1565				1297	1196				
Average		.5015	~~1.710~~ 1.7083	SH	130.4167				103.875					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

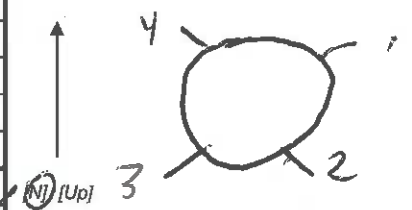
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 2 5 METHOD NO. 5/202 Page 1 of 1

Client	Big Rivers						Barometric (inHg)	29.56	Water [ml] [g]	
Plant	Wilson						Ambient Temp (°F)	90	Silica gel (g)	
Location	Wilson Outlet						Static (inH2O)	-.2	Total Vlc	
Date	7/19/11	Project No.	3648				Probe ID	CE DE 5.16.1	Liner Type	Glass
Meter Operator	SH						Nozzle ID	.312 .370	Nozzle Dia (in)	.370
Probe Operator	EA						Filter ID	121 95		
Meter ID	Mylb	Yd	.9907	Pitot Cp	.84		Train ID	1B -4	Train Type	Imp
ΔH@	1.845	Kf	6.8	Leak check	✓		Duct Dim (in)	408	Port Lngth (in)	17.25
Pre Leak Check	000	[cfm] [lpm] @	15	(inHg)						
Post Leak Check	000	[cfm] [lpm] @	15	(inHg)			Start Time	10:03	Stop Time	11:48



Cross Section of Duct

Traverse Point	Min/Point 7.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 327.60	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	7.5	.26	1.5	333.32	131	319	320	68	100	101	9	87		
2	15	.27	1.8	339.05	131	318	319	68	102	101	9	87		
3	22.5	.24	1.6	344.53	130	320	320	67	106	101	8	86		
1	30	.24	1.6	349.98	131	320	321	66	108	101	8	87		
2	37.5	.24	1.6	355.54	131	320	320	66	110	102	8	88		
3	43	.20	1.4	360.55	131	320	319	65	112	103	8	88		
1	52.5	.23	1.6	365.89	131	321	319	66	111	104	8	87		
2	60	.27	1.8	371.76	131	318	318	66	114	104	9	87		
3	67.5	.28	1.9	377.61	131	319	319	64	113	105	9	86		
1	75	.26	1.8	383.41	130	320	320	63	114	106	9	86		
2	82.5	.27	1.8	389.91	131	320	321	62	114	106	9	85		
3	90	.26	1.8	394.99	131	319	320	62	115	106	9	84		
Total		6.0236	20.5	67.39	1570				1316	1240				
Average		.5020	1.7083		130.83				109.5					

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

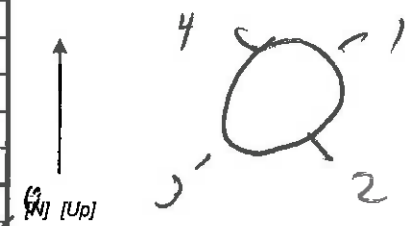
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

RUN NO. 6 **METHOD NO.** 5/202 Page 1 of 1

Client	Big Rivers						Barometric (inHg)	29.56	Water [ml] [g]	
Plant	Wilson						Ambient Temp (°F)	95	Silica gel (g)	
Location	Wilson Outlet						Static (inH2O)	-.2	Total Vlc	
Date	7/19/11	Project No.	3648				Probe ID	AES 10-1	Liner Type	glass
Meter Operator	CH						Nozzle ID	770	Nozzle Dia (in)	.370
Probe Operator	EA						Filter ID	12183		
Meter ID	M-16	Yd	.9907	Pitot Cp	.84		Train ID	1B	Train Type	IMP
ΔH@	1.845	Kf	16.8	Leak check	✓		Duct Dim. (in)	408	Port Lngth (in)	17.25
Pre Leak Check	.008	[cfm]	[lpm] @	15	(inHg)					
Post Leak Check	.000	[cfm]	[lpm] @	20	(inHg)		Start Time	13:01	Stop Time	14:48



First point all the way [in] [out]

Gas flow [in] [out] of page

Cross Section of Duct

Traverse Point	Min/Point 7.5 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [l] 395.72	Stack Temp (°F)	Probe Temp (°F) 320	Filter Temp (°F) 320	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	7.5	.25	1.7	401.21	130	324	315	68	101	96	10	90		
2	15	.26	1.8	406.71	129	319	319	67	103	102	11	89		
3	22.5	.24	1.6	412.22	130	319	322	66	106	102	11	89		
1	30	.27	1.8	417.75	129	320	319	64	109	102	11	88		
2	37.5	.25	1.7	423.36	131	319	319	64	111	103	12	88		
3	45	.24	1.6	428.85	130	319	321	63	112	104	11	87		
1	52.5	.27	1.8	434.56	127	321	320	63	113	104	11	87		
2	60	.26	1.8	440.31	127	322	320	62	114	105	12	86		
3	67.5	.23	1.6	445.80	130	319	320	62	115	105	11	87		
1	75	.28	1.9	451.47	130	321	319	61	115	106	11	87		
2	82.5	.25	1.7	~~446.96~~	131	321	320	60	116	107	12	86		457.52 Gas Sample Vol
3	90	.24	1.6	462.70	131	319	319	66	116	107	12	85		
Total		6.0375	20.6	(66.98)	1555				1371	1243				
Average		(.5031)	(1.7167)		(129.58)				(107.25)					

Circle correct bracketed [.] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

Impinger Weights Data Sheet

PROJECT NO: 364

Page 1 of 1

Client:	BE Rivers
Plant:	Belews
Location:	Stack
Date:	2/19/14
Operator:	BC

Run No:	4			
Method No:	SB/202	Train ID:		Filter No:

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	461.0	642.5	-30	
Impinger No. 2	DI	567.0	579.0		
Impinger No. 3	Empty	532.0	554.0		
Impinger No. 4	Silica	877.5	901.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No:	5			
Method No:	SB/202	Train ID:		Filter No:

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	565.0	582.0	-30	
Impinger No. 2	DI	715.0	719.0		
Impinger No. 3	Empty	640.5	645.0		
Impinger No. 4	Silica	910.0	954.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No:	6			
Method No:	SB/202	Train ID:		Filter No:

	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	451	207.5	-30	
Impinger No. 2	DI	567.0	585.5		
Impinger No. 3	Empty	546.0	575.5		
Impinger No. 4	Silica	900.2	921.4		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

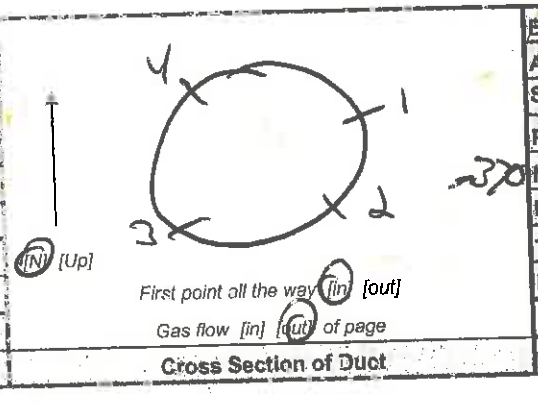
TESTING TYPE: HCL

RUN NO. 4

METHOD NO. 26A

Page 1 of 1

Client	Bq Rivas						
Plant	D.B. Wilson						
Location	Outlet						
Date	7/20/11	Project No.	3648				
Meter Operator	EA						
Probe Operator	SH						
Meter ID	M-3	Yd	.9891	Pitot Cp	.84		
ΔH@	1.807	Kf	~~.7285~~ .7284	Leak check	—		
Pre Leak Check	.000	[cfm] [lpm] @	17	(inHg)			
Post Leak Check	—	[cfm] [lpm] @	13	(inHg)			



Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH2O)	-.2	Total Vlc	
Probe ID	B-12-4	Liner Type	TFE
Nozzle ID	.370	Nozzle Dia (in)	.370
Filter ID	N/A		
Train ID	FB 14	Train Type	IMP
Duct Dim. (in)	4.08	Port Lngth (in)	17.25
Start Time	840	Stop Time	1055

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial (ft³) [l] 942.40	Stack Temp (°F)	Probe Temp (°F) 260	Filter Temp (°F) 260	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)		Notes
1	10	.25	1.9	960.00	131	261	261	68	94	94	10	N/A		
2	20	.23	1.8	957.67	132	263	262	68	94	93	10			
3	30	.23	1.8	965.27	132	263	264	67	97	94	10			
1	40	.26	2.0	973.15	132	262	263	67	100	94	11			
2	50	.22	1.7	980.56	132	261	261	67	102	95	10			
3	60	.19	1.5	987.55	132	261	261	66	103	96	8			
1	70	.24	1.9	995.30	132	258	260	66	106	97	11			
2	80	.22	1.7	1002.77	132	258	261	66	106	98	10			
3	90	.22	1.7	1010.25	132	261	262	66	107	99	10			
1	100	.25	1.9	1018.05	131	262	262	66	108	100	11			
2	110	.24	1.9	1025.92	132	263	262	66	108	100	11			
3	120	.22	1.7	1033.31	132	263	262	66	108	100	10			
Total		5.7609	21.5	90.91	1582				1233	1160				
Average		.4801	1.7917		131.8					99.7				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

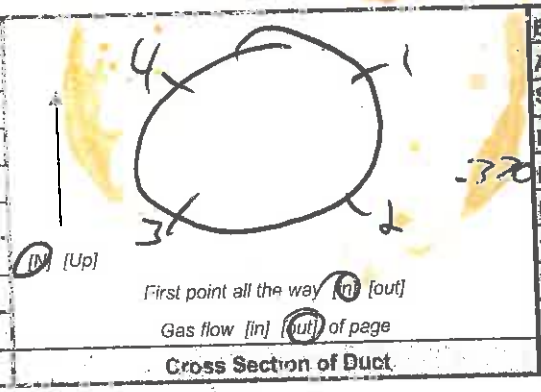
TESTING TYPE: HCL

RUN NO. ~~4~~ 5

METHOD NO. 26A

Page 1 of 1

Client	Big Rivers						
Plant	D.B. Wilson						
Location	Outlet						
Date	7/20/11	Project No.	3648				
Meter Operator	EA						
Probe Operator	SH						
Meter ID	M-3	Yd	.9891	Pitot Cp	.84		
ΔH@	1.807	Kf	17.75	Leak check	—		
Pre Leak Check	.000	[cfm] [lpm] @	19	(inHg)			
Post Leak Check	.000	[cfm] [lpm] @	12	(inHg)			



Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	95	Silica gel (g)	
Static (inH_2O)	-.20	Total Vlc	
Probe ID	~~S-12~~ S-12H	Liner Type	TFE
Nozzle ID	~~.372~~ .370	Nozzle Dia (in)	.370
Filter ID	MA	—	—
Train ID	4B23	Train Type	Dry
Duct Dim. (in)	408	Port Length (in)	17.25
Start Time	1204	Stop Time	1414

Traverse Point	Min/Point 12 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial [ft^3] [l] ~~39.85~~	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
						260	260							
1	10	.26	2.0	41.45	132	261	259	67	97	97	11	N/A		
2	20	.24	1.9	49.15	132	261	262	67	99	97	11			
3	30	.21	1.6	56.56	132	260	262	67	102	97	10			
1	40	.25	1.9	63.97	132	260	261	65	105	98	11			
2	50	.24	1.9	71.58	132	264	262	65	107	99	11			
3	60	.22	1.7	78.99	132	263	262	65	108	100	10			
1	70	.23	1.8	86.50	132	263	263	64	108	101	11			
2	80	.22	1.7	93.85	132	262	263	63	109	101	10			
3	90	.19	1.5	100.91	132	262	262	62	109	102	9			
1	100	.22	1.7	108.23	132	262	262	62	110	102	9			
2	110	.22	1.7	115.50	132	262	262	62	111	102	9			
3	120	.18	1.4	122.20	132	262	262	62	111	102	9			
Total		5.675	20.2	(88.35)	1584				1296	1198				
Average		(.4729)	(1.733)		(132.0)				(123.1)					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

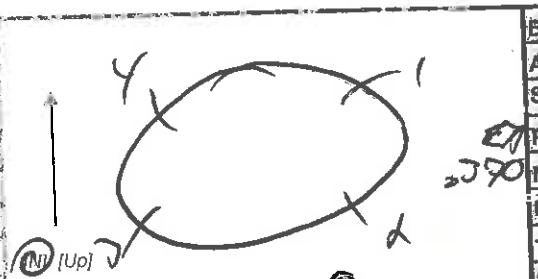
General Testing Data Sheet

TESTING TYPE: HCl

RUN NO. ~~3~~ 6 METHOD NO. 26A

Page 1 of 1

Client	Big Rivers						
Plant	P.B. Watson						
Location	Outlet						
Date	6/20/11	Project No.	3648				
Meter Operator	EA						
Probe Operator	SH						
Meter ID	M-3	Yd	.9891	Pitot Cp	.84		
ΔH@	1.807	Kf	17.75	Leak check	-		
Pre Leak Check	.000	[cfm] [lpm] @	17	(inHg)			
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)			



Cross Section of Duct

Barometric (inHg)	29.50	Water [ml] [g]	
Ambient Temp (°F)	93	Silica gel (g)	
Static (inH_2O)	-.2	Total Vic	
Probe ID	S-12-4	Liner Type	TFE
Nozzle ID	.390	Nozzle Dia (in)	.390
Filter ID	N/A		
Train ID	FB21	Tram Type	FMP
Duct Dim. (in)	408	Port Length (in)	17.25
Start Time	1520	Stop Time	1735

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	Gas Sample Volume Initial (dcf) [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
				22.60		260	260							
1	10	.24	1.9	130.58	132	261	261	66	100	100	12	N/A		
2	20	.24	1.9	138.37	132	262	260	66	100	100	12			
3	30	.21	1.6	145.60	132	262	262	66	103	99	11			
1	40	.25	1.9	153.17	132	262	262	65	106	100	12			
2	50	.23	1.8	161.00	132	261	262	65	108	100	12			
3	60	.19	1.5	167.98	132	260	261	65	109	101	10			
1	70	.26	2.0	175.88	132	260	261	65	110	101	13			
2	80	.24	1.9	183.73	132	262	261	64	111	103	12			
3	90	.24	1.9	191.50	132	262	261	64	111	103	12			
1	100	.23	1.8	199.15	132	262	261	64	111	104	12			
2	110	.21	1.6	206.35	132	261	261	64	112	104	11			
3	120	.21	1.6	213.52	132	261	261	64	112	104	11			
Total		5.7393	21.4	90.92	1584				1293	1220				
Average		.4783	1.7833		132				107.7					

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 364

Page 1 of 1

Client	BIG RIVER
Plant	BOILER
Location	STACK
Date	2/20/14 Unit
Operator	BL

Run No.	4				
Method No.	26	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	663.5	~~[illegible]~~ 1	-50	7:03.0
Impinger No. 2	H2SO4	677.1	~~[illegible]~~		7:25.0
Impinger No. 3	Empty	617.7	636.5		
Impinger No. 4	Silica	926.3	947.3		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	26	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	711	942	-50	
Impinger No. 2	H2SO4	737	806		
Impinger No. 3	EMPTY	507	527		
Impinger No. 4	Silica	877	907		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	26	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H2SO4	662.5	682.0	-50	
Impinger No. 2	H2SO4	673.4	670.0		
Impinger No. 3	EMPTY	624.0	673.5		
Impinger No. 4	Silica	979.9	1016.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

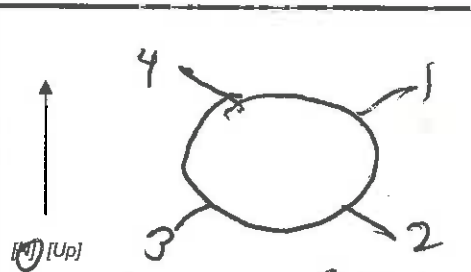
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. 4 METHOD NO. 29 Page 1 of 1

Client	Big Rivers				Barometric (inHg)	29.80	Water [ml] [g]	
Plant	Wilson				Ambient Temp (°F)	90-95	Silica gel (g)	
Location	Wilson Outlet				Static (inH2O)	-.2	Total Vlc	
Date	7/20/11	Project No.	3648		Probe ID	AE 5-10-1	Liner Type	glass
Meter Operator	SH				Nozzle ID	.312	Nozzle Dia (in)	.312
Probe Operator	EA				Filter ID	NA		
Meter ID	M-16	Yd	9907	Pitot Cp	Train ID	16 15 405	Train Type	imp
ΔH@	1.845	Kf	7.4	Leak check	Duct Dim. (in)		Port Lngth (in)	67.25
Pre Leak Check	.006	[cfm] [lpm] @	15	(inHg)				
Post Leak Check	.000	[cfm] [lpm] @	15	(inHg)	Start Time	8:40	Stop Time	10:55



Cross Section of Duct

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH2O)	Orifice Setting ΔH (inH2O)	Gas Sample Volume Initial [ft³] [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
				463.39		250	250							
1	10	.25	1.9	471.33	131	248	248	68	105	103	7	N/A		
2	20	.23	1.7	478.72	132	250	252	68	113	103	7			
3	30	.22	1.6	485.95	132	250	250	67	117	105	6			
1	40	.24	1.8	493.54	132	250	250	66	118	106	7			
2	50	.23	1.7	500.99	132	250	250	65	119	107	7			Changed K-factor to 7.2
3	60	.21	1.5	508.02	132	250	250	64	119	108	6			
1	70	.24	1.7	515.45	132	249	249	63	119	108	7			
2	80	.24	1.7	522.85	132	250	251	62	119	109	7			
3	90	.23	1.7	530.25	133	250	250	64	119	110	7			
1	100	.22	1.6	537.48	132	250	250	62	119	110	7			
2	110	.23	1.7	544.85	132	250	250	61	119	110	7			
3	120	.22	1.6	552.09	132	249	249	60	120	116	7			
Total		5.7534	20.2	88.70	1584				1406	1289				
Average		.4795	1.683		132				112.2917					

Circle correct bracketed [ ] units

Train Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

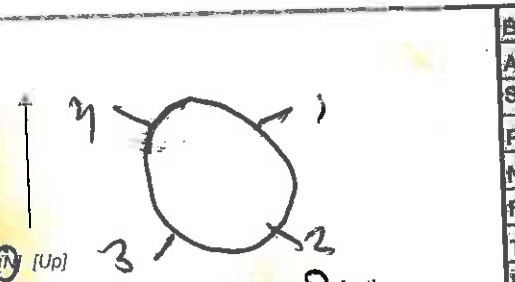
General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. #5 METHOD NO. 29

Page 1 of

Client	Big Rivers			Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Wilson			Ambient Temp (°F)	90s 95	Silica gel (g)	
Location	Wilson Outlet			Static (inH_2O)	-.2	Total Vlc	
Date	7/20/11	Project No.	3648	Probe ID	AE S-10-1	Liner Type	9 ASS
Meter Operator	SH			Nozzle ID	.312	Nozzle Dia (in)	.312
Probe Operator	EA			Filter ID	N/A	—	—
Meter ID	M16	Yd	.9907	Pitot Cp	.84	Train ID	1B4
ΔH@	1.845	Kf	6.8	Leak check	✓	Train Type	Imp
Pre Leak Check	.000	(cfm) [lpm] @	15	(inHg)		Duct Dim. (in)	40.8
Post Leak Check	000	(cfm) [lpm] @	15	(inHg)		Port Length (in)	17.25



Cross Section of Duct

Start Time	12:05	Stop Time	1414

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				552.33		250	250							
1	10	.23	1.6	559.44	132	250	280	68	106	105	6	N/A		
2	20	.24	1.6	566.52	132	250	252	67	112	105	6			
3	30	.19	1.3	573.08	132	250	250	67	116	106	6			
1	40	.24	1.6	580.20	132	250	250	66	117	107	6			
2	50	.21	1.4	[illegible]	132	250	250	65	118	108	6			587.04 Gas Sample
3	60	.21	1.4	593.85	132	250	250	64	119	108	6			
1	76	.24	1.6	601.03	132	250	250	63	119	109	7			
2	80	.22	1.5	608.13	132	250	250	63	120	110	7			
3	90	.21	1.4	614.97	132	250	249	62	120	110	6			
1	100	.25	1.7	622.30	132	250	250	61	120	111	7			
2	110	.23	1.6	629.54	132	250	250	62	120	111	7			
3	120	.20	1.4	636.54	132	250	250	63	120	111	7			
Total		56558	18.1	84.21	1584				1407	1301				
Average		.4713	1.5083		132				112.83					

Circle correct bracketed [ ] units

Imp Type denotes impingers, knockouts, etc.

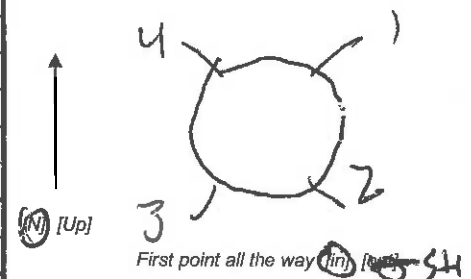
AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

RUN NO. ~~8~~ 6 **METHOD NO.** 29 **Page** 1 **of** 1

Client	Big Rivers				Barometric (inHg)	29.50	Water [ml] [g]	
Plant	Wilson				Ambient Temp (°F)	95	Silica gel (g)	
Location	Wilson Outlet				Static (inH_2O)	-.2	Total Vlc	
Date	7/11/11	Project No.	3645		Probe ID	AES-10-1	Liner Type	Glass
Meter Operator	SH				Nozzle ID	.312	Nozzle Dia (in)	.312
Probe Operator	EA				Filter ID	N/A		
Meter ID	M-16	Yd	.9907	Pitot Cp	.84	Train ID	16-15	Train Type	Imp
ΔH@	1.845	Kf	16.8	Leak check	✓	Duct Dim. (in)	408	Port Lngth (in)	17.25
Pre Leak Check	.000	[cfm] [lpm] @	15	(inHg)					
Post Leak Check	.000	[cfm] [lpm] @	12	(inHg)		Start Time	15:20	Stop Time	17:25



Cross Section of Duct

Traverse Point	Min/Point 10 Elapsed Time	Velocity Pressure ΔP (inH_2O)	Orifice Setting ΔH (inH_2O)	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
				636.90		250	250							
1	10	.24	1.6	643.76	131	250	250	68	102	102	6	N/A		
2	20	.21	1.4	650.64	132	252	258	67	108	103	6			
3	30	.21	1.4	657.40	132	250	251	66	111	103	6			
1	40	.26	1.8	664.99	132	250	250	65	114	105	7			
2	50	.24	1.6	672.15	132	250	250	64	116	106	7			
3	60	.20	1.4	678.99	132	249	249	65	117	107	6			
1	70	.25	1.7	686.40	133	250	250	64	118	107	7			
2	80	.22	1.5	693.45	132	250	250	62	119	109	7			
3	90	.21	1.4	700.36	133	250	249	60	120	109	6			
1	100	.25	1.7	707.69	132	251	251	59	120	110	7			
2	110	.23	1.6	714.96	132	250	250	62	121	111	7			
3	120	.22	1.5	722.12	133	250	250	62	121	111	7			
Total		5.7294	18.6	85.22	1586				1387	1283				
Average		.4774	1.55		132.1667				111.25					

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3240

Page 1 of 1

Client	Big River
Plant	Dearborn
Location	Stack
Date	7/30/24 Unit
Operator	BL

Run No.	4				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	634.2	817.0	46	
Impinger No. 2	5% 10%	744.0	800.2		
Impinger No. 3	5% 10%	714.5	748.5		
Impinger No. 4	EMPTY	635.0	647.8		
Impinger No. 5	Silica	685.6	714.6		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	5				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	641	915.5	42	
Impinger No. 2	5% 10%	744	787.0		
Impinger No. 3	5% 10%	706	719.7		
Impinger No. 4	EMPTY	693	645.0		
Impinger No. 5	Silica	900	924.0		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	6				
Method No.	29	Train ID		Filter No.	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	EMPTY	637.0	930.7	50	
Impinger No. 2	5% 10%	743.0	787.5		
Impinger No. 3	5% 10%	722.2	731.1		
Impinger No. 4	EMPTY	637.0	638.5		
Impinger No. 5	Silica	414.5	427.5		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

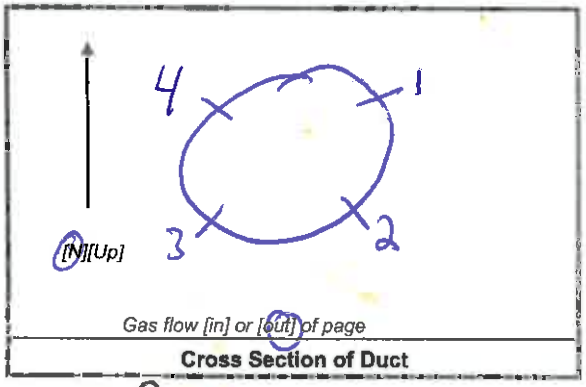
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Page	1	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	Outlet
Date	7/19/4
Project No.	3648
Meter Reader	EA



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-.2
Ambient Temp. (^{0}F)	85
Start Time	703
Stop Time	833

Sample Train A

Trap ID	94350	Meter ID	RB0754	Yd	1.0000 .9928
Pre Leak Check	.001	lpm @	12	(in. Hg)	
Post Leak Check	.001	lpm @	10	(in. Hg)	

Sample Train B Spiked

Trap ID	72490	Meter ID	RB0754	Yd	1.0000 .9956
Pre Leak Check	.002	lpm @	15	(in. Hg)	
Post Leak Check	.001	lpm @	10	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Trap Notes
5	.40	1.875	134	91	4	244
10	↓	3.864	134	91	4	244
15		5.763	134	91	4	244
20		7.798	134	91	4	243
25		9.792	134	91	4	243
30		11.802	134	92	4	243
35		13.822	134	92	4	243
40		15.798	134	92	4	243
45		17.779	134	93	4	243
50		19.766	134	93	4	244
55		21.799	134	93	4	244
60	↓	23.813	134	94	4	244
Total		23.813	1608	1104		
Average			134.0	92.8		

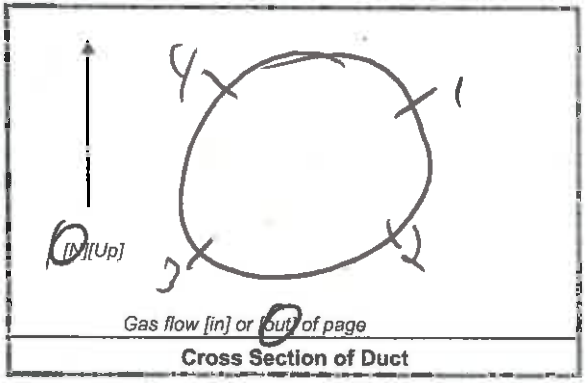
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Trap Notes
5	.40	1.790	134	92	5	244
10	↓	3.587	134	92	5	244
15		5.618	134	92	5	244
20		7.219	134	93	5	243
25		9.843	134	94	5	243
30		11.975	134	94	5	243
35		13.977	134	94	5	243
40		16.013	134	94	5	243
45		18.007	134	94	5	243
50		20.001	134	94	5	244
55		21.811	134	94	5	244
60	↓	23.280	134	95	5	244
Total		23.280	1608	1124		
Average			134.0	94.3		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R4

Client	Big Rivers
Plant	D.B. Wilson
Location	Outlet
Date	7/19/11
Project No.	3648
Meter Reader	EA



Barometric (in. Hg)	29.56
Static (inH_2O)	-.2
Ambient Temp. (°F)	85
Start Time	703
Stop Time	833

Sample Train A

Trap ID	94350	Meter ID	R1907A	Yd	.9928
Pre Leak Check	.001	lpm @	12	(in. Hg)	
Post Leak Check	.001	lpm @	10	(in. Hg)	

Min/Point 5	Flow Meter Setting	Gas Sample Initial [I] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time						
65	.40	25.800	134	94	5	244
70		27.792	134	94	5	244
75		29.777	134	94	5	244
80		31.859	134	95	5	244
85		33.903	134	95	5	244
90	↓	36.034	134	95	5	244
					5	
Total		36.034	804	567		
Average			134.0	92.8		

Sample Train B Spiked

Trap ID	72490	Meter ID	R403B	Yd	.9956
Pre Leak Check	.002	lpm @	15	(in. Hg)	
Post Leak Check	.001	lpm @	10	(in. Hg)	

Min/Point 5	Flow Meter Setting	Gas Sample Initial [I] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time						
65	.40	25.752	134	95	5	244
70		27.735	134	95	5	244
75		29.779	134	95	5	244
80		31.797	134	96	5	244
85		33.856	134	96	5	244
90	↓	35.990	134	96	5	244
Total		3	804	573		
Average			134.0	94.3		

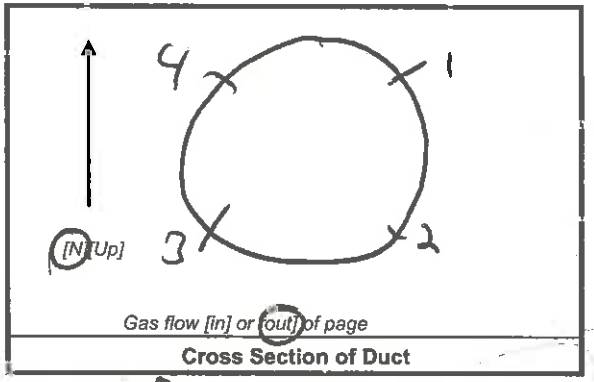
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. ~~RS~~ S

Page	1	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	Outlet
Date	7/19/11
Project No.	3648
Meter Reader	EA



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-.2
Ambient Temp. (°F)	~~90~~
Start Time	1003
Stop Time	1133

Sample Train A

Trap ID		Meter ID	R1907SA	Yd	.9998 (1.0000)
Pre Leak Check	.000	lpm @	11	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Sample Train B (Sp. Lead)

Trap ID	52493	Meter ID	R1907SB	Yd	.9956 (1.0000)
Pre Leak Check	.000	lpm @	10	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Min/Point 2 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Trap Notes
5	.40	2.015	133	94	5	243
10		4.111	133	94	5	243
15		6.180	133	94	5	243
20		8.174	133	94	5	243
25		10.194	133	94	5	243
30		12.166	133	94	5	243
35		14.107	133	94	5	243
40		16.099	133	94	5	243
45		18.111	134	95	5	243
50		19.972	134	95	5	243
55		21.970	134	95	5	243
60		24.030	134	95	5	243
Total		35.754	1600	1132		
Average			133.6	94.9		

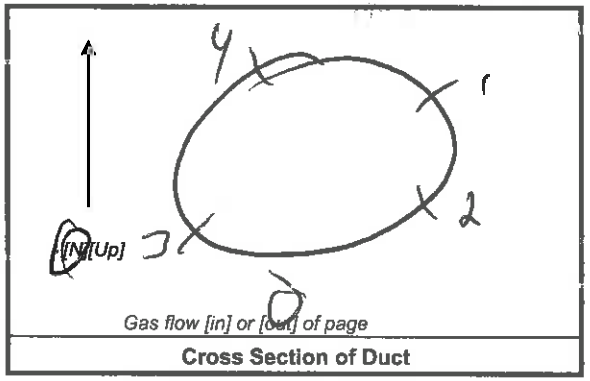
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Trap Notes
5	.40	2.009	133	95	5	243
10		3.915	133	95	5	243
15		5.719	133	95	5	243
20		7.767	133	95	5	243
25		9.783	133	95	5	243
30		11.888	133	95	5	243
35		14.010	133	95	5	243
40		16.051	133	95	5	243
45		18.020	134	96	5	243
50		20.000	134	96	5	243
55		21.990	134	96	5	243
60		23.936	134	96	5	243
Total		36.027	1600	1144		
Average			133.6	95.4		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2 S

Client	Big Rivers
Plant	D.B. Wilson
Location	Outlet
Date	7/19/11
Project No.	3648
Meter Reader	EA



Gas flow [in] or [out] of page

Cross Section of Duct

Barometric (in. Hg)	29.86
Static (inH_2O)	-2
Ambient Temp. (°F)	90
Start Time	1003
Stop Time	1133

Sample Train A

Trap ID	94406	Meter ID	RM07SA	Yd	.9928
Pre Leak Check	.000		lpm @	11	(in. Hg)
Post Leak Check	.000		lpm @	10	(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.40	25.955	134	96	5	243
70		28.111	134	96	5	243
75		29.958	134	96	5	243
80		31.917	134	96	5	243
85		33.859	134	96	5	243
90		35.784	134	96	5	243
Total		35	804	576		
Average			133.6	96.9		

Sample Train B

Trap ID	72493	Meter ID	RM07SB	Yd	.9956
Pre Leak Check	.000		lpm @	10	(in. Hg)
Post Leak Check	.000		lpm @	10	(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.40	25.867	134	97	5	243
70		27.750	134	97	5	243
75		29.842	134	97	5	243
80		31.900	134	97	5	243
85		33.917	134	97	5	243
90		36.027	134	97	5	243
Total		36.027	804	582		
Average			133.6	97.0		

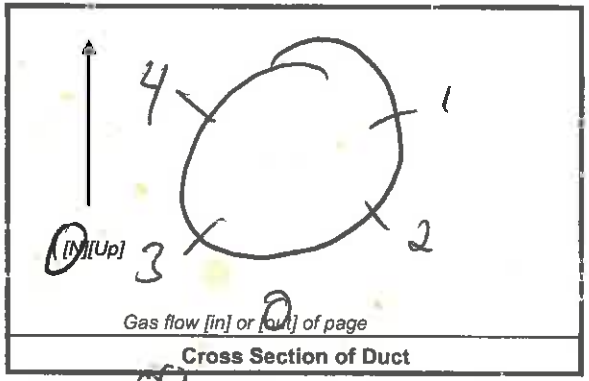
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. ~~TB~~ 6

Page	1	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	Outlet
Date	7/19/11
Project No.	3648
Meter Reader	EA



Cross Section of Duct

Barometric (in. Hg)	29.56
Static (inH_2O)	-.2
Ambient Temp. (°F)	95
Start Time	1303
Stop Time	1433

Sample Train A

Trap ID	95037	Meter ID	R907SA	Yd	.9928 (1.0000)	
Pre Leak Check	.000	lpm @	15			(in. Hg)
Post Leak Check	.000	lpm @	9			(in. Hg)

Sample Train B (Spiked)

Trap ID	72499	Meter ID	R907SB	Yd	.9928 (1.0000)	
Pre Leak Check	.000	lpm @	12			(in. Hg)
Post Leak Check	.000	lpm @	9			(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP Notes
5	.40	2.140	134	95	5	243
10		4.170	134	95	5	243
15		6.154	134	95	5	243
20		8.136	134	95	5	243
25		10.136	134	95	5	243
30		12.130	134	95	5	243
35		14.089	134	95	5	243
40		16.062	134	95	5	243
45		18.012	134	96	5	243
50		20.011	134	96	5	243
55		21.946	134	96	5	243
60		23.906	134	96	5	243
Total		23.906	1608	1144		
Average			133.7	95.6		

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	TRAP Notes
5	.40	2.214	134	96	5	243
10		4.156	134	96	5	243
15		6.003	134	96	5	243
20		7.865	134	96	5	243
25		9.682	134	96	5	243
30		11.717	134	96	5	243
35		13.989	134	96	5	243
40		16.032	134	96	5	243
45		18.032	134	97	5	243
50		20.011	134	97	5	243
55		21.900	134	97	5	243
60		23.968	134	97	5	243
Total		23.968	1608	1156		
Average			(134)	(96.6)		

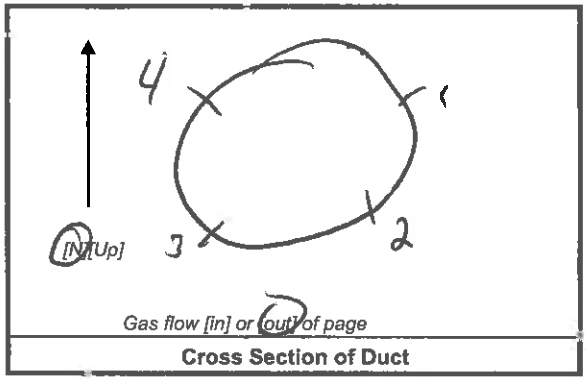
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. #B C

Page	2	of	2

Client	Big River
Plant	D.B. Wilson
Location	Outlet
Date	7/19/11
Project No.	3648
Meter Reader	EA



Cross Section of Duct

Barometric (in. Hg)	29.86
Static (inH_2O)	-.2
Ambient Temp. (°F)	93
Start Time	1303
Stop Time	1433

Sample Train A

Trap ID	98037	Meter ID	R19075A	Yd	.9928
Pre Leak Check	.000	lpm @	12	(in. Hg)	
Post Leak Check	.000	lpm @	9	(in. Hg)	

Min/Point: 5	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time		0.000				
65	.40	22.995	133	96	5	243
70	↓	27.902	133	96	5	243
75		29.898	133	96	5	243
80		32.132	133	96	5	243
85		34.208	133	96	5	243
90	↓	36.295	133	96	5	243
Total			798	576		
Average						

Sample Train B

Trap ID	72499	Meter ID	R19075B	Yd	.9956
Pre Leak Check	.000	lpm @	12	(in. Hg)	
Post Leak Check	.000	lpm @	9	(in. Hg)	

Min/Point: 5	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time		.0.000				
65	.40	25.895	133	97	5	243
70	↓	27.885	133	97	5	243
75		29.898	133	97	5	243
80		31.936	133	97	5	243
85		33.941	133	97	5	243
90	↓	35.952	133	97	5	243
Total			798	582		
Average						

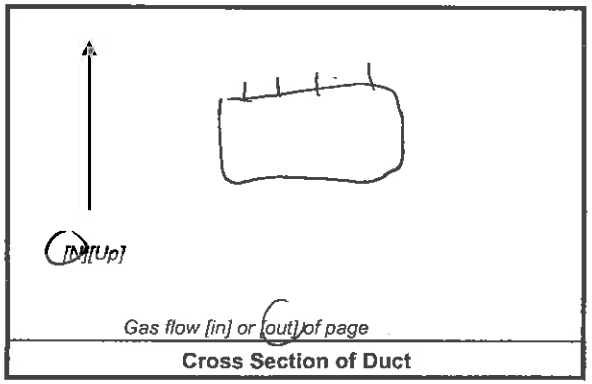
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 1, 4

Page	1	of	2

Client	Wke
Plant	DB Wilson
Location	~~ESP~~ SCR out 1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-17.2
Ambient Temp. (°F)	92
Start Time	9:28
Stop Time	10:58

Sample Train A 1.0072

Trap ID	94382	Meter ID	~~208~~	Yd	~~1.0071~~
Pre Leak Check	.060	lpm @	16	(in. Hg)	
Post Leak Check	.000	lpm @	18	(in. Hg)	

Sample Train B Spiked Rental 1.9985

Trap ID	94413	Meter ID		Yd	~~1.0071~~
Pre Leak Check	.000 .000	lpm @	16	(in. Hg)	
Post Leak Check		lpm @	10	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.48	346	102	7	
10	.5	5.12	346	105	7	
15	.5	7.68	346	110	7	
20	.5	10.22	346	112	7	
25	.5	12.42	346	113	8	
30	.5	14.90	346	113	8	
35	.5	17.36	346	114	8	
40	.5	19.82	346	115	6	
45	.5	22.36	346	115	8	
50	.5	24.91	346	115	8	
55	.5	27.41	346	115	8	
60	.5	~~29.82~~	346	115	8	
Total		44.76	~~4152~~	1344		
Average			346.33			

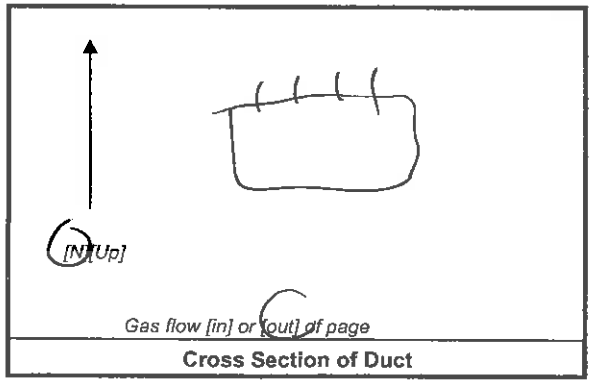
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.39	346	102	4	
10	.5	4.82	346	105	4	
15	.5	7.52	346	110	4	
20	.5	9.90	346	112	4	
25	.5	12.39	346	118	4	
30	.5	14.94	346	113	4	
35	.5	17.52	346	114	4	
40	.5	20.16	346	115	4	
45	.5	22.69	346	115	4	
50	.5	24.96	346	115	4	
55	.5	27.51	346	116	4	
60	.1	~~30.16~~	346	116	4	
Total		44.76	~~4152~~	1344		
Average			346.33			

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. X4

Client	Wilke
Plant	DB Wilson
Location	SCR ~~ESP~~ out 1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-1.2
Ambient Temp. (°F)	92
Start Time	9:28
Stop Time	10:58

Rental

Sample Train A

Trap ID	94582	Meter ID		Yd	1.0010
Pre Leak Check	.000	lpm @		16	(in. Hg)
Post Leak Check	.000	lpm @		18	(in. Hg)

Sample Train B Spiked Rental

Trap ID	94413	Meter ID		Yd	.9985
Pre Leak Check	.000	lpm @		16	(in. Hg)
Post Leak Check	.000	lpm @		10	(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0a	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	32.41	347	120	11	
70	.5	34.96	347	120	11	
75	.5	37.41	347	120	12	
80	.5	39.90	347	120	12	
85	.5	42.39	347	121	12	
90	.5	44.76	347	121	12	
Total		44.76	2082	612		
Average			346.33	108.66		

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	32.52	347	120	4	
70	.5	34.98	347	120	4	
75	.5	37.44	347	120	4	
80	.5	39.75	347	120	4	
85	.5	42.29	347	121	4	
90	.5	44.36	347	121	4	
Total		44.36	~~2082~~	~~612~~		
Average			346.33	108.66		

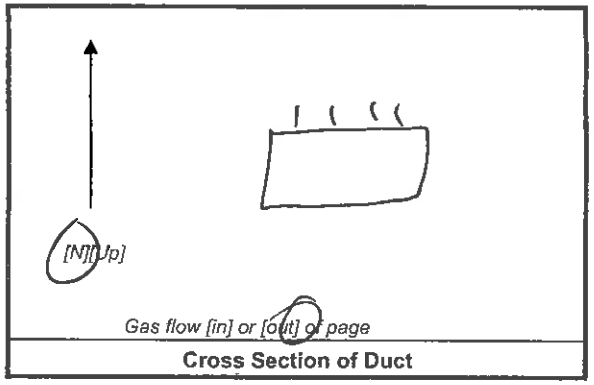
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Page	1	of 2

Client	WKE
Plant	DB Wilson
Location	SCR ESP #1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-17.2
Ambient Temp. (°F)	102
Start Time	12:37
Stop Time	14:07

Sample Train A — Rental

Trap ID	94460	Meter ID		Yd	1.0010
Pre Leak Check	1000	lpm @	16		(in. Hg)
Post Leak Check	1000	lpm @	21		(in. Hg)

Sample Train B — Spiked

Trap ID	94364	Meter ID		Yd	.9985
Pre Leak Check	1000	lpm @	14		(in. Hg)
Post Leak Check	1000	lpm @	8		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time 5		0.00				
5	.5	2.62	303	108	8	
10	.5	5.19	303	109	9	
15	.5	7.21	303	110	9	
20	.5	9.51	303	110	9	
25	.5	12.03	303	111	9	
30	.5	14.59	303	112	9	
35	.5	17.98	303	114	9	
40	.5	20.46	303	116	9	
45	.5	~~22.70~~	303	117	9	vol 22.70
50	.5	~~25.31~~	303	117	9	vol 25.13
55	.5	27.31	303	118	9	
60	.5	29.40	303	118	9	
Total		41.80	~~3876~~	~~1360~~		
Average			303	116.55		

Min/Point	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time 5		0.00				
5	.5	2.36	303	108	3	
10	.5	4.69	303	109	4	
15	.5	7.14	303	110	4	
20	.5	9.42	303	110	4	
25	.5	11.96	303	111	4	
30	.5	14.39	303	112	4	
35	.5	16.87	303	114	4	
40	.5	19.16	303	116	4	
45	.5	21.56	303	117	4	
50	.5	24.01	303	117	4	
55	.5	26.39	303	118	4	
60	.5	28.89	303	118	4	
Total			~~3876~~	~~1360~~		
Average			303	116.55		

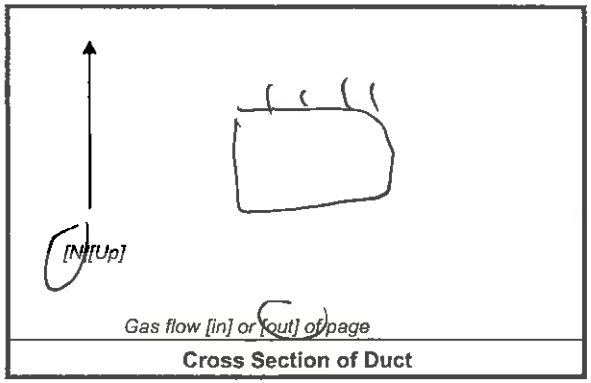
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. ~~0~~ 5

Page	2	of	2

Client	WHO
Plant	DB Wilson
Location	SCR ~~ESP~~ #1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.58
Static (inH_2O)	~17.8
Ambient Temp. (°F)	102
Start Time	13:37
Stop Time	14:07

Sample Train A

Trap ID	94460	Meter ID		Yd	1.0015
Pre Leak Check	.000	lpm @	16	(in. Hg)	
Post Leak Check	.000	lpm @	21	(in. Hg)	

Sample Train B Spiked

Trap ID	94364	Meter ID		Yd	.9998
Pre Leak Check	.000	lpm @	14	(in. Hg)	
Post Leak Check	.000	lpm @	8	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	31.86	323	120	9	
70	.5	34.18	323	121	9	
75	.5	36.49	323	123	9	
80	.5	39.02	323	124	9	
85	.5	40.16	323	125	19	
90	.5	41.80	323	125	18	
Total		41.80	~~1938~~	~~736~~		
Average			323	116.55		

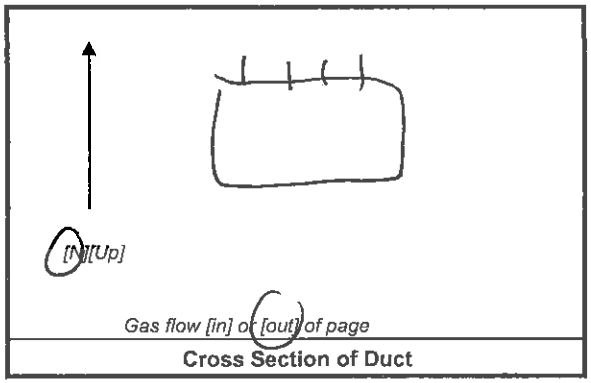
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	31.42	323	120	4	
70	.5	33.92	323	121	4	
75	.5	36.36	323	123	4	
80	.5	38.77	323	124	4	
85	.5	41.22	325	125	4	
90	.5	43.56	325	125	4	
Total			~~1936~~	~~736~~		
Average			323	116.55		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 36

Client	WKE
Plant	DB Wilson
Location	Esp #1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-17.2
Ambient Temp. (°F)	105
Start Time	14:48
Stop Time	1698

Rental

Sample Train A

Trap ID	94456	Meter ID		Yd	1.0012
Pre Leak Check	.000	lpm @	15		(in. Hg)
Post Leak Check	.000	lpm @	16		(in. Hg)

Sample Train B Spiked

Trap ID	94235	Meter ID		Yd	.9985
Pre Leak Check	.000	lpm @	16		(in. Hg)
Post Leak Check		lpm @	12		(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.36	333	110	10	
10	.5	4.72	333	111	10	
15	.5	7.09	333	113	10	
20	.5	9.39	333	112	10	
25	.5	11.76	333	112	10	
30	.5	14.89	333	113	10	
35	.5	16.16	333	114	10	
40	.5	18.46	333	114	10	
45	.5	21.02	333	116	10	
50	.5	23.42	333	116	10	
55	.5	25.84	333	117	10	
60	.5	27.05	333	117	10	
Total						
Average						

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.31	333	110	4	
10	.5	4.63	333	111	4	
15	.5	7.02	333	112	4	
20	.5	9.50	333	112	4	
25	.5	11.86	333	112	4	
30	.5	14.19	333	113	4	
35	.5	16.60	333	114	4	
40	.5	18.92	333	114	4	
45	.5	21.30	333	116	4	
50	.5	23.86	333	116	4	
55	.5	26.12	333	117	4	
60	.5	28.36	333	117	4	
Total						
Average						

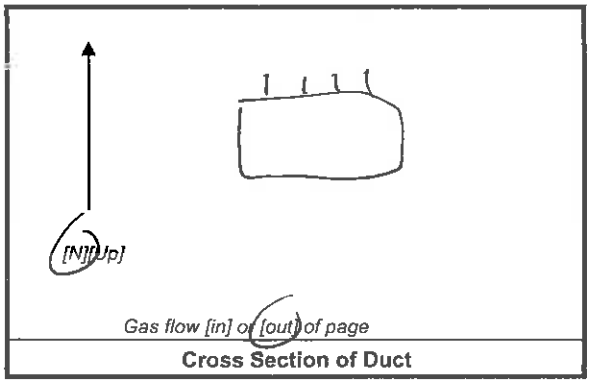
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 36

Page	2	of	2

Client	WHE
Plant	DB Wilson
Location	Esp #1
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.80
Static (inH_2O)	-17.2
Ambient Temp. (°F)	105
Start Time	14:48
Stop Time	16:18

Sample Train A

Trap ID	94456	Meter ID		Yd	1.0012
Pre Leak Check	1.000	lpm @	15	(in. Hg)	
Post Leak Check	1.000	lpm @	18	(in. Hg)	

Sample Train B Spiked Rerun

Trap ID	94235	Meter ID		Yd	1.998
Pre Leak Check	1.000	lpm @	16	(in. Hg)	
Post Leak Check	1.000	lpm @	17	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time 5		0.00				
65	.5	29.39	~~418~~	118	10	TS 334
70	.5	31.88	333	118	10	
75	.5	34.18	333	119	10	
80	.5	36.39	333	119	10	
85	.5	38.70	333	119	10	
90	.5	40.96	333	119	14	
Total						
Average						

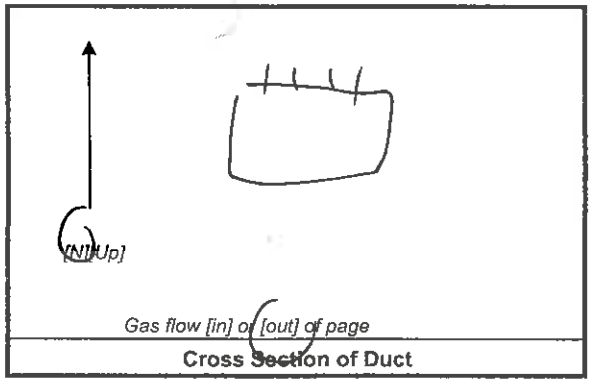
Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
Elapsed Time 5		0.00				
65	.5	30.70	339	118	~~10~~ 4	Vac 4
70	.5	33.16	338	118	~~10~~ 4	
75	.5	35.42	339	119	4	
80	.5	37.69	333	119	4	
85	.5	39.99	333	119	4	
90	.5	42.31	333	119	4	
Total						
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. X 4

Client	Wire
Plant	DB Wilson
Location	SCR ~~ESP~~ out 2
Date	7-20-11
Project No.	3648
Meter Reader	CS



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	92
Start Time	9:28
Stop Time	10:58

Sample Train A

Trap ID	94538	Meter ID	2SA	Yd	.9994
Pre Leak Check	100	lpm @	17	(in. Hg)	
Post Leak Check	100	lpm @	15	(in. Hg)	

Sample Train B Spiked

Trap ID	94302	Meter ID	2SB	Yd	1.0017
Pre Leak Check	100	lpm @	16	(in. Hg)	
Post Leak Check	100	lpm @	20	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.69	330	110	7	
10	.5	5.17	330	112	7	
15	.5	7.52	330	113	7	
20	.5	9.93	330	115	7	
25	.5	12.38	330	117	8	
30	.5	14.86	330	117	8	
35	.5	17.38	330	118	8	
40	.5	19.91	330	118	8	
45	.5	22.41	330	119	8	
50	.5	24.92	330	119	8	
55	.5	27.46	330	119	8	
60	.5	~~29.81~~	330	119	8	
Total		44.36	~~3960~~	~~1396~~		
Average			330.11	119		

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.40	330	110	3	
10	.5	4.82	330	112	3	
15	.5	7.42	330	113	3	
20	.5	9.86	330	115	3	
25	.5	12.46	330	117	3	
30	.5	14.92	330	117	3	
35	.5	17.42	330	118	4	
40	.5	19.93	330	118	4	
45	.5	22.43	330	119	4	
50	.5	24.91	330	119	4	
55	.5	27.41	330	119	4	
60	.5	~~29.76~~	330	119	4	
Total		44.71	~~3960~~	1396		
Average			330.11	119		

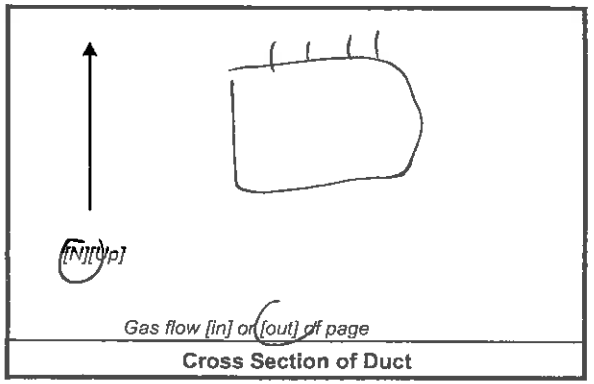
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. X4

Page	2	of	2

Client	WKE
Plant	DB Wilson
Location	SCR ~~ESP~~ out #2
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	92
Start Time	9:28
Stop Time	10:58

Sample Train A

Trap ID	943.38	Meter ID	25A	Yd	.9994
Pre Leak Check	.000	lpm @	17		(in. Hg)
Post Leak Check	.000	lpm @	15		(in. Hg)

Sample Train B Spiked

Trap ID	94322	Meter ID	25B	Yd	1.0017
Pre Leak Check	.000	lpm @			(in. Hg)
Post Leak Check	.000	lpm @			(in. Hg)

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	32.32	330	121	10	
70	.5	34.52	330	123	12	
75	.5	37.21	330	125	12	
80	.5	39.40	330	125	12	
85	.5	42.19	331	126	12	
90	.5	44.36	331	126	10	
Total		44.36	1298	714	746	
Average			330.11	119		

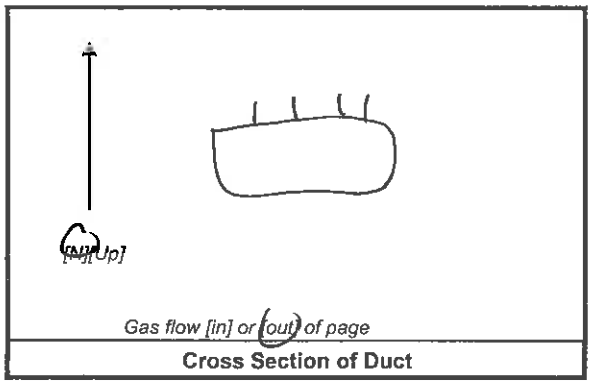
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	32.41	330	121	~~10~~ 4	
70	.5	34.86	330	123	~~12~~ 4	
75	.5	37.33	330	125	4	
80	.5	39.75	330	125	4	
85	.5	42.25	331	126	4	
90	.5	44.71	331	126	4	
Total		44.71	~~1298~~	~~746~~		
Average			330.11	119		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 25

Client	Wike
Plant	DB Wilson
Location	SCR ~~Exp~~ out #2
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	102
Start Time	12:37
Stop Time	14:07

Sample Train A

Trap ID	94324	Meter ID	25A	Yd	.9994
Pre Leak Check	.000	lpm @	19	(in. Hg)	
Post Leak Check	.000	lpm @	19	(in. Hg)	

Sample Train B Spiked

Trap ID	94409	Meter ID	25B	Yd	1.0017
Pre Leak Check	.000	lpm @	17	(in. Hg)	
Post Leak Check	.000	lpm @	17	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.31	330	110	9	
10	.5	4.76	330	110	9	
15	.5	7.35	330	111	9	
20	.5	9.80	330	110	9	
25	.5	12.36	330	114	9	
30	.5	14.80	330	115	9	
35	.5	16.67	330	116	9	
40	.5	19.12	330	117	9	
45	.5	21.48	330	118	9	
50	.5	23.92	330	119	9	
55	.5	25.40	330	119	9	
60	.5	~~27.75~~	330	119	9	
Total		43.62	~~3960~~	~~1272~~		
Average			330	111.33		

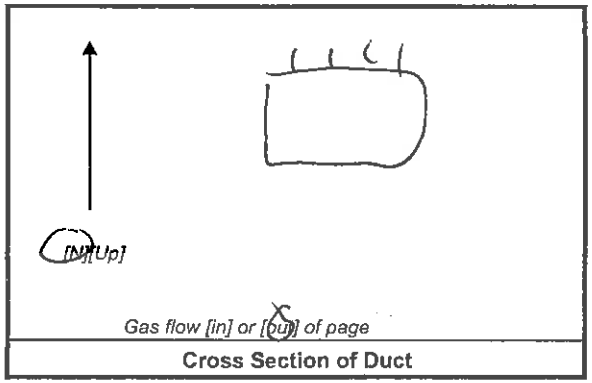
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.52	330	110	3	
10	.5	5.06	330	110	3	
15	.5	7.42	330	111	3	
20	.5	9.87	330	112	3	
25	.5	12.37	330	114	3	
30	.5	14.82	330	115	3	
35	.5	17.16	330	116	3	
40	.5	19.36	330	117	3	
45	.5	21.76	330	118	3	
50	.5	23.98	330	119	3	
55	.5	26.51	330	119	3	
60	.5	~~28.9~~	330	119	3	
Total		43.41	~~3960~~	~~1272~~		
Average			330	111.33		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 5

Client	WKE
Plant	DB Wilson
Location	SCR ~~257~~ out #2
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.80
Static (inH_2O)	-15.9
Ambient Temp. (^{0}F)	102
Start Time	12:37
Stop Time	14:07

Sample Train A

Trap ID	94324	Meter ID	25A	Yd	.9994
Pre Leak Check	.000	lpm @	19	(in. Hg)	
Post Leak Check	.060	lpm @	14	(in. Hg)	

Sample Train B Spiked

Trap ID	94104	Meter ID	25B	Yd	1.0017
Pre Leak Check	.000	lpm @	17	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
65	.5	30.17	330	121	10	
70	.5	32.55	330	121	10	
75	.5	36.01	330	122	10	
80	.5	38.39	330	122	10	
85	.5	40.89	330	123	10	
90	.5	43.62	330	123	10	
Total		43.62	~~1980~~	~~738~~		
Average			330	111.33		

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
65	.5	31.10	330	121	3	
70	.5	33.66	330	121	3	
75	.5	36.12	330	122	3	
80	.5	38.66	330	122	3	
85	.5	41.10	330	123	3	
90	.5	43.41	330	123	3	
Total		43.41	~~1980~~	1272		
Average			330	111.33		

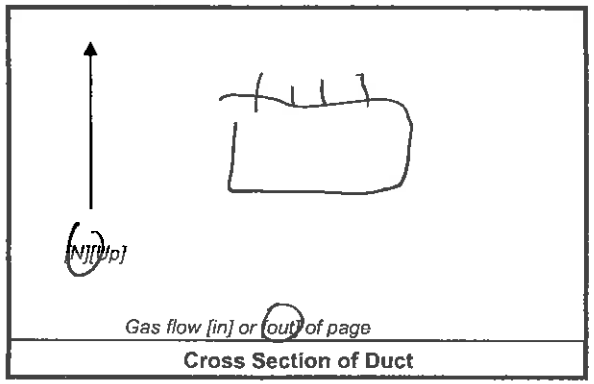
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 36

Page	1	of	2

Client	WKP
Plant	DB Wilson
Location	ESPout #2
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	105
Start Time	14:48
Stop Time	16:18

Sample Train A

Trap ID	94472	Meter ID	MJSA	Yd	.9994
Pre Leak Check	.000		lpm @	18	(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Sample Train B Spiked

Trap ID	94358	Meter ID	JSB	Yd	1.0017
Pre Leak Check	.000		lpm @	15	(in. Hg)
Post Leak Check			lpm @		(in. Hg)

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 1000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.46	110	110	9	TS 334
10	.5	4.75	334	111	9	
15	.5	7.44	334	111	9	
20	.5	9.72	334	112	9	
25	.5	12.40	334	114	9	
30	.5	14.70	334	114	9	
35	.5	17.19	334	114	9	
40	.5	19.42	334	114	9	
45	.5	21.90	334	116	9	
50	.5	24.12	334	117	9	
55	.5	26.39	334	117	9	
60	.5	28.65	334	118	9	
Total						
Average						

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.5	2.22	334	110	4	
10	.5	4.46	334	111	4	
15	.5	6.62	334	111	4	
20	.5	8.84	334	112	4	
25	.5	11.19	334	114	4	
30	.5	13.69	334	114	4	
35	.5	16.03	334	114	4	
40	.5	18.44	334	114	4	
45	.5	20.96	334	116	4	
50	.5	23.36	334	117	4	
55	.5	25.72	334	117	4	
60	.5	28.13	334	118	4	
Total						
Average						

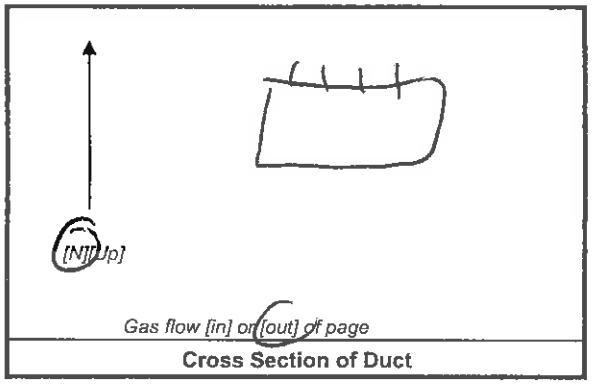
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3b6

Page	2	of	2

Client	WKe
Plant	DB Wilson
Location	ESP FD
Date	7-20-11
Project No.	3648
Meter Reader	C.S



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	105
Start Time	14:48
Stop Time	

Sample Train A

Trap ID	94470	Meter ID	05A	Yd	1.0174
Pre Leak Check	.000	lpm @	15	(in. Hg)	
Post Leak Check	.000	lpm @	20	(in. Hg)	

Sample Train B Spiked

Trap ID	94358	Meter ID	05B	Yd	1.0017
Pre Leak Check	.000	lpm @	15	(in. Hg)	
Post Leak Check	.000	lpm @	15	(in. Hg)	

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	30.96	334	119	9	
70	.5	33.42	334	119	9	
75	.5	35.92	334	120	9	
80	.5	38.12	334	120	10	Vac 10
85	.5	40.15	334	121	9	" 12
90	.5	42.11	334	121	10	" 16
Total						
Average						

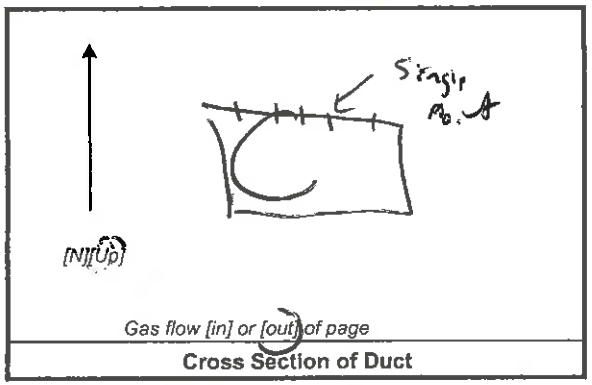
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.5	30.34	334	119	4	
70	.5	32.66	334	119	4	
75	.5	34.99	334	120	4	
80	.5	37.40	334	120	4	
85	.5	39.70	334	121	4	
90	.5	42.51	334	121	4	
Total						
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. X 4

Client	Big Rivers
Plant	CCRD. B. Wilson
Location	Inlet #3
Date	7/20/11
Project No.	3648
Meter Reader	RL



Barometric (in. Hg)	29.50
Static (inH_2O)	-1.5.4
Ambient Temp. (°F)	90
Start Time	9:28
Stop Time	10:58

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9958
Pre Leak Check	.001	lpm @	26	(in. Hg)	
Post Leak Check	.000	lpm @	18	(in. Hg)	

Trap ID 94386

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 000.00	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.754pm	2.467	351	95	7	
10		4.721	354	100	7	
15		6.830	353	100	7	RL
20		9.485	356	100	8	9.485
25		11.987	356	103	8	
30		14.586	355	103	8	
35		17.413	355	105	8	
40		20.193	371	106	9	
45		22.883	309	107	9	RL
50		25.487	358	111	10	23.467 RL
55		30.386	355	111	10	25.487
60		30.386	357	111	10	
Total			4130	1252		
Average		43.052	348.1	107.2		

Sample Train B Spiked M-26 RL

Trap ID	—	Meter ID	~~R-17075~~	Yd	.9902
Pre Leak Check	.001	lpm @	23	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Trap ID 98387

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 000.00	Stack Temp (°F) 352	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.754pm	2.687	~~100~~	100	3	351
10		4.937	354	100	3	354 RL
15		7.647	353	100	3	353 RL
20		10.112	356	102	3	356
25		12.463	356	103	4	356
30		14.793	356	104	4	355
35		17.507	355	106	4	
40		20.374	348	108	4	
45		21.12	355	109	4	RL
50		~~25.652~~	358	110	4	23.742 RL
55		~~30.327~~	355	112	4	25.632 RL
60		30.327	357	112	4	~~30.327~~
Total			~~4264~~	1266		
Average		43.253	~~358.~~	108		

4130

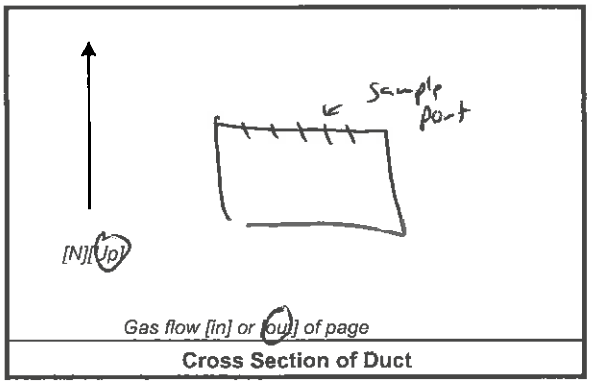
348.1

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Client	Big Rivers
Plant	D.B. Wilson
Location	Inlet #3
Date	7/20/11
Project No.	3648
Meter Reader	RG



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	
Ambient Temp. (°F)	
Start Time	9:28
Stop Time	10:58

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9958
Pre Leak Check	.001		lpm @	26	(in. Hg)
Post Leak Check	.000		lpm @	18	(in. Hg)

Trap ID 94386

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	32.751	356	113	11	
70	↓	35.147	356	113	11	
75		36.954	356	113	11	
80		39.132	355	113	11	
85		40.273	356	113	11	
90	↓	43.052	356	113	11	
Total			2135	678		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	M-26	Yd	.9902
Pre Leak Check	.001		lpm @	23	(in. Hg)
Post Leak Check	.000		lpm @	10	(in. Hg)

Trap ID 94847

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	32.698	356	112	4	
70	↓	35.095	~~365~~356	113	4	
75		37.052	356	113	4	
80		39.047	355	113	4	
85		41.273	356	113	4	
90	↓	43.253	356	113	4	
Total			2135	678		
Average						

4

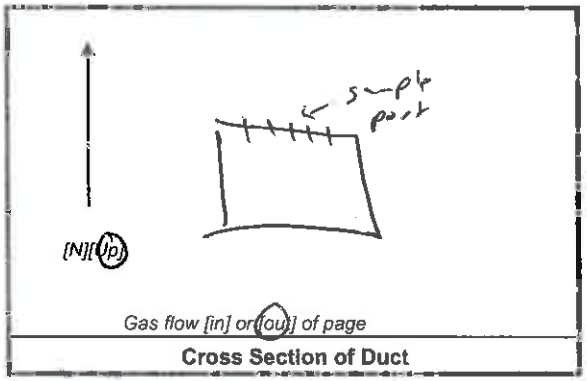
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2 5

Page	1	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	CFB Unit #3 Inlet
Date	7/20/11
Project No.	3648
Meter Reader	RG



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-1.5
Ambient Temp. (^0F)	95
Start Time	12:37
Stop Time	14:02

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9958
Pre Leak Check	.001	lpm @	25	(in. Hg)	
Post Leak Check	.000	lpm @	18	(in. Hg)	

Trap ID 94443

Min/Point 5	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
Elapsed Time		0				
5	.75LPM	3.58	354	105	7	
10		6.047	356	106	7	
15		7.728	359	107	7	
20		9.503	358	189	7	
25		10.923	355	109	7	
30		12.281	357	112	7	
35		13.604	356	112	7	
40		15.183	357	113	8	
45		16.889	357	113	8	
50		19.873	355	114	8	
55		22.921	356	114	9	
60		24.899	357	115	10	
Total			4277	1329		
Average			355.9	112.2		

Sample Train B SPiked

Trap ID	—	Meter ID	M-26	Yd	.9902
Pre Leak Check	.001	lpm @	23	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Trap ID 94305

Min/Point 5	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (^0F)	DGM Temp (^0F)	Pump Vaccum (in Hg)	Notes
Elapsed Time		0				
5	.75LPM	3.707	354	105	3	
10		5.956	356	106	3	
15		8.147	359	109	3	
20		9.737	358	110	3	
25		10.481	355	110	3	
30		11.489	357	112	3	
35		13.967	356	113	3	
40		15.634	357	114	3	
45		17.295	357	114	3	
50		20.331	355	115	3	
55		23.156	356	115	3	
60		26.235	357	116	3	
Total			4277	1339		
Average			355.9	113.1		

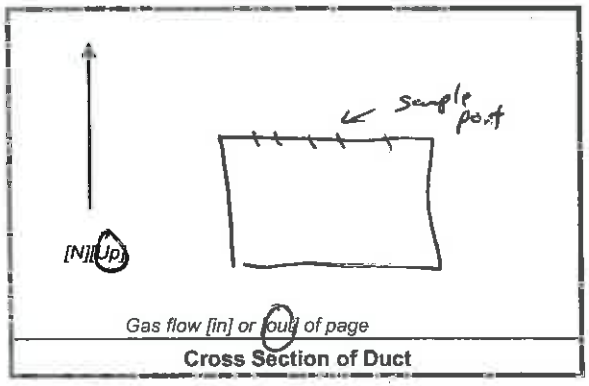
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 25

Page	2	of	2

Client	Big Rivers
Plant	D.B Wilson
Location	CFB Unit #3 Inlet
Date	7/20/11
Project No.	3648
Meter Reader	RC



Barometric (in. Hg)	29.50
Static (inH_2O)	
Ambient Temp. (°F)	
Start Time	12:37
Stop Time	14:02

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9958
Pre Leak Check	.001		lpm @	25	(in. Hg)
Post Leak Check	.000		lpm @	18	(in. Hg)

Trap ID 94443

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	27.063	355	115	8	RC
70	↓	~~25.774~~ RC	356	115	9	29.085
75	↓	31.028	354	115	10	
80	↓	32.756	356	118	11	
85	↓	34.333	353	115	11	
90	↓	35.852	355	115	11	
Total			2129	690		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	M-26	Yd	.9902
Pre Leak Check	.001		lpm @	23	(in. Hg)
Post Leak Check	.000		lpm @	10	(in. Hg)

Trap ID 94335

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	28.591	355	116	3	RC
70	↓	~~31.642~~ RC	356	116	3	31.724
75	↓	34.420	354	116	3	
80	↓	37.004	356	117	3	
85	↓	39.665	353	116	3	
90	↓	42.118	355	116	3	
Total			2129	697		
Average						

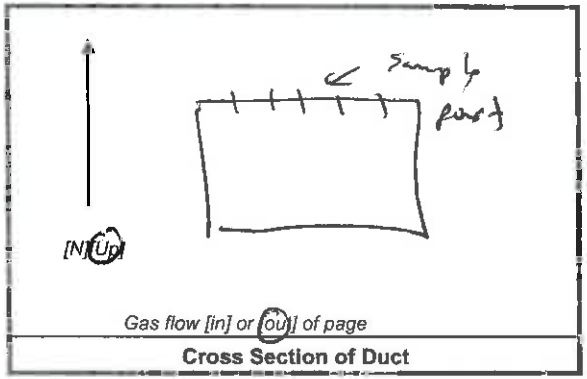
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3 6

Page	1	of	2

Client	Big Rivers
Plant	RD B Wilson
Location	SCR Inlet # 3
Date	7/20/11
Project No.	3648
Meter Reader	RL



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	95
Start Time	14:48
Stop Time	16:18

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9958
Pre Leak Check	.002	lpm @	24	(in. Hg)	
Post Leak Check	.000	ipm @	13	(in. Hg)	

Trap ID 94461

Min/Point / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.75LPM	2.853	360	105	7	
10		5.216	361	104	7	
15		6.073	359	104	7	
20		8.565	360	105	7	
25		10.867	361	107	8	
30		13.147	359	108	9	13.147
35		15.319	360	110	9	
40		17.481	359	111	9	
45		19.667	359	112	9	
50		21.753	359	113	10	
55		23.762	359	114	10	
60	↓	29.963	357	114	10	
Total			4313	1307		
Average		38.328	359	111.2		

Sample Train B Spiked

Trap ID	—	Meter ID	M-26	Yd	.9902
Pre Leak Check	.001	lpm @	18	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Trap ID 94332

Min/Point / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.75LPM	2.756	360	104	2	
10		4.632	361	104	2	
15		6.512	359	105	2	
20		8.236	360	106	2	
25		9.998	361	106	2	
30		12.614	359	110	82	
35		16.092	360	111	6	
40		18.816	359	112	5	
45		20.223	359	113	6	
50		21.775	359	114	7	
55		23.994	359	115	9	
60	↓	26.227	357	115	8	
Total			4313	1315		
Average		39.519	359	111.7		

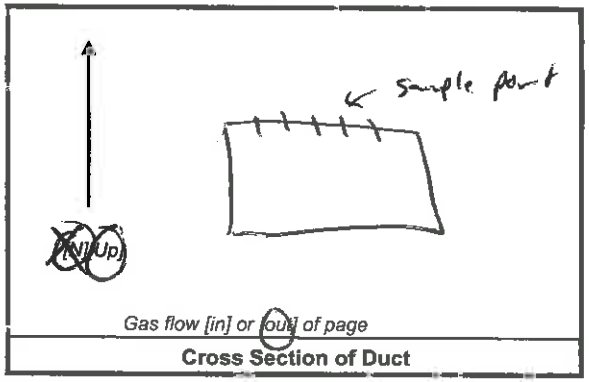
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3 6

Page	2	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	Unit #3 Inlet
Date	9/20/11
Project No.	3648
Meter Reader	RG



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.4
Ambient Temp. (°F)	95
Start Time	14:48
Stop Time	16:18

Sample Train A

Trap ID	—	Meter ID	M-26	Yd	.9955
Pre Leak Check	.002	lpm @	24	(in. Hg)	
Post Leak Check	.000	lpm @	13	(in. Hg)	

Train ID 94461

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	28.266	358	116	9	
70	↓	30.269	360	115	10	
75		32.274	358	116	10	
80		34.248	357	116	10	
85		36.355	359	116	10	
90	↓	38.328	357	116	10	
Total			2149	695		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	M-26	Yd	.9902
Pre Leak Check	.001	lpm @	18	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Train ID 94332

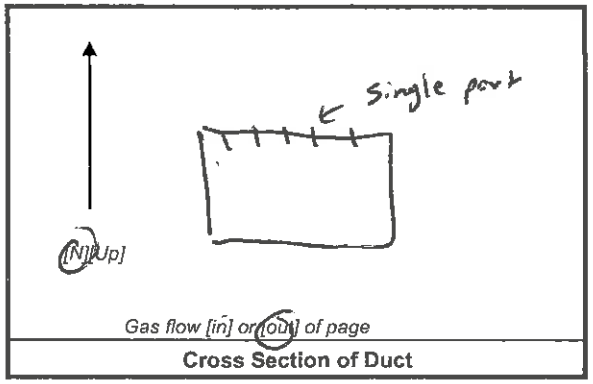
Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	28.351	358	114	3	
70	↓	30.343	360	116	3	
75		32.349	358	116	3	
80		34.409	357	116	3	
85		37.158	359	117	3	
90	↓	39.519	357	118	3	
Total			2149	696		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Client	Big Rivers
Plant	D.B. Wilson
Location	Unit 1 Inlet
Date	7/20/14
Project No.	3648
Meter Reader	RC



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.9
Ambient Temp. (°F)	95
Start Time	9:28
Stop Time	10:58

Sample Train A R19075 1.0000

Trap ID	—	Meter ID	~~M-26~~	Yd	~~.9558~~ RC
Pre Leak Check	.001	lpm @	26	(in. Hg)	
Post Leak Check	.000	lpm @	15	(in. Hg)	

Train ID 94343

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 00.000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.75LPM	2.778	322	87	4	
10		4.987	322	87	4	
15		7.121	323	88	4	
20		9.083	322	89	5	
25		11.073	322	90	5	
30		13.000	322	91	6	
35		14.986	323	89	6	
40		17.194	323	89	7	
45		19.789	311	91	8	
50		22.309	312	91	9	
55		27.508	314	91	10	
60		28.647	325	91	10	
Total			3841	1074		
Average		42.783	321.1	90		

Sample Train B Spiked R19075

Trap ID	—	Meter ID		Yd	1.0000
Pre Leak Check	.002	lpm @	22	(in. Hg)	
Post Leak Check	.000	lpm @	9	(in. Hg)	

Train ID 94369

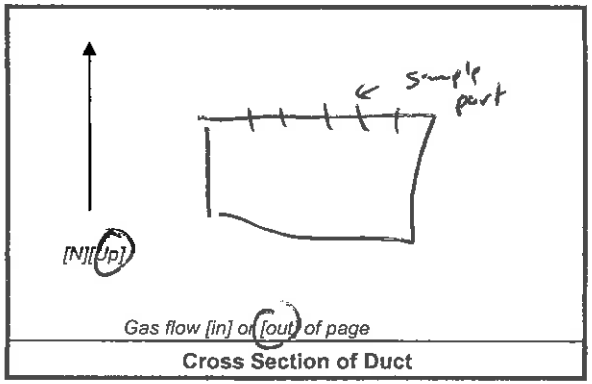
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I] 00000	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.75LPM	2.429	322	88	3	
10		~~7.096~~	322	88	3	
15		9.7096	323	88	3	
20		9.387	~~322~~	~~89~~	3	
25		11.574	322	~~89~~	3	
30		~~13~~.862	~~32~~2	~~89~~	3	13.862
35		15.905	323	90	3	
40		18.427	321	90	3	
45		21.247	312	90	3	
50		23.721	312	90	3	
55		29.632	~~314~~	91	3	
60		30.148	325	91	3	
Total			3841	1073		
Average		43.605	321.1	90.2		

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 4

Client	Big Rivers
Plant	D.B. Wilson
Location	SCR Unit #4 Inlet
Date	7/20/11
Project No.	3648
Meter Reader	RL



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	
Ambient Temp. (°F)	
Start Time	9:28
Stop Time	10.58

Sample Train A

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001	lpm @	26	(in. Hg)	
Post Leak Check	.000	lpm @	15	(in. Hg)	

Probe I.D 94343

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	30.198	323	91	12	
70	↓	34.327	323	91	12	
75		36.598	323	91	12	
80		39.887	323	91	12	
85		40.924	323	91	12	
90	↓	42.783	323	91	12	
Total			1938	546		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.002	lpm @	22	(in. Hg)	
Post Leak Check	.000	lpm @	↑	(in. Hg)	

Probe I.D 94369

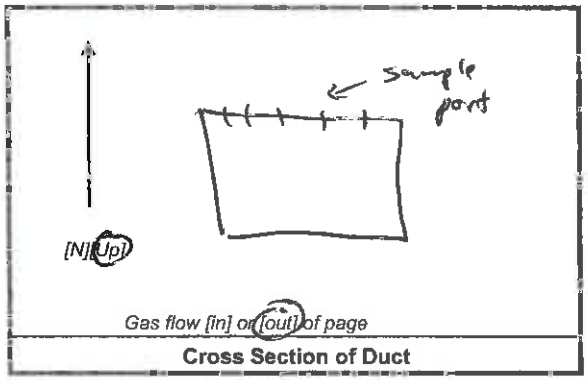
Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	32.312	323	91	3	
70	↓	34.172	323	91	3	
75		37.060	323	92	3	
80		39.258	323	92	3	
85		40.563	323	92	3	
90	↓	43.605	323	92	3	
Total			1938	550		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 25

Client	B.S Rivers
Plant	R.D. Wilson
Location	Unit #4
Date	7/20/11
Project No.	3648
Meter Reader	RG



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-5.9
Ambient Temp. (°F)	95
Start Time	12:37
Stop Time	14:02

Sample Train A

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001		lpm @	25	(in. Hg)
Post Leak Check	.000		lpm @	19	(in. Hg)

Train ID 94500

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.752 LPM	2.263	323	91	6	
10		5.641	326	92	7	
15		8.111	327	92	7	
20		10.208	326	92	7	
25		11.651	326	92	7	
30		12.616	327	92	8	
35		13.896	327	92	5	
40		15.547	327	92	5	
45		17.798	328	93	8	
50		20.113	326	93	9	
55		22.778	328	93	9	
60		26.263	327	93	9	
Total			3918	1107		
Average		43.155	326.7	92.5		

Sample Train B Spiked

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001		lpm @	23	(in. Hg)
Post Leak Check	.000		lpm @	12	(in. Hg)

Train ID 94375

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
5	.752 LPM	3.898	323	92	2	
10		5.978	326	92	2	
15		8.391	327	93	2	
20		10.404	326	93	2	
25		11.601	326	93	2	
30		12.743	327	93	2	
35		13.824	327	93	2	
40		15.288	327	93	2	
45		17.492	328	94	2	
50		20.271	326	94	2	
55		23.091	328	94	2	
60		27.891	327	94	2	
Total			3918	1118		
Average		41.997	326.7	93.4		

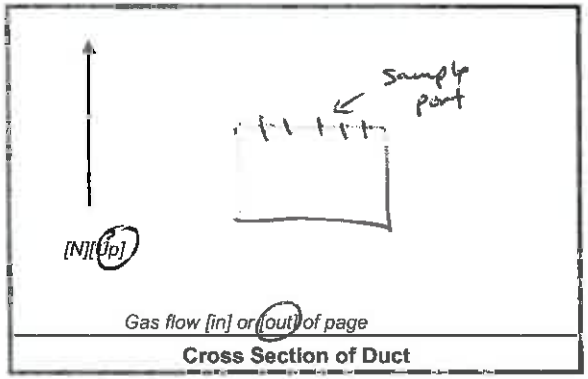
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. X5

Page 2 of 2

Client	Big Rivers
Plant	R.D. Wilson
Location	Inlet #4
Date	7/20/11
Project No.	3648
Meter Reader	RG



Barometric (in. Hg)	29.50
Static (inH_2O)	
Ambient Temp. (°F)	
Start Time	12:37
Stop Time	14:52

Sample Train A

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001		ipm @	25	(in. Hg)
Post Leak Check	.000		ipm @	19	(in. Hg)

Train ID 94500

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65	.754pm	29.374	327	93	10	
70	↓	32.297	327	93	10	
75		35.178	327	93	10	
80		38.143	326	93	11	
85		40.679	326	93	11	
90	↓	43.155	329	93	11	
Total			1962	558		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001		lpm @	23	(in. Hg)
Post Leak Check	.000		lpm @	12	(in. Hg)

Train ID 94375

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] 0	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
65		31.642	327	94	2	
70		34.872	327	94	2	
75		36.556	326	94	2	
80		38.150	326	94	2	
85		40.025	326	94	2	
90		41.997	327	94	2	
Total			1962	564		
Average						

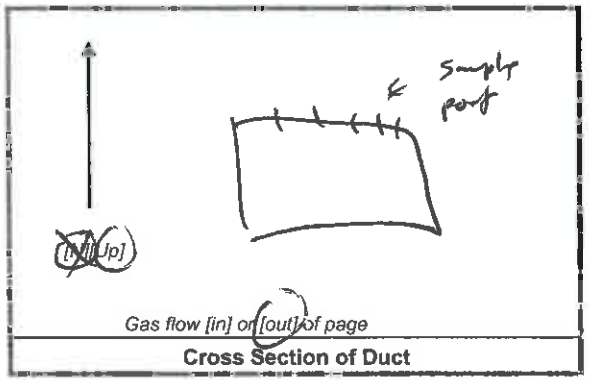
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 36

Page	1	of	2

Client	Big Rivers
Plant	D.B. Wilson
Location	SCR Inlet #4
Date	7/11
Project No.	3648
Meter Reader	RC



Cross Section of Duct

Barometric (in. Hg)	29.50
Static (inH_2O)	-15.4
Ambient Temp. (°F)	95
Start Time	14:48
Stop Time	16:18

Q

Sample Train A

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001	lpm @	22	(in. Hg)	
Post Leak Check	.000	lpm @	15	(in. Hg)	

Train ID 94462

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
		Θ				
5	.75LPM	1.942	333	93	7	
10		4.681	330	93	8	
15		7.326	332	93	9	
20		9.828	331	93	9	
25		12.171	331	93	5	
30		13.736	331	93	9	
35		15.289	330	94	9	
40		17.049	329	94	10	
45		18.547	330	94	10	
50		20.634	331	94	8	
55		22.620	327	94	8	
60		24.516	329	94	8	
Total			3966	1122		
Average		39.755	330.2	94		

Sample Train B spiked

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001	lpm @	15	(in. Hg)	
Post Leak Check	.000	lpm @	10	(in. Hg)	

Train ID 94276

Min/Point 5 / Elapsed Time	Flow Meter Setting	Gas Sample Initial [I]	Stack Temp (°F)	DGM Temp (°F)	Pump Vaccum (in Hg)	Notes
		Θ				
5	.75LPM	2.476	333	94	2	
10		4.865	330	94	2	
15		7.085	332	94	2	
20		9.234	331	94	2	
25		11.314	331	94	2	
30		13334	331	94	2	
35		15.993	330	95 95	3	
40		18.356	329	95	3	
45		19.702	330	95	3	
50		20.781	331	95	3	
55		22.415	329	95	3	
60		24.407	329	95	3	
Total			3966	1134		
Average		39.721	330.2	94.9		

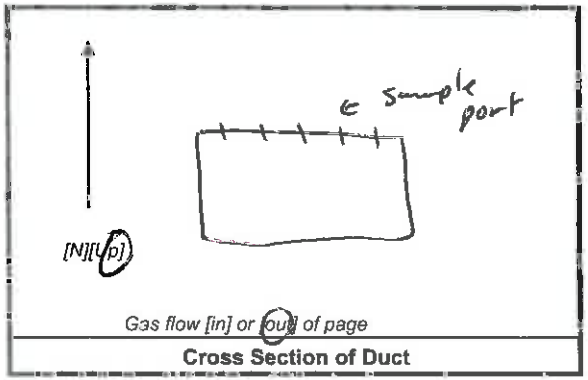
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3 6

Page	2	of	2

Client	Big Rivers
Plant	RDB, Wilson
Location	Unit #4 inlet
Date	4/20/11
Project No.	3648
Meter Reader	RG



Cross Section of Duct

Barometric (in. Hg)	29.5
Static (inH_2O)	
Ambient Temp. (^{0}F)	
Start Time	14:48
Stop Time	16:18

Sample Train A

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.002		lpm @	27	(in. Hg)
Post Leak Check	.000		lpm @	15	(in. Hg)

Train ID 94462

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] Ø	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	26.398	329	95	8	
70	↓	28.329	330	95	8	
75		30.995	330	95	9	
80		33.909	330	95	9	
85		36.885	329	95	9	
90	↓	39.755	329	95	9	
Total			1977	570		
Average						

Sample Train B Spiked

Trap ID	—	Meter ID	R19075	Yd	1.0000
Pre Leak Check	.001		lpm @	15	(in. Hg)
Post Leak Check	.000		lpm @	15	(in. Hg)

Train ID 94276

Min/Point 5 Elapsed Time	Flow Meter Setting	Gas Sample Initial [l] Ø	Stack Temp (^{0}F)	DGM Temp (^{0}F)	Pump Vaccum (in Hg)	Notes
65	.75LPM	26.591	329	95	2	
70	↓	28.808	330	95	2	
75		31.419	330	96	2	
80		34.227	330	96	2	
85		37.006	330	96	2	
90	↓	39.721	329	96	2	
Total			1977	574		
Average						

AIRTECH ENVIRONMENTAL SERVICES INC.

Oxygen and Carbon Dioxide Data Sheet

PROJECT NO. 3648

Page	1	**of**	1

Client	Big Rivers		
Plant	Wilson		
Location	ESP Outlets	**Train**	5B/202
Analyzer Type	Plant CEMS Data	**Leak Check**	

Run No.	Trial No.	%CO_{2w}	%CO_{2d}	%O_2	F_O	Date	Start Time	Stop Time
4	1				1.13	7/19/2011	7:03	8:39
	2							
	3							
	Average	10.8	11.8	7.47				
5	1				1.14	7/19/2011	10:03	11:57
	2							
	3							
	Average	11.1	12.2	6.93				
6	1				1.13	7/19/2011	13:01	14:54
	2							
	3							
	Average	11.1	11.9	7.39				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							

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Client	Big Rivers		
Plant	Wilson		
Location	Stack	**Train**	5B/202
Analyzer Type	Plant CEMS Data	**Leak Check**	

Run No.	Trial No.	$\%CO_{2w}$	$\%CO_{2d}$	$\%O_2$	F_o	Date	Start Time	Stop Time
4	1				1.13	7/19/2011	7:03	8:43
	2							
	3							
	Average	10.1	11.9	7.45				
5	1				1.14	7/19/2011	10:03	11:48
	2							
	3							
	Average	10.3	12.0	7.17				
6	1				1.13	7/19/2011	13:07	14:48
	2							
	3							
	Average	11.1	13.1	6.11				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							

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Client	Big Rivers		
Plant	Wilson		
Location	ESP Outlets	**Train**	26A
Analyzer Type	Plant CEMS Data	**Leak Check**	

Run No.	Trial No.	$\%CO_{2w}$	$\%CO_{2d}$	$\%O_2$	F_o	Date	Start Time	Stop Time
4	1				1.15	7/20/2011	8:38	10:40
	2							
	3							
	Average	11.0	12.1	7.03				
5	1				1.15	7/20/2011	12:05	14:05
	2							
	3							
	Average	10.8	11.8	7.33				
6	1				1.15	7/20/2011	15:20	17:20
	2							
	3							
	Average	11.0	12.0	7.09				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							

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Client	Big Rivers		
Plant	Wilson		
Location	Stack	Train	26A
Analyzer Type	Plant CEMS Data	Leak Check	

Run No.	Trial No.	%CO_{2w}	%CO_{2d}	%O_2	F_O	Date	Start Time	Stop Time
4	1				1.15	7/20/2011	8:40	10:55
	2							
	3							
	Average	10.3	11.2	8.03				
5	1				1.15	7/20/2011	12:04	14:14
	2							
	3							
	Average	10.3	12.1	6.95				
6	1				1.15	7/20/2011	15:20	17:36
	2							
	3							
	Average	10.3	11.4	7.74				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							