

Field Data

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

METHOD NO. Z6A

Page 1 of 3

RUN NO. 1

Client	BIG RIVERS		Water (ml) (g)	29.45		
Plant	ROBARDS KY		Silica gel (g)	90°F		
Location	GREEN UN. #1 INLET A		Total Vic	-16.0		
Date	07/27/11		Project No.	3648		
Meter Operator	JD		Probe ID	AE5-12-3		
Probe Operator	PC		Nozzle ID	.275		
Meter ID	M-16	Yd	9907	Filter Type	IMP	
ΔH@	1.845	Kf	4.10	Nozzle Dia (in)	.275	
Pre Leak Check	0.000	(inHg) [ppm] @	20	Train ID	FB-	
Post Leak Check	0.000	(inHg) [ppm] @	15	Duct Dim. (in)	162.0"	
Pitot Cp <u>.84</u> Leak check <u>V</u>			Start Time	0753	Stop Time	1015
First point all the way <u>in</u> [out] Gas flow [in] [out] of page Cross Section of Duct						

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ml)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
5	.44	1.8	724.62	311	250	250	46	101	94	10	N/A	
1-1	.44	1.8	728.88	311	253	254	46	101	94	10	N/A	
2	.40	1.6	732.37	316	255	253	47	104	94	10		
3	.30	1.2	735.38	307	254	252	48	106	95	9		
4	.29	1.2	738.32	308	253	250	49	106	95	9		
5	.25	1.0	741.12	309	251	249	50	107	96	9		
6	.27	1.1	744.08	308	250	250	50	107	96	9		
7	.24	.98	746.83	305	250	251	51	108	96	8		
8	.18	.74	749.16	306	249	250	52	108	97	7		
9	.16	.66	751.41	303	250	251	53	108	98	7		
10	.21	.86	753.96	302	249	250	54	110	99	8		
11	.26	1.1	756.81	300	248	250	55	111	100	16		
12	.17	.90	759.53	301	250	249	56	112	101	9		
Total	130	13.206	78.82	7823.00								
Average	5	.5079	1.11	300.284								
				2835.00	2594.00	104.904	1161					

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

METHOD NO. 26A

Page 2 of

RUN NO. 1

Client	BIG RIVERS		
Plant	ROBARDS, KY		
Location	GREEN UNIT #1 INLET A		
Date	07/27/11	Project No.	364E
Meter Operator	JD		
Probe Operator	PC		
Meter ID	M-16	Yd	9A07
ΔH@	1.845	Kf	4.10
Pre Leak Check	0.000	ΔH [ppm] @	10 (inHg)
Post Leak Check	0.000	ΔH [ppm] @	15 (inHg)
Pitot Cp	.84		
Leak check			

Barometric (inHg)	29.45	Water (ml) [g]	
Ambient Temp (°F)	90°F	Silica gel (g)	
Static (inH ₂ O)	-16.0	Total Vic	
Probe ID	AE 5-12-3	Liner Type	TFE
Nozzle ID	.275	Nozzle Dia (in)	.275
Filter ID	NA	Train Type	FMP
Train ID	FB-	Port Length (in)	
Duct Dim. (in)	162.0"		
Start Time	07:53	Stop Time	



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

Traverse Point	Min/Point Elapsed Time	Velocity ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes	
														Temp (°F)
13	65	.15	.62	773.62	296	250	250	56	107	102	7	N/A		
2-1	70	.49	2.0	764.40	295	253	251	53	113	102	11			
2	75	.42	1.7	767.86	299	252	250	51	113	102	10			
3	80	.39	1.6	771.36	301	251	251	48	113	103	10			
4	85	.42	1.7	774.92	299	250	250	46	112	102	10			
5	90	.43	1.8	778.68	299	252	251	47	112	103	10			
6	95	.38	1.6	782.11	300	253	250	48	111	103	10			
7	100	.31	1.3	785.33	297	250	250	49	109	102	10			
8	105	.12	.49	788.01	296	254	251	50	108	102	8			
9	110	.13	.53	789.30	296	252	250	51	108	102	8			
10	115	.15	.62	791.58	299	251	249	52	109	102	8			
11	120	.14	.57	793.70	295	250	250	53	110	102	8			
Total														
Average														

14.53

3562

1305

1227

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 7

METHOD NO. 26A

Page 1 of 3

Client	BIG RIVERS	
Plant	ROBARDS, KY	
Location	GREEN WPT INLET A	
Date	07/27/11	Project No. 364B
Meter Operator	JD PC	
Probe Operator	PC	
Meter ID	M-16	Yd .9907
AH@	1.845	WF 4.10
Pre Leak Check	0.020 [ppm]	[ppm] @ 19 (inHg)
Post Leak Check	0.020 [ppm]	[ppm] @ 14 (inHg)

Barometric (inHg)	29.45	Water [in]	[]
Ambient Temp (°F)	98.4	Silica gel (g)	
Static (inH ₂ O)	-16.0	Total Vic	
Probe ID	AES-12-3	Liner Type	TFE
Nozzle ID	.275	Nozzle Dia (in)	.275
Filter ID	NA		
Train ID	FB-	Train Type	IMP
Duct Dim. (in)	162.0"	Port Length (in)	



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

Start Time	11:16	Stop Time	13:35
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Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] []	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-1	5	0.32	1.3	865.09	313	249	250	48	107	103	8	N/A	
2	10	0.28	1.1	808.10	317	250	250	48	110	103	7		
3	15	0.26	1.1	811.14	311	250	250	49	112	104	7		
4	20	0.24	1.0	814.17	311	250	250	50	115	104	11		
5	25	0.23	0.9	817.21	310	249	250	51	113	104	8		
6	30	0.24	0.8	819.98	312	250	250	51	113	104	9		
7	35	0.25	1.0	822.80	312	251	252	52	111	103	9		
8	40	0.24	0.8	825.58	312	250	251	53	112	103	9		
9	45	0.22	0.8	828.70	310	250	250	53	111	103	8		
10	50	0.23	0.9	830.91	310	249	249	54	111	103	9		
11	55	0.26	1.1	833.80	308	250	249	55	111	103	10		
12	60	0.19	0.8	836.26	309	250	250	56	112	103	8		
Total	135			870.24	315.00								
Average	5.6			72.56	305.769				27.44	103.2324			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

RUN NO. 2

METHOD NO. 26A

Page 2 of 3

Client	BIG RIVERS		Barometric (inHg)	29.45	Water (ml) [g]	
Plant	ROBARDS KY		Ambient Temp (°F)	88°F	Silica gel (g)	
Location	07/27/11 GREEN UNIT 1 INLET A		Static (inH ₂ O)	-16.0	Total Vlc	
Date	07/27/11		Probe ID	AES-12-J	Liner Type	TFC
Meter Operator	JD		Nozzle ID	N/A	Nozzle Dia (in)	.275
Probe Operator	PC		Train ID	IB-	Train Type	TMP
Meter ID	M-16	yd	Duct Dim. (in)	162.0"	Port Length (in)	
ΔH@	1.845	in	Start Time	11.16	Stop Time	
Pre Leak Check	0.000	(in) [ppm] @				
Post Leak Check		(in) [ppm] @				



Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial [l] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
5						250	250						
13	65	.21	.80	80.96	310	249	251	57	112	103	8	N/A	
1-1	70	.38	1.6	839.20	301	250	250	58	114	104	11		
2	75	.39	1.6	845.24	302	251	250	59	115	105	21		
3	80	.30	1.2	848.32	302	250	251	60	115	105	9		
4	85	.26	1.1	851.16	300	249	250	60	115	106	9		
5	90	.22	1.0	854.00	298	250	249	58	114	106	9		
6	95	.22	.90	856.65	299	249	250	56	115	106	28		
7	100	.24	.98	859.40	301	250	250	53	115	106	9		
8	105	.22	.87	861.97	299	252	249	53	115	107	9		
9	110	.18	.74	864.37	301	251	250	54	115	107	8		
10	115	.22	.86	866.96	300	252	250	55	115	107	9		
11	120	.25	1.0	869.75	299	250	249	56	115	107	10		
Total	130												
Average	5												

1375 1721
1375 1721
862
99.21

the correct bracketed [] units
- denotes Impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
General Testing Data Sheet


RUN NO. 2

TESTING TYPE: HCL

METHOD NO. 26A

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Client	<u>BIG RIVERS</u>		
Plant	<u>ROBARDS, KY</u>		
Location	<u>GREEN UNIT 1 JACKET A</u>		
Date	<u>07/27/11</u>	Project No.	<u>3648</u>
Meter Operator	<u>JD</u>		
Probe Operator	<u>PC</u>		
Meter ID	<u>M-16</u>	YS	<u>9907</u>
$\Delta H @$	<u>1.845</u>	NF	<u>4.10</u>
Pre Leak Check	<u>0.000</u>	(cfm) (ppm) @	<u>19</u> (inHg)
Post Leak Check		(cfm) (ppm) @	



Flow direction: up (Upr) left (Out)

Gas flow: (in) (out) of page

Cross Section of Duct

Barometric (inHg)	<u>29.45</u>	Water (ml)	[]
Ambient Temp (°F)	<u>98°F</u>	Silica gel (g)	[]
Static (inH ₂ O)	<u>-16.0</u>	Total Vlc	[]
Probe ID	<u>AES-123</u>	Liner Type	<u>TPE</u>
Nozzle ID	<u>275</u>	Nozzle Dia (in)	<u>.270</u>
Filter ID	<u>N/A</u>		
Train ID	<u>IB-</u>	Train Type	<u>IMP</u>
Duct Dim. (in)	<u>162.0"</u>	Port Length (in)	[]

Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
12	125	.20	.62	872.31	302	250	250	57	116	108	8	N/A	
13	130	.15	.62	874.54	301	250	250	58	115	107	8		
Total													
Average													

Circle correct bracketed [] units
Train Type denotes Impingers, Knoc-kouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

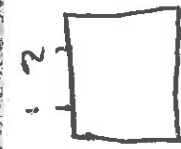
TESTING TYPE: HCL

RUN NO. 3

METHOD NO. 26A

Page 1 of 3

Client	BIG RIVERS		
Plant	ROBERTS, KM		
Location	GREEN UNIT #1 INLET A		
Date	07/27/11	Project No.	3648
Meter Operator	JD		
Probe Operator	PC		
Meter ID	M-16	%d	.9907
ΔH@	1.845	kt	4.10
Pre Leak Check	0.500	(cfm) [ppm] @	27 (inHg)
Post Leak Check	6.000	(cfm) [ppm] @	14 (inHg)



Barometric (inHg)	29.45	Water (ml) [g]	
Ambient Temp (°F)	98.0F	Silica gel (g)	
Static (inHg)	-16.0	Total Vic	
Probe ID	AE5-12-3	Liner Type	TFC
Nozzle ID	.275	Nozzle Dia (in)	.275
Filter ID			
Train ID	FR-	Train Type	FMP
Duct Dim. (in)	162.0"	Port Length (in)	

Start Time	14:08	Stop Time	16:16
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure (inH ₂ O)		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
		ΔP	Pressure											
072-1	5	.31		1.3	837.23	309	250	250	45	110	107	8	N/A	
2	10	.30		1.2	880.38	309	249	253	46	111	107	8		
3	15	.27		.86	883.47	312	249	252	47	112	107	7		
4	20	.23		.99	885.95	314	250	250	48	112	107	8		
5	25	.28		1.1	891.57	313	250	250	49	114	107	9		
6	30	.25		1.0	894.40	312	249	249	50	114	107	9		
7	35	.32		1.3	897.47	313	250	250	51	113	106	10		
8	40	.21		.86	900.13	310	251	251	52	112	106	8		
9	45	.20		.82	902.69	308	250	250	53	111	105	8		
10	50	.23		.94	905.39	303	249	249	54	112	106	9		
11	55	.25		1.0	908.21	306	250	250	55	112	105	9		
12	60	.20		.82	910.77	308	250	251	56	112	105	8		
Total	350			23.31	7987.00									
Average	5.0			.816	307.192									

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

17.14
1348
91.338
1275
20

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Date Sheet

TESTING TYPE: HCL

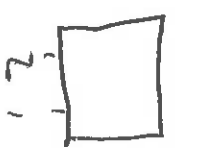
RUN NO. 3

METHOD NO. 26A

Page 2 of 3

Client	BIG RIVERS	
Plant	ROBARDS, KY	
Location	GREEN UNIT 1 INLETA	
Date	07/27/11	Project No. 3648
Meter Operator	JD	
Probe Operator	PC	
Meter ID	M-16	Pitot Cp .84
ΔH@	1.845	Leak check
Pre Leak Check	0.000	(cfm) [ppm] @ 21 (inHg)
Post Leak Check	0.000	(cfm) [ppm] @ 14 (inHg)

Barometric (inHg)	29.73	Water (ml) [g]	
Ambient Temp (°F)	98°F	Silica gel (g)	
Static (inHg)	-16.0	Total Vic	
Probe ID	AES-12.3	Liner Type	TPE
Nozzle ID	.275	Nozzle Dia (in)	.275
Filter ID			
Train ID	FR-	Train Type	IMP
Duct Dim. (in)	162.00	Port Length (in)	
Start Time	14:08	Stop Time	



Traverse Point	Min/Point	Elapsed Time	Velocity Pressure		Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes	
			ΔP (inH ₂ O)	Pressure (inH ₂ O)												
13		65	.18		.74	1877.23	307	250	250	57	108	103	8	N/A		
1-1		70	.31		1.3	916.47	303	251	249	58	109	103	12			
2		75	.82		1.1	919.38	303	250	250	59	116	103	17			
3		80	1.2		.86	922.00	302	249	249	58	110	103	9			
4		85	.72		.94	924.78	303	250	250	58	109	103	9			
5		90	.25		1.0	927.51	306	251	250	56	110	103	11			
6		95	.25		1.0	930.33	305	250	250	54	110	103	11			
7		100	.23		.94	933.07	307	250	249	51	109	103	10			
8		105	.18		.74	935.47	308	250	250	52	109	103	9			
9		110	.15		.62	937.64	306	251	251	53	109	103	8			
10		115	.18		.84	940.08	305	250	250	54	109	103	9			
11		120	.21		.86	942.67	304	250	249	55	109	103	9			
Total		130			10.84	7654										
Average		5.0														

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	Big Rivers - Green Station		
Plant	Robards, KY		
Location	ESP Inlet		
Date	7-26-11	Unit	1A
Operator	AL		

Run No.	Method No.	Train ID	Filter No.		
Contents	Take with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	H ₂ SO ₄	635.2	740.4 - 50		
Impinger No. 2	H ₂ SO ₄	719.0	752.3		
Impinger No. 3	Empty	615.2	530.1		
Impinger No. 4	Silica	887.0	915.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	Method No.	Train ID	Filter No.		
Contents	Take with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	H ₂ SO ₄	706.6	812.0 - 50		
Impinger No. 2	H ₂ SO ₄	730.9	763.0		
Impinger No. 3	Empty	637.4	651.3		
Impinger No. 4	Silica	859.4	894.6		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	Method No.	Train ID	Filter No.		
Contents	Take with Contents (g)	Final (g)	Total (g)	Notes	
Impinger No. 1	H ₂ SO ₄	633.5	730.5 - 50		
Impinger No. 2	H ₂ SO ₄	721.5	747.3		
Impinger No. 3	Empty	519.4	730.5 534.5		
Impinger No. 4	Silica	915.0	937.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

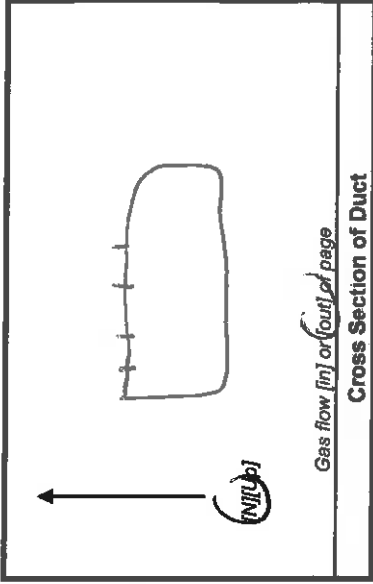
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. _____

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Client	Big River
Plant	Roberts Ky
Location	Green unit 1 inlet A
Date	7-27-11
Project No.	3648
Meter Reader	CS



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-16.2
Ambient Temp. (°F)	90
Start Time	7:53
Stop Time	9:26

Sample Train A

Rebel

Trap ID	95180	Meter ID	A-22028	Yd	1.0010
Pre Leak Check	1.000	ipm @		17	(in. Hg)
Post Leak Check	1.000	ipm @		17	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	2.11	301	95	5	Trap
10	.4	4.16	301	96	5	
15	.4	6.06	301	99	5	
20	.4	8.16	301	102	5	
25	.4	10.06	301	106	5	
30	.4	12.01	301	110	5	
35	.4	14.12	301	111	5	
40	.4	16.06	301	113	5	
45	.4	18.30	301	115	5	
50	.4	20.40	301	116	6	
55	.4	22.42	301	118	7	
60	.4	24.43	301	119	7	
Total		36.90	301.3	129.9		
Average			301.33	113.11		

Sample Train B

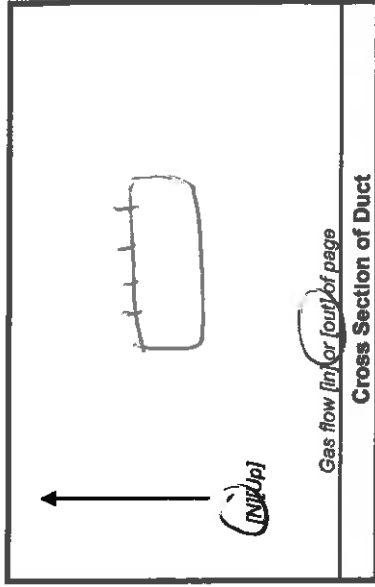
Rebel

Trap ID	94138	Meter ID	A-22018	Yd	1.9985
Pre Leak Check	1.000	ipm @		15	(in. Hg)
Post Leak Check	1.000	ipm @		15	(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.4	2.21	301	95	3	Trap
10	.4	4.36	301	96	3	
15	.4	6.30	301	99	3	
20	.4	8.24	301	102	3	
25	.4	10.15	301	106	3	
30	.4	12.26	301	110	3	
35	.4	14.30	301	111	3	
40	.4	16.32	301	113	3	
45	.4	18.41	301	114	3	
50	.4	20.50	301	116	3	
55	.4	22.60	301	118	3	
60	.4	24.79	301	119	3	
Total		36.65	301.2	129.9		
Average			301.33	113.11		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Client	Big Rivers
Plant	Robards Ky
Location	Green unit intake
Date	7-27-11
Project No.	3648
Meter Reader	C-S



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-16.6
Ambient Temp. (°F)	90
Start Time	7:57
Stop Time	9:26

Sample Train A

Trap ID	95182	Meter ID	R-20018	Yd	1.0012
Pre Leak Check		ipm @	17		(in. Hg)
Post Leak Check		ipm @	14		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	.4	26.36	302	121	7	237
70	.4	28.41	302	122	7	237
75	.4	30.44	302	123	7	237
80	.4	32.70	302	123	7	240
85	.4	34.82	302	124	7	241
90	.4	36.90	302	124	7	241
Total		36.90	1812	757		
Average		301.33	113.11			

3612 1291

Sample Train B

Trap ID	94381	Meter ID	R-20018	Yd	1.9985
Pre Leak Check		ipm @	16		(in. Hg)
Post Leak Check		ipm @	10		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	.4	28.52	302	121	4	26.02
70	.4	28.72	302	122	4	237
75	.4	30.69	302	123	4	237
80	.4	32.71	302	123	4	240
85	.4	34.69	302	124	4	241
90	.4	36.65	302	124	4	241
Total		36.65	1812	737		
Average		301.33	113.11			

237

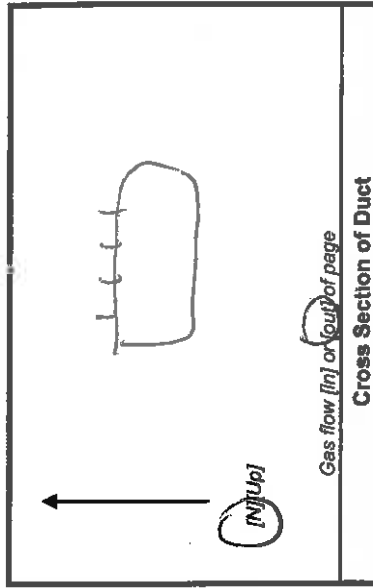
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	Big Rivers
Plant	Robards Ky
Location	Green Unit 1 Inlet A
Date	7-27-11
Project No.	3648
Meter Reader	C.S.



Barometric (in. Hg)	29.045
Static (in H ₂ O)	-1.600
Ambient Temp. (°F)	98
Start Time	11:16
Stop Time	12:48

Sample Train A

Trap ID	95083	Meter ID	R-20078	Yd	100
Pre Leak Check	1000	lpm @	15	(in. Hg)	
Post Leak Check	1000	lpm @	15	(in. Hg)	

Sample Train B

Trap ID	94339	Meter ID	R-20018	Yd	197
Pre Leak Check	1000	lpm @	15	(in. Hg)	
Post Leak Check	1000	lpm @	15	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	5	4	2.09	301	100	5	Tap
10	10	4	4.19	301	100	5	205
15	15	4	6.17	301	104	5	205
20	20	4	8.27	302	105	5	207
25	25	4	10.39	304	106	6	208
30	30	4	12.41	305	107	6	208
35	35	4	14.36	300	106	7	209
40	40	4	16.35	301	109	7	209
45	45	4	18.39	301	112	7	231
50	50	4	20.42	301	115	8	230
55	55	4	22.39	303	117	8	234
60	60	4	24.60	303	118	8	234
Total			36.70	3007	109.3		
Average				3007	107.9		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	5	4	2.21	301	100	3	Tap
10	10	4	4.32	301	102	3	205
15	15	4	6.46	301	104	3	205
20	20	4	8.45	300	105	3	207
25	25	4	10.45	304	106	3	208
30	30	4	12.51	305	107	3	208
35	35	4	14.56	300	108	3	209
40	40	4	16.59	301	109	3	209
45	45	4	18.62	301	112	3	231
50	50	4	20.60	301	115	3	232
55	55	4	22.56	303	117	3	234
60	60	4	24.46	303	118	3	234
Total			36.48	3003	107.3		
Average				3007	107.9		

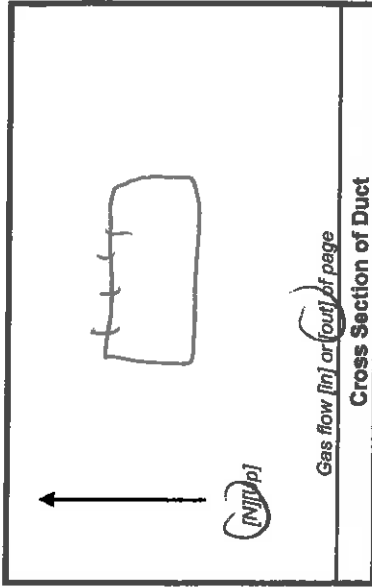
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	Big Rivers
Plant	Roberts B
Location	Green Unit 1, 114A
Date	7-27-11
Project No.	3648
Meter Reader	C.S



Barometric (in. Hg)	29.48
Static (inH ₂ O)	-16.00
Ambient Temp. (°F)	98
Start Time	11:16
Stop Time	12:48

Sample Train A

Trap ID	95083	Meter ID	R-20078	Yd	10070
Pre Leak Check	1000	ipm @	15		(in. Hg)
Post Leak Check	1000	ipm @	15		(in. Hg)

Rental

Sample Train B

Trap ID	94339	Meter ID	R-20078	Yd	19985
Pre Leak Check	1000	ipm @	15		(in. Hg)
Post Leak Check	1000	ipm @	15		(in. Hg)

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	65	14	26.59	303	120	8	Tap
70	70	14	28.62	303	127	8	236
75	75	14	30.74	303	123	8	227
80	80	14	32.66	303	124	8	240
85	85	14	34.69	303	125	8	240
90	90	14	36.72	303	126	8	241
Total			3672				
Average			3672	144	300.07	610	107.94

3605

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	65	14	26.50	303	120	3	Tap
70	70	14	28.55	303	122	3	237
75	75	14	30.59	303	123	3	240
80	80	14	32.61	303	124	3	240
85	85	14	34.54	303	125	3	241
90	90	14	36.48	303	126	3	241
Total			3648				
Average			3648	144	300.27	646	107.94

1303

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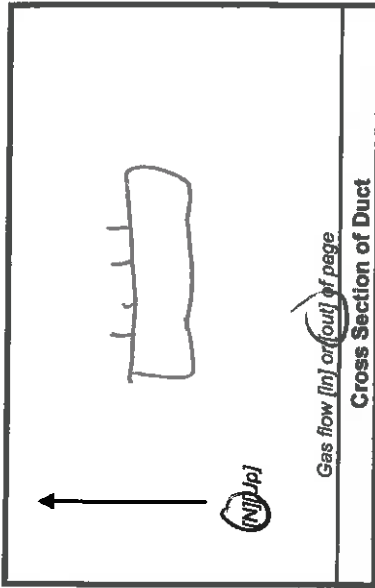
Method 30B Data Sheet

Run No. 3

Client	By Rivers
Plant	Roberts Ky
Location	Green unit 1 Inlets A
Date	7-27-11
Project No.	3648
Meter Reader	C.S

Page 1 of 2

Barometric (in. Hg)	29.45
Static (inH ₂ O)	-16
Ambient Temp. (°F)	102
Start Time	11:08
Stop Time	5:4



Rentel

Sample Train A

Trap ID	95126	Meter ID	R-20518	Yd	1000
Pre Leak Check	1000	lpm @	16		(in. Hg)
Post Leak Check	1000	lpm @	17		(in. Hg)

Sample Train B

Trap ID	94393	Meter ID	R-20018	Yd	1925
Pre Leak Check	1000	lpm @	15		(in. Hg)
Post Leak Check	1000	lpm @	10		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	14	2.07	298	108	5	Trap
10	14	4.15	298	110	5	224 15 225
15	14	6.19	298	112	6	225
20	14	8.21	301	113	6	225
25	14	10.30	303	115	6	225
30	14	12.34	303	117	6	225
35	14	14.36	303	119	6	226
40	14	16.44	303	120	7	227
45	14	18.49	303	121	7	229
50	14	20.53	303	122	7	230
55	14	22.59	303	122	7	230
60	14	24.62	303	122	8	231
Total		36.81	303	121		
Average		36.81	303.0	118.94		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	14	2.40	298	108	3	Trap
10	14	4.48	298	110	3	225
15	14	6.72	298	112	3	225
20	14	8.65	301	113	3	225
25	14	10.60	303	115	3	225
30	14	12.57	303	117	3	225
35	14	14.55	303	119	3	226
40	14	16.59	303	120	3	227
45	14	18.54	303	121	3	229
50	14	20.64	303	122	3	230
55	14	22.71	303	122	3	230
60	14	24.76	303	122	3	231
Total		36.81	303	121		
Average		36.81	303.05	118.94		

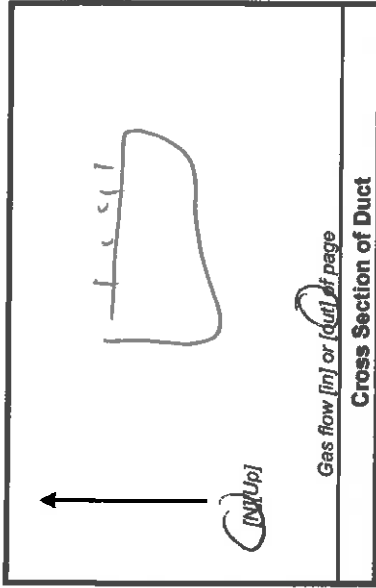
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	Big River
Plant	Refrs K
Location	Green unit Inlets
Date	7-27-11
Project No.	3648
Meter Reader	CJ



Barometric (in. Hg)	29.25
Static (inH ₂ O)	-16.0
Ambient Temp. (°F)	102
Start Time	1408
Stop Time	1514

Sample Train A

Trap ID	95108	Meter ID	R-20518	Yd	1000
Pre Leak Check			1000	lpm @	10
Post Leak Check			1000	lpm @	17

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
								5
65	14	14	26.64	303	102	9	232	
70	14	14	28.59	303	102	9	234	
75	14	14	30.57	303	103	9	235	
80	14	14	32.47	303	104	9	235	
85	14	14	34.40	303	104	10	235	
90	14	14	36.31	303	105	10	235	
Total							36.31	1818
Average							302.02	118.94

Sample Train B

Trap ID	94390	Meter ID	R-20018	Yd	995
Pre Leak Check			1000	lpm @	15
Post Leak Check			1000	lpm @	10

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes	
								5
65	14	14	26.78	303	100	3	232	
70	14	14	28.75	303	100	3	234	
75	14	14	30.70	303	103	3	235	
80	14	14	32.72	303	104	3	235	
85	14	14	34.76	303	104	3	235	
90	14	14	36.89	303	105	3	235	
Total							36.89	1818
Average							302.02	118.94

AIRTECH ENVIRONMENTAL SERVICES INC.

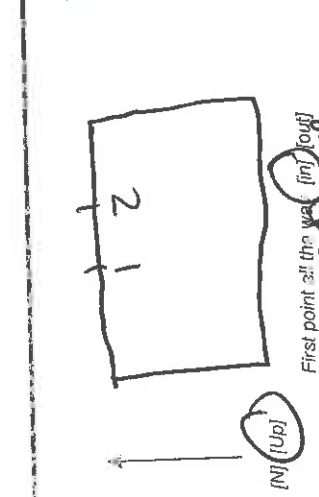
General Testing Data Sheet

TESTING TYPE: Hydrogen Chloride

METHOD NO. 261A

RUN NO. 1

Barometric (inHg)	21.45	Water (mil)	0
Ambient Temp (°F)	86	Silica gel (g)	0
Static (inH ₂ O)	-12	Total Vc	0
Probe ID	MES-12-1	Liner Type	TPE
Nozzle ID	275	Nozzle Dia (in)	.285
Filter ID	-	Train Type	DMP
Train ID	129	Port Length (in)	36
Dust Dim. (in)	13.6" x 6.6"		



Start Time	7:53	Stop Time	10:08
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Client	Big News	Project No.	2648
Plant	Repairs		
Location	Enkt B		
Date	7/27/11		
Motor Operator	NL		
Probe Operator	SG	1.0141	NR
Meter ID	M-17	Yd	1.772
ΔH@	1.772	Ki	3.87
Pre Leak Check	0.00	[cfm] [ppm] @	15 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @	15 (inHg)

Travel Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial [L] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impingers Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-1	5	.57	2.2	418.10	303	250	250	58	88	86	14		
2	10	.44	1.7	432.81	283	249	253	58	90	86	13		
3	16	.37	1.3	437.12	284	250	250	58	92	87	14		
4	20	.25	.97	431.96	285	251	250	59	95	87	14		
5	25	.19	.74	442.68	285	250	250	59	97	87	14		
6	30	.21	.81	445.32	306	249	252	59	97	87	14		
7	36	.17	.66	447.65	307	250	250	57	99	87	14		
8	40	.28	.97	450.09	304	251	250	57	100	90	10		1.2 ml
9	45	.30	1.0	452.68	305	250	250	60	101	92	13		
10	50	.36	1.1	455.61	305	250	252	60	103	93	13		
11	55	.32	1.0	458.33	305	250	250	60	107	93	11		
12	60	.29	1.1	461.82	307	250	250	60	107	94	11		
Total		13.946	29.500	64.077	307	250	250	60	107	94			
Average		5.743	1.135	77.66	304.074	250	250	60	107	94.576			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

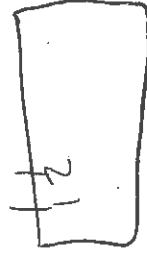
General Testing Data Sheet

TESTING TYPE: Hydrogen chloride

RUN NO. 1

METHOD NO. 26A

Client	Sue Luvers		Water (ml)	2145
Plant	Kobach		Silica gel (g)	586
Location	Plot 9		Total Vlc	TR
Date	7/27/11		Probe ID	AES-124
Meter Operator	DL		Nozzle ID	275
Probe Operator	D6		Filter ID	
Meter ID	M-1	yd	Train ID	207
ΔH@	1.272	IKF	Duct Dim. (in)	1.36 x 1.6
Pre Leak Check	0.00	[cfm] [ppm] @	Start Time	7:53
Post Leak Check	0.00	[cfm] [ppm] @	Stop Time	10:08



First point at the very (in) / out (ml) ML
 Gas flow (ml) (in) / out (ml) ML
 Cross Section of Duct

Point	Time	Velocity Pressure (inH ₂ O)	Orifice Setting ΔF (inH ₂ O)	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
1-13	65	24	93	470.11	301	250	250	61	101	71	9		
2-1	70	53	217	467.63	302	250	250	60	106	95	15		
2	95	24	117	473.90	303	250	250	61	107	96	12		
3	90	34	113	477.57	304	252	261	62	108	97	11		
4	65	26	110	480.17	305	250	250	62	108	97	11		
5	90	19	24	482.46	301	250	250	62	107	97	7		
6	95	20	277	484.45	305	251	250	62	107	97	6		
7	100	19	14	487.17	307	250	250	62	107	95	7		
8	105	26	7.0	491.93	307	252	250	63	107	95	10		
9	116	29	1.1	493.01	307	250	250	63	107	99	11		
10	115	25	47	496.14	305	250	250	63	110	100	10		
11	110	26	1.0	499.39	307	250	250	63	110	100	11		
Total		13.986	21.500	27.04	306	250	250		2682	2445			
Average		5.213	1.18	304.84	304.84				98.596				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Hydrogen chloride

METHOD NO. 76A

RUN NO. 1

Client	<u>URS Liners</u>			Barometric (inHg)	<u>29.45</u>	Water (ml)	
Plant	<u>Boers B</u>			Ambient Temp (°F)	<u>86</u>	Silica gel (g)	
Location	<u>Index B</u>			Static (inH ₂ O)	<u>-12</u>	Total Vlc	
Date	<u>10/11/08</u>			Probe ID	<u>ASS-10-4</u>	Liner Type	<u>TFE</u>
Meter Operator	<u>MS</u>			Nozzle ID	<u>125</u>	Nozzle Dia (in)	<u>3/8</u>
Probe Operator	<u>MS</u>			Filter ID		Train Type	<u>IMP</u>
Meter ID	<u>M-17</u>	Yd	<u>1014</u>	Train ID	<u>139</u>	Port Length (in)	<u>36</u>
ΔH@	<u>1.72</u>	Kf	<u>3.5X</u>	Duct Dim. (in)	<u>3.6" x 1.66"</u>		
Pre Leak Check	<u>1000</u>	[cfm] [lpm] @	<u>15</u> (inHg)	Start Time	<u>7:53</u>	Stop Time	<u>10:08</u>
Post Leak Check	<u>1000</u>	[cfm] [lpm] @	<u>15</u> (inHg)				



First point all the way (in) (out) (in) (up)

Gas flow (in) (out) of page

Cross Section of Duct

Traverse Point	Mtr./Point Elapsed Time	Velocity Pressure (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	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
2-12	125	25	97	505.70	303	250	250	63	10	10	10		
13	100	24	92	505.19	303	250	250	63	10	10	9		
Total				77.04	306				268	2445			
Average				301.04						94.696			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HC1

METHOD NO. 26A

Page 1 of 3

RUN NO. 2

Cilent	<u>Probers</u>		
Plant	<u>Roberts by</u>		
Location	<u>UNIT B</u>	Project No.	<u>3681</u>
Date	<u>7/21/11</u>		
Tester Operator	<u>MC</u>		
Probe Operator	<u>MC</u>		
Water ID	<u>M-17</u>	Yd	<u>1.0141</u>
ΔH@	<u>1.172</u>	Kf	<u>3.64</u>
Pre Leak Check	<u>0.00</u>	[cfm] [lpm] @	<u>15</u> (inHg)
Post Leak Check	<u>0.00</u>	[cfm] [lpm] @	<u>15</u> (inHg)

Barometric (inHg)	<u>29.45</u>	Water (ml)	<u>29.45</u>
Ambient Temp (°F)	<u>103</u>	Silica gel (g)	
Static (inHg)	<u>-12</u>	Total Vlc	
Probe ID	<u>AES-12-1</u>	Liner Type	<u>TPE</u>
Nozzle ID	<u>.275</u>	Nozzle Dia (in)	<u>.095</u>
Filter ID		Train Type	<u>Imp</u>
Train ID	<u>FB</u>	Port Length (in)	<u>36</u>
Duct Dim. (in)	<u>3.6" x 6.6"</u>		



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

Start Time	<u>11:16</u>	Stop Time	<u>1:34</u>
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Travel Point	Min/Point Elapsed Time	Velocity Pressures ΔP (inH ₂ O)	Orifice Setting ΔP (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGMI Inlet Temp (°F)	DGMI Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1.1	6	.54	2.1	509.55	304	750	750	57	107	101	8		
2	10	.44	1.7	513.64	304	752	752	57	109	101	6		
3	15	.33	1.3	517.21	307	750	750	56	110	102	5		
4	20	.26	1.1	523.51	307	752	752	58	110	102	4		
5	26	.17	.81	526.03	304	750	750	58	111	102	4		
6	32	.19	.73	528.37	304	750	750	57	111	102	5		
7	35	.22	.85	530.06	307	750	750	57	112	104	5		
8	40	.21	.82	533.76	305	751	751	57	112	104	5		
9	45	.20	.81	535.86	306	750	750	57	112	104	5		
10	50	.20	.81	538.71	307	750	750	57	113	105	6		
11	55	.23	.87	541.71	303	750	750	57	113	105	6		
12	60	.28	1.1	544.63	303	750	750	57	114	105	5		
Total		17.896	29.16	77.45	2889				2926	2747			
Average		1.5	1.21	5.59	302.26				108.65	99			

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HU
 METHOD NO. 26A

RUN NO. 2

Client: M. G. Luchs
 Plant: Lehigh, NY
 Location: Unit B
 Date: 7/27/11 Project No.: 3684

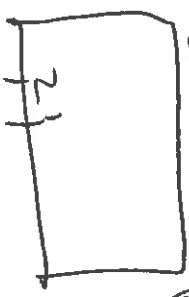
Meter Operator: MLL
 Probe Operator: DO

Meter ID: M-17 Yd: 10141 Pilot Op: 50
 ΔP@: 1.72 Kf: 3.84 Leak check: U

Pre Leak Check: .030 [cfm] [lpm] @ 15 (inHg)
 Post Leak Check: .030 [cfm] [lpm] @ 15 (inHg)

Water [ml] [g]: 27.45
 Silica gel (g): 157
 Total Vol: 12
 Liner Type: TRK
 Nozzle Dia (in): 1.276
 Train Type: SM
 Duct Dim (in): 13.6 x 16.6 Port Length (in): 26

Start Time: 11:16 Stop Time: 1:34



Traverse Point	Mini/Point Elapsed Time	Velocity ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-13	65	.25	.26	571.55	302	160	250	57	114	105	5		
2-1	40	.156	.22	547.64	301	206	250	59	114	105	8		
2	75	.14	1.2	552.75	300	240	250	66	115	105	6		
3	40	.27	1.1	555.63	300	260	250	60	115	105	6		
4	65	.15	.26	558.02	300	240	240	66	115	105	5		
5	90	.00	.27	561.89	299	250	240	60	115	105	5		
6	65	.27	.81	564.77	299	250	252	60	115	106	4		
7	100	.14	.89	567.39	296	240	240	61	115	106	4		
8	105	.27	1.0	570.19	296	252	252	61	115	106	5		
9	116	.24	.92	572.76	300	250	250	61	116	106	5		
10	115	.12	.92	575.63	300	242	242	61	116	106	5		
11	110	.25	.96	578.23	300	240	240	62	116	106	5		
Total				581.99	295	240	240	62	116	106			
Average				579.49	285.9	240	240	62	116	106			

(circle correct bracketed [] units
 Train Type denotes impingers, knockout, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

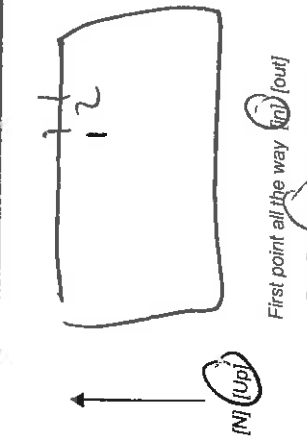
General Testing Data Sheet

TESTING TYPE: HCl

METHOD NO. 268

RUN NO. 2

Client	Pia News	
Plant	Roberts Ky	
Location	Met B	
Date	7/21/11	Project No. 3587
Meter Operator	DL	
Probe Operator	DG	
Meter ID	M-7	Yd 1.0141
ΔH@	.372	Kf 3.84
Pre Leak Check	.000	[cfm] [lpm] @ 15 (inHg)
Post Leak Check	.000	[cfm] [lpm] @ 15 (inHg)



Barometric (inHg)	29.45	Water [ml] [g]	
Ambient Temp (°F)	63	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vic	
Probe ID	AK5-R-4	Liner Type	TFF
Nozzle ID	075	Nozzle Dia (in)	.775
Filter ID	-	Train Type	JMP
Train ID	ED	Port Length (in)	36
Duct Dim. (in)	6" x 16"		

Start Time	11:16	Stop Time	1:34
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Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-16	125	125	.46	509.55	303	250	250	62	117	107	5		
13	130	124	.92	565.56	307	250	250	62	117	107	5		
Total		15.626	2.01	77.49	365				2936	7714			
Average		.537	1.12		382.69				158.65				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

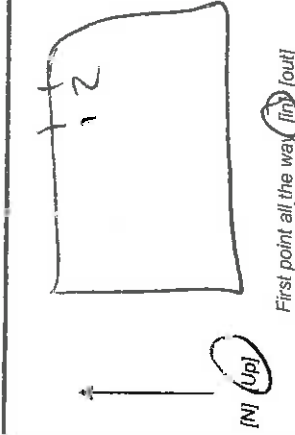
TESTING TYPE: HCl

RUN NO. 3

METHOD NO. 26A

Page 1 of 3

Client	Dix Rivers	
Plant	Petrochem	
Location	Talent, OR	
Date	11/21/11	Project No. 248
Meter Operator	ML	
Probe Operator	DG	
Meter ID	AK-17	Yd 1041
ΔH@	1.772	Kf 3.93
Pre Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)
Post Leak Check	0.00	[cfm] [ppm] @ 15 (inHg)



Barometric (inHg)	27.45	Water (ml) [g]	
Ambient Temp (°F)	105	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vlc	
Probe ID	AES-12-4	Liner Type	TPE
Nozzle ID	275	Nozzle Dia (in)	275
Filter ID			
Train ID	EB9	Train Type	JAP
Duct Dim. (in)	36" x 16"	Port Length (in)	36

Start Time	14:08	Stop Time	16:16
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Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-1	5	55	2.2	590.16	296	250	250	58	111	106	8		
2	16	46	1.9	598.15	292	250	250	58	114	106	6		
3	15	26	1.4	601.52	295	250	250	58	115	107	5		
4	20	29	1.7	604.56	296	250	250	58	117	107	5		
5	25	29	1.7	604.57	321	252	252	58	117	107	5		
6	30	19	1.5	609.90	302	250	251	59	114	107	4		
7	25	16	1.2	611.97	297	250	250	59	117	108	4		
8	40	25	1.8	614.67	300	250	250	59	119	108	5		
9	45	27	1.1	617.44	352	250	250	59	119	109	5		
10	10	34	1.3	620.40	307	251	250	66	120	109	5		
11	55	33	1.3	623.60	307	250	252	66	120	109	5		
12	60	29	1.1	626.77	304	250	250	60	120	109	5		
Total		13.09	30.03	79.56	7649				3107	2830			
Average		5.35	1.165		301.686				114.096				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 3

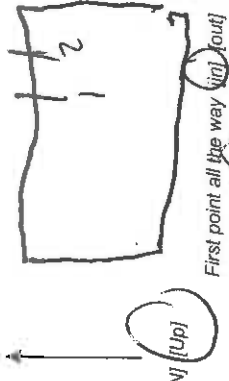
TESTING TYPE: HC

METHOD NO. 26A

Page 2 of 3

Client	Dix Rivers	
Plant	Lambert, KY	
Location	Inlet 0	
Date	11/21/11	Project No. 3648
Meter Operator	ML	
Probe Operator	DG	
Meter ID	1272	Yd
ΔH@	3.13	Kt
Pre Leak Check	160	[cfm] [ipm] @
Post Leak Check	400	[cfm] [ipm] @
		Pilot Cp
		Leak check
		Stack Temp (°F)
		(inHg)

Barometric (inHg)	29.95	Water [mil] [g]	
Ambient Temp (°F)	105	Silica gel (g)	
Static (inH ₂ O)	-12	Total Vic	
Probe ID	AES-12-1	Liner Type	TFE
Nozzle ID	.175	Nozzle Dia (in)	1.75
Filter ID			
Train ID	IB7	Train Type	DMP
Duct Dim. (in)	3.6" x 1.6"	Port Length (in)	36



Start Time	14:08	Stop Time	16:16
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Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	C:ifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
2-13	65	2.5	94	570.19	307	250	250	60	120	109	5		
1-1	76	5.4	2.1	629.64	304	250	250	60	120	109	8		
2	75	4.3	1.7	635.0	304	250	252	60	120	110	6		
3	40	2.5	1.7	641.58	305	250	250	60	121	110	5		
4	85	3.6	1.0	644.34	304	252	256	61	121	110	4		
5	90	2.1	4.3	647.52	304	250	250	61	121	110	5		
6	45	2.2	6.2	650.43	304	250	250	61	121	110	4		
7	107	1.9	7.5	653.19	306	250	250	61	121	110	4		
8	105	2.6	1.0	656.70	307	250	250	61	122	110	4		
9	110	2.5	9.4	659.44	304	251	250	61	122	110	5		
10	115	2.7	9.0	663.04	305	250	250	61	122	110	5		
11	170	2.4	9.4	665.12	306	250	250	61	122	110	5		
Total		13.94	20.03	668.56	765.9				209	257.0			
Average		5.25	1.15		301.85				114.016				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: HCL

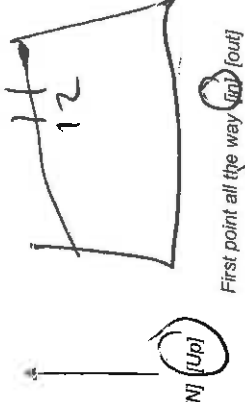
RUN NO. 3

METHOD NO. 26A

Page 3 of 3

Client	<u>Bio (Ver)</u>		
Plant	<u>Refrigerant</u>		
Location	<u>Truck</u>		
Date	<u>7/21/11</u>	Project No.	<u>3606</u>
Meter Operator	<u>DK</u>		
Probe Operator	<u>DK</u>		
Meter ID	<u>M-17</u>	γ_d	<u>1.014</u>
ΔH	<u>1.77</u>	κ	<u>3.97</u>
P/e Leak Check	<u>.000</u>	[cfm] [ppm] @	<u>15</u> (inHg)
Post Leak Check	<u>.000</u>	[cfm] [ppm] @	<u>15</u> (inHg)

Barometric (inHg)	<u>29.45</u>	Water (ml) [g]	
Ambient Temp (°F)	<u>103</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-12</u>	Total Vic	
Probe ID	<u>ABS-12-0</u>	Line Type	<u>TPE</u>
Nozzle ID	<u>275</u>	Nozzle Dia (in)	<u>.075</u>
Filter ID			
Train ID	<u>B37</u>	Train Type	<u>TMP</u>
Duct Dim (in)	<u>3.6 x 6.6</u>	Port Length (in)	<u>36</u>



Start Time	<u>14:08</u>	Stop Time	<u>16:16</u>
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Traverse Point	Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1-12	5	125	.25	.96	590.19	363	250	61	122	110	5		
17	5	130	.24	.94	667.34	387	250	61	122	110	5		
Total			13.87	30.07	779.56	7849							
Average			5.95	1.155		39.885							

Circled correct bracketed [] units
Tr in Type denotes impingers, knockouts, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3643

Page 7 of 1

Client	Big Rivers - Green Station		
Plant	Robards, KY		
Location	ESP Inlet		
Date	7-26-11	Unit	1B
Operator	AL		

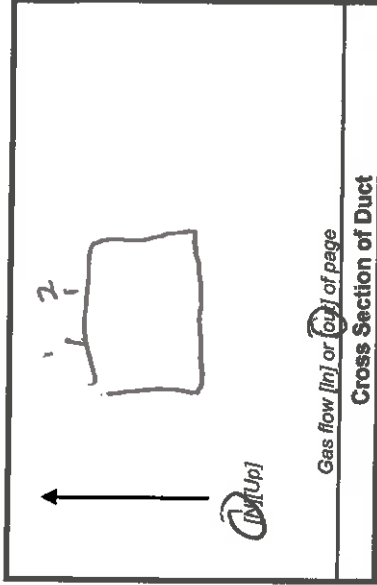
Run No.	1	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H ₂ SO ₄	653.8	744.3	150	
Impinger No. 2	H ₂ SO ₄	693.4	709.7		
Impinger No. 3	Empty	605.1	616.7		
Impinger No. 4	Silica	860.3	891.0		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	2	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H ₂ SO ₄	719.4	750.0	150	
Impinger No. 2	H ₂ SO ₄	745.4	758.4		
Impinger No. 3	Empty	616.7	619.5		
Impinger No. 4	Silica	902.3	926.2		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No.	3	Train ID		Filter No.	NA
Method No.	26A				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	H ₂ SO ₄	659.1	837.7	150	
Impinger No. 2	H ₂ SO ₄	696.8	721.3		
Impinger No. 3	Empty	608.5	615.7		
Impinger No. 4	Silica	890.6	899.7		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
				Net Weight (g)	

Run No. 1

Client	BIG RIVERS
Plant	ROBERTS, KY
Location	INLET B
Date	7-27-11
Project No.	3018-GREEN
Meter Reader	BK



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-10.0
Ambient Temp. (°F)	86
Start Time	0753
Stop Time	0936

Sample Train A UNSPIKED

Trap ID	95187	Meter ID	M-26	Yd	15	9958
Pre Leak Check	0.003	lpm @		lpm @	15	(in. Hg)
Post Leak Check	0.002	lpm @		lpm @	7	(in. Hg)

Mini/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes
5	5	40LPM	1.938	302	91	3	228
	10		4.166	301	92	3	230
	15		6.086	303	93	4	232
	20		7.957	305	99	4	232
	25		10.001	305	100	4	232
	30		12.093	305	103	4	231
	35		14.004	306	105	4	231
	40		15.994	305	108	4	230
	45		18.018	305	111	4	231
	50		20.051	305	112	4	232
	55		21.992	304	114	4	232
	60		24.060	305	116	4	232
Total			36.161	305	1214		
Average			301.32	304.32	108.78		

Sample Train B SPIKED

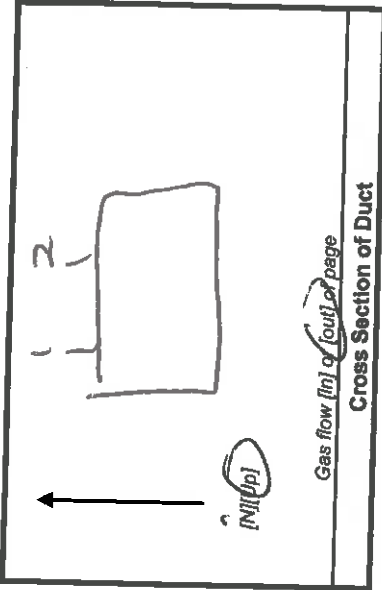
Trap ID	94370	Meter ID	M-26	Yd	15	9902
Pre Leak Check	0.003	lpm @		lpm @	15	(in. Hg)
Post Leak Check	0.002	lpm @		lpm @	5	(in. Hg)

Mini/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes
5	5	40LPM	1.874	302	91	2	228
	10		4.046	301	93	2	230
	15		6.152	303	95	2	232
	20		7.777	305	101	2	232
	25		10.156	305	102	2	232
	30		12.198	305	105	2	231
	35		14.092	306	109	3	231
	40		15.968	305	112	3	230
	45		17.989	305	113	3	231
	50		20.048	305	115	3	232
	55		22.086	304	117	3	232
	60		23.978	305	119	3	232
Total			36.237	305	1272		
Average			301.32	304.32	110.78		

AIRTECH ENVIRONMENTAL SERVICES INC.
Method 30B Data Sheet

Run No. _____ Page 2 of 2

Client	BIG RIVERS
Plant	REBARDS, KY
Location	TRAIL B
Date	7-27-11
Project No.	3048-GREEN
Meter Reader	BK



Barometric (in. Hg)	29.45
Static (InH ₂ O)	-10.0
Ambient Temp. (°F)	86
Start Time	0753
Stop Time	0936

Sample Train A UNARRIVED

Trap ID	95187	Meter ID	M-26	Yd	15
Pre Leak Check	0.002	lpm @	7	(in. Hg)	0.9950
Post Leak Check	0.002	lpm @	7	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
5		0.000				
Elapsed Time						
65	406M	25.97	306	117	4	231
70		28.09	304	120	4	232
75		30.06	304	118	4	232
80		31.947	305	119	4	232
85		34.053	304	120	4	232
90	↓	36.161	304	120	4	232
Total		(36.16)	1827	714		
Average						

Sample Train B SKIPPED

Trap ID	94370	Meter ID	M-26	Yd	15
Pre Leak Check	0.003	lpm @	5	(in. Hg)	0.9902
Post Leak Check	0.002	lpm @	5	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in. Hg)	Notes
5		0.000				
Elapsed Time						
65	404M	26.157	306	120	3	231
70		27.952	304	121	3	232
75		30.019	304	119	3	232
80		31.976	305	120	3	233
85		34.013	304	120	3	232
90		36.237	304	122	3	232
Total		36.237	1827	732		
Average						

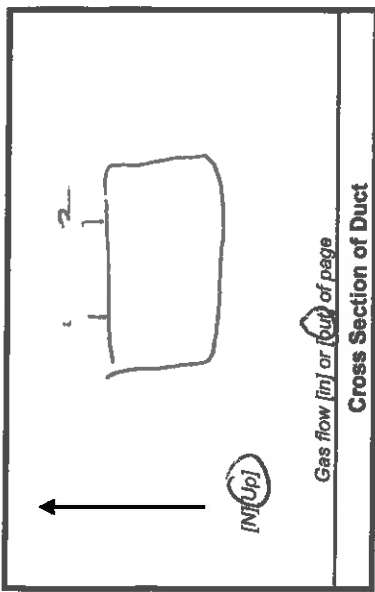
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 1 of 2

Client	BIG RIVERS
Plant	ROBERTS, KY
Location	INLET B
Date	7-27-11
Project No.	3618 - GREEN
Meter Reader	BYC



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	103
Start Time	1116
Stop Time	1254

Sample Train A UNSPIKED

Trap ID	95170	Meter ID	M-26	Yd	.9958
Pre Leak Check	0.002	lpm @	15	(in. Hg)	
Post Leak Check	0.000	lpm @	6	(in. Hg)	

Sample Train B SPIKED

Trap ID	94365	Meter ID	M-26	Yd	.9902
Pre Leak Check	0.004	lpm @	15	(in. Hg)	
Post Leak Check	0.000	lpm @	5	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes
5	5	.40 lpm	2.038	307	103	4	233
10	10		4.063	307	104	4	233
15	15		5.987	307	105	4	232
20	20		8.111	307	107	4	232
25	25		10.074	307	109	4	233
30	30		12.009	307	112	4	233
35	35		14.037	307	114	4	232
40	40		16.047	307	116	4	232
45	45		18.022	307	117	4	232
50	50		20.028	307	119	5	231
55	55		22.051	307	120	5	231
60	60	↓	24.069	307	122	5	232
Total			36.016	307	1348		
Average			601.00	307.00	115.72		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes
5	5	.40 lpm	1.974	307	103	2	233
10	10		3.978	307	103	2	233
15	15		6.037	307	105	2	232
20	20		8.004	307	108	2	232
25	25		9.989	307	110	2	233
30	30		12.002	307	114	2	233
35	35		14.070	307	115	2	232
40	40		16.070	307	118	2	232
45	45		18.041	307	119	2	232
50	50		20.031	307	121	3	231
55	55		22.072	307	122	3	231
60	60	↓	24.076	307	123	3	232
Total			36.033	307	1361		
Average			601.00	307.00	116.72		

2-1
2
3
1-1

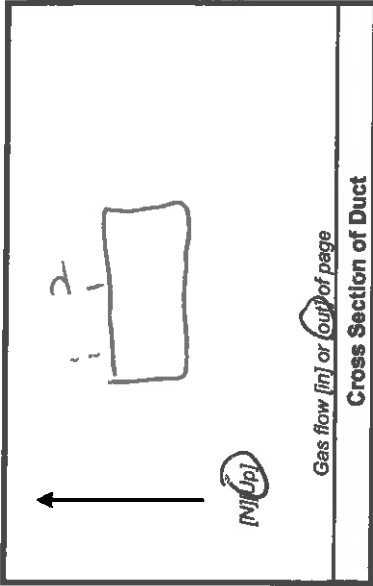
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	BIG RIVERS
Plant	ROBARDS, KY
Location	JULIET B
Date	7-27-11
Project No.	3648-Genes
Meter Reader	BK



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	103
Start Time	1116
Stop Time	1254

Sample Train A UNSKID

Trap ID	95170	Meter ID	M-26	Yd	15	9958
Pre Leak Check	0.002	lpm @		lpm @		(in. Hg)
Post Leak Check	0.000	lpm @		lpm @		(in. Hg)

Sample Train B SKID

Trap ID	94365	Meter ID	M-26	Yd	15	9902
Pre Leak Check	0.004	lpm @		lpm @		(in. Hg)
Post Leak Check	0.000	lpm @		lpm @		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes	
							Elapsed Time
5	40lpm	26.05	307	122	5	232	
65		28.021	307	123	4	231	
70		29.965	307	122	4	231	
75		32.118	307	122	4	232	
80		33.998	307	123	4	232	
85		36.016	307	123	4	231	
90							
Total						1842	735
Average							

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Notes	
							Elapsed Time
5	40lpm	0.000	307	123	3	232	
65		27.997	307	124	2	231	
70		29.994	307	123	2	231	
75		32.012	307	123	2	232	
80		34.021	307	123	2	232	
85		36.033	307	124	2	231	
90							
Total						1842	740
Average							

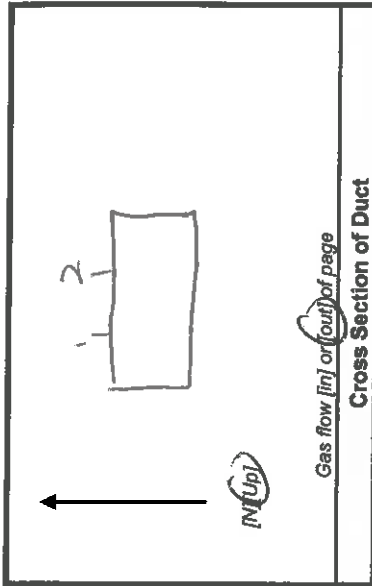
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	Big Rivers
Plant	ROBARDS, KY
Location	INLET B
Date	7-27-11
Project No.	36418 - GREEN
Meter Reader	BK



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	105
Start Time	1408
Stop Time	1549

Sample Train A UNSPIKED

Trap ID	95192	Meter ID	M-26	Yd	15	9958
Pre Leak Check	0.003	ipm @			8	(in. Hg)
Post Leak Check	0.001	ipm @				(in. Hg)

Sample Train B SPIKED

Trap ID	94400	Meter ID	M-26	Yd	15	9903
Pre Leak Check	0.005	ipm @			7	(in. Hg)
Post Leak Check	0.003	ipm @				(in. Hg)

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Meters
5	5	.40 lpm	2.073	296	110	4	231
	10		4.066	296	110	4	231
	15		6.011	296	110	4	232
	20		8.009	294	112	4	232
	25		9.997	294	113	4	232
	30		12.075	295	116	4	232
	35		13.991	297	117	4	230
	40		16.186	296	120	4	231
	45		18.021	296	121	4	232
	50		20.071	297	123	4	232
	55		22.031	298	124	5	232
	60		24.026	298	125	5	231
Total			(36.111)	3552	1401		
Average				(296.67)	(119.94)		

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Meters
5	5	.40 lpm	2.092	296	110	2	231
	10		4.031	296	110	2	231
	15		5.984	296	110	2	232
	20		7.962	294	113	2	232
	25		10.004	294	114	2	232
	30		12.001	295	118	2	232
	35		14.094	297	119	2	230
	40		16.104	296	122	2	231
	45		18.087	296	123	2	232
	50		20.096	297	125	2	232
	55		22.069	298	125	3	232
	60		24.064	298	127	3	231
Total			(36.041)	3552	1416		
Average				(296.61)	(120.94)		

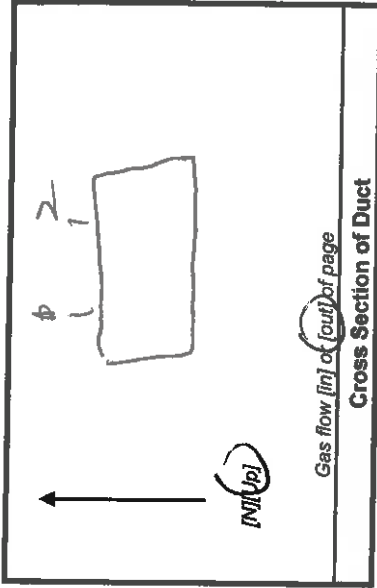
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Client	BIG RIVERS
Plant	ROBARDS, KY
Location	INLET B
Date	7-27-11
Project No.	3648-Gen
Meter Reader	PK

Barometric (in. Hg)	29.45
Static (inH ₂ O)	-12.0
Ambient Temp. (°F)	105
Start Time	1408
Stop Time	1549



Sample Train A UNSKED

Trap ID	95192	Meter ID	M-26	Yd	.9952
Pre Leak Check	0.003	lpm @	15	(in. Hg)	
Post Leak Check	0.001	lpm @	8	(in. Hg)	

Sample Train B SKED

Trap ID	94400	Meter ID	M-26	Yd	.9902
Pre Leak Check	0.005	lpm @	15	(in. Hg)	
Post Leak Check	0.003	lpm @	7	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Meters	
								5
2-2	65	40 lpm	26.087	298	125	5	231	
	70		28.106	298	127	5	232	
	75		30.040	298	127	5	232	
3	80		32.005	297	127	5	231	
	85		34.096	298	126	5	232	
	90	↓	36.111	298	126	5	232	
Total							1787	758
Average								

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	TRAP TEMP Meters	
								5
	65	40 lpm	26.035	298	127	3	231	
	70		28.114	298	129	3	232	
	75		30.025	298	127	3	232	
	80		32.074	297	126	3	231	
	85		34.077	298	126	3	232	
	90	↓	36.011	298	126	3	232	
Total							1787	761
Average								

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Particulate

1

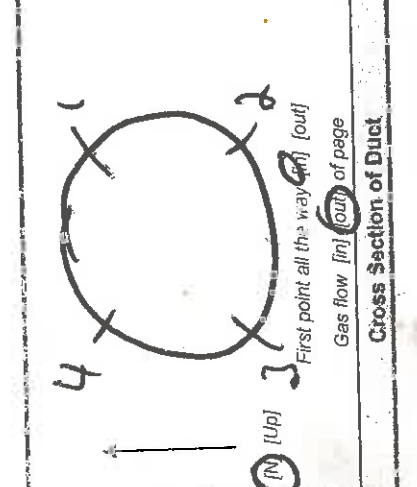
Page 1 of 1

METHOD NO. S/200d

RUN NO. 1701

Client: Big Lives
 Plant: Green
 Location: Outlet Unit
 Date: 7/27/11 Project No. 3648
 Meter Operator: EA
 Probe Operator: Brk/JL 1.0034M
 Meter ID: M-27 Yd 9976 Pitot Cp -81
 ΔH@: 1-225 Kf 779 Leak check: -
 Pre Leak Check: -000 @ 6 [lpm] @ 17 (in-Hg)
 Post Leak Check: 000 @ 6 [lpm] @ 13 (in-Hg)

Barometric (in-Hg): 29.95 Water (ml) [g]
 Ambient Temp (°F): 90 Silica gel (g)
 Statte (in-H₂O): -2 Total Vlc
 Probe ID: AES-6-11 Liner Type: Glass
 Nozzle ID: .17 Nozzle Dia (in): .175
 Filter ID: 12145 Train Type: TMP
 Train ID: JB4 Port Length (in): 12
 Dust Dim. (in): 180



Start Time: 753 Stop Time: 1015

Min/Point	Velocity Pressure ΔP (in-H ₂ O)	Orifice Setting ΔH (in-H ₂ O)	Gas Sample Volume initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (in-Hg)	Auxiliary Temp (°F)	Notes
1	7.5	2.2	1.7	108.50	320	320	68	86	85	8	86	37317
2	15	2.2	1.7	113.70	331	318	68	87	87	8	86	
3	22.5	1.9	1.5	118.90	317	323	67	91	88	8	87	
1	30	2.2	1.7	129.10	315	318	64	91	90	10	89	
2	37.5	2.2	1.7	134.25	321	321	64	94	90	10	89	
3	45	2.0	1.6	139.37	324	321	64	96	92	10	89	
1	52.5	2.3	1.8	144.79	322	316	66	96	92	10	88	
2	60	2.1	1.7	150.10	327	310	66	96	92	11	88	
3	67.5	1.8	1.4	154.94	330	324	67	97	93	12	87	
1	75	2.3	1.8	160.60	326	312	67	96	92	12	86	
2	82.5	2.1	1.7	166.00	320	320	67	96	92	12	85	
3	90	1.8	1.4	172.06	329	315	67	98	94	10	85	
Total				1558				1125	1082			
Average				163.56				92.0				

Circle correct bracketed [] units
 Train Type denotes in-pinger, knock-out, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

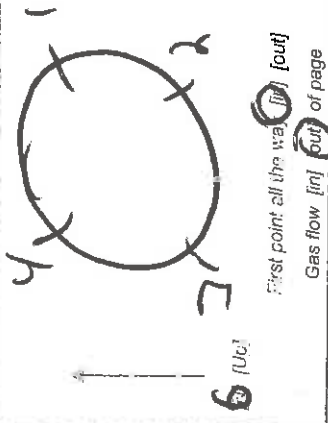
TESTING TYPE: Particulate

RUN NO. 2

METHOD NO. SB/200

Page 1 of 1

Client Big Rivers
 Plant Green
 Location Outlet Unit 1
 Date 7/27/11 Project No. 3698
 Meter Operator EA
 Probe Operator JLB/K 1.0034 AB
 Meter ID M-27 Yd .84 Pitot Cp .84
 ΔH@ 1.275 [K] .79 Leak check -
 Pre Leak Check .000 [ppm] @ 15 (inHg)
 Post Leak Check .000 [ppm] @ 15 (inHg)



Barometrs (inHg) 29.45 Water [ml] [g]
 Ambient Temp (°F) 90 Silica gel (g)
 Static (inH₂O) -2 Total Vic
 Probe ID AES-6-11 Liner Type GLS
 Nozzle ID 1A-17 Nozzle Dia (in) 1.75
 Filter ID 12146
 Train ID IB23 Train Type IM
 Duct Dim. (in) 1.80 Port Length (in) 12

Start Time 1116 Stop Time 1500
 140054

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	2.5	2.4	1.9	176.80	130	320	320	68	93	93	10	84	
2	1.5	2.2	1.8	182.45	129	319	318	66	95	93	10	80	
3	22.5	1.9	1.5	187.88	129	322	326	66	97	95	8	84	
1	30	2.3	1.8	192.91	129	326	319	65	99	94	10	84	
2	37.5	2.1	1.7	198.35	130	320	318	66	101	96	10	84	
3	45	2.0	1.6	203.70	130	316	320	65	102	97	10	83	
1	52.5	2.4	1.9	208.84	130	316	321	66	103	98	11	84	
2	60	2.2	1.8	214.40	129	317	316	64	103	97	11	80	
3	67.5	2.0	1.6	220.09	131	326	321	64	102	99	10	83	
1	75	2.2	1.8	224.94	129	314	318	65	103	98	10	84	
2	82.5	2.2	1.8	230.14	130	320	318	65	104	99	12	80	
3	90	1.9	1.5	235.60	130	320	318	65	104	99	10	80	
Total				1758.20	130	320	318	65	104	99	10	80	
Average				(64.3)	130	320	318	65	104	99	10	80	

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

RUN NO. 3

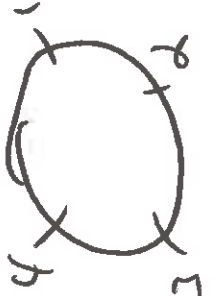
TESTING TYPE: Particulate

METHOD NO. SB/202

Page 1 of 1

Client	Big Rivers		
Plant	Green		
Location	Unit 1 outlet		
Date	7/12/11	Project No.	3648
Meter Operator	EA		
Probe Operator	JL/Brk		
Meter ID	M-27	Yd	9976
ΔH@	1.895	ΔH	.79
Pre Leak Check	.001	[cfm] [ipm] @	15 (inHg)
Post Leak Check	.000	[cfm] [ipm] @	15 (inHg)

Barometric (inHg)	29.45	Water [ml] [g]	
Ambient Temp (°F)	90	Silica gel (g)	
Static (inHg)	-.2	Total Vlc	
Probe ID	AES-6-11	Liner Type	Glass
Nozzle ID	19.17	Nozzle Dia (in)	194-185 EA
Filter ID	12147	Train Type	IMC
Train ID	184	Port Length (in)	12
Duct Dim. (in)	180		
Start Time	1408	Stop Time	1624



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

Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³)	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
7.5	2.3	1.9	241.70	128	320	320	67	97	97	9	82	
1	17.5	1.9	247.31	128	319	312	64	99	98	9	80	
2	15	1.9	252.75	128	324	324	63	100	98	9	80	
3	22.5	1.9	257.57	128	321	316	64	102	98	10	81	
1	30	1.8	263.06	129	325	317	64	104	98	10	76	
2	37.5	1.8	268.51	128	320	320	65	104	98	9	83	
3	45	1.5	273.54	129	317	317	66	105	100	11	83	
1	52.5	1.9	279.41	128	327	322	66	105	101	12	83	
2	60	1.9	285.49	129	320	319	66	105	101	12	81	
3	67.5	1.8	290.95	128	321	320	66	106	102	13	79	
1	75	2.0	296.47	129	320	316	65	106	102	12	79	
2	82.5	1.8	301.98	128	323	323	65	106	102	12	79	
3	90	1.6	307.44	128	320	320	64	106	102	10	79	
Total	1765	21.10	65.49	1340				1239	1197			
Average	14679	1.7583	128.3					101.5				

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3046

Client	Big Rivers Energy - Green Station		
Plant	Rehards, KY		
Location	Common Stack		
Date	7-26-11	Unit	1
Operator	AL		

Run No.	1	Train ID	Filter No.	12145	
Method No.	SB/202				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	613.6	803.3		
Impinger No. 2	DI	733.5	725.4		
Impinger No. 3	Empty	626.4	631.2		
Impinger No. 4	Silica	918.4	936.8		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2	Train ID	Filter No.	12146	
Method No.	SB/202				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	550.8	733.7		
Impinger No. 2	DI	737.3	724.7		
Impinger No. 3	Empty	567.6	571.4		
Impinger No. 4	Silica	913.2	934.9		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3	Train ID	Filter No.	12147	
Method No.	SB/202				
	Contents	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	615.2	800.4		
Impinger No. 2	DI	731.4	723.8		
Impinger No. 3	Empty	628.6	631.0		
Impinger No. 4	Silica	936.8	952.8		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

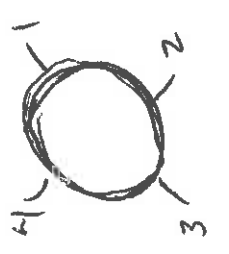
TESTING TYPE: HCL

RUN NO. 1

METHOD NO. ZL6A

Page () of ()

Client	Big Rivers		Barometric (inHg)	29.45	Water [ml] [g]	
Plant	Henderson		Ambient Temp (°F)	90	Silica gel (g)	
Location	Outlet		Static (inH ₂ O)	-0.2	Total Vlc	
Date	7/27/11	Project No. 3648	Probe ID	AE-S-6-4	Liner Type	CO/ASS
Meter Operator	JL		Nozzle ID	019	Nozzle Dia (in)	0.194
Probe Operator	JL		Filter ID	N/A	Train Type	imp
Meter ID	M-28	Yd 09976	Train ID	25	Duct Dim. (in)	180
ΔH@	18295	KF 1019			Start Time	7:53
Pre Leak Check	0.00	[cfm] [ppm] @ 10			Stop Time	10:13
Post Leak Check	0.00	[cfm] [ppm] @ 15				



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Min/Point	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	2.3	2.74	637.03	132	264	200	50	91	87	10	N/A	
2	2.3	2.7	640.52	131	260	200	51	95	89	10		
3	1.0	1.9	655.23	132	261	200	51	100	90	10		
1	2.4	2.9	664.59	132	259	200	52	105	92	10		
2	2.3	2.7	674.07	133	259	200	53	109	90	10		
3	1.7	2.0	682.23	132	260	200	54	108	98	10		
1	2.4	2.8	691.50	132	263	200	55	109	99	10		
2	2.2	2.6	700.89	131	260	200	55	110	99	10		
3	1.5	1.8	708.05	131	259	200	50	110	100	10		
1	2.3	2.7	716.91	131	262	200	57	112	101	10		
2	2.0	2.6	720.25	131	263	200	57	112	102	10		
3	1.0	1.9	735.17	131	262	200	58	112	102	10		
Total			121890	29.30								
Average			14325	2.4417								
			131.5833					1273	1155			
			101.1607									

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

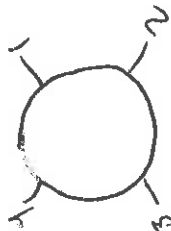
RUN NO. 2

TESTING TYPE: HCL

METHOD NO. 260A

Page 1 of 1

Client	<u>Big Rivers</u>			Bargetric (inHg)	<u>29.45</u>	Water (ml) [g]	
Plant	<u>Anderson</u>			Ambient Temp (°F)	<u>90</u>	Silica: gel (g)	
Location	<u>Outlet</u>			Static (inH ₂ O)	<u>-0.2</u>	Total Vlc	
Date	<u>7/27/11</u>	Project No.	<u>3048</u>	Probe ID	<u>AF-5-0-4</u>	Liner Type	<u>Glass</u>
Meter Operator	<u>JL</u>			Nozzle ID	<u>0.19</u>	Nozzle Dia (in)	<u>0.194</u>
Probe Operator	<u>JL</u>			Filter ID	<u>N/A</u>		
Meter ID	<u>M-28</u>	Yd	<u>0.9976</u>	Train ID	<u>10 #7</u>	Train Type	<u>imp</u>
ΔH@	<u>1.8295</u>	Kf	<u>1.19</u>	Duct Dim. (in)	<u>180</u>	Port Length (in)	<u>12 in</u>
Pre Leak Check	<u>0.002</u>	[cfm] [ppm] @	<u>15</u>	Start Time	<u>11:16</u>	Stop Time	<u>13:35</u>
Post Leak Check	<u>0.00</u>	[cfm] [ppm] @	<u>14</u>				



First point at the way (in) (out)

Gas flow: (in) (out) of page

Cross Section of Duct

Min/Point	Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔF (inH ₂ O)	Gas Sample Volume Initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impingers Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	2.4	2.9	735.41	131	240	200	55	101	100	12	N/A	
2	26	2.3	2.7	744.93	131	240	200	55	107	100	12		
3	30	1.8	2.1	743.58	131	258	200	56	107	100	10		
1	40	2.4	2.9	773.28	131	243	242	57	106	99	10		
2	50	2.3	2.7	782.58	131	241	259	58	108	100	11		
3	60	1.0	1.9	790.54	131	240	241	59	110	103	11		
1	70	2.5	3.0	799.91	130	243	245	60	110	103	12		
2	80	2.3	2.7	809.59	130	241	257	61	112	106	11		
3	90	1.0	1.9	818.97	130	257	240	61	113	106	9		
1	100	2.4	2.9	827.07	130	240	258	62	113	106	11		
2	110	2.3	2.7	830.25	130	241	259	62	115	107	10		
3	120	1.5	1.8	843.84	130	240	241	62	110	107	9		
Total		17.39	20.20	168.43	1500	2400	241	62	1318	1237			
Average		1.49	2.51	130.50					100.4583				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

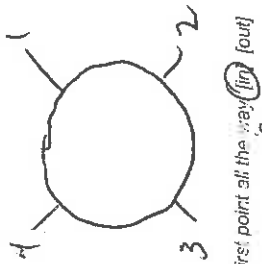
RUN NO. 3

TESTING TYPE: HCL

METHOD NO. 26A

Page 1 of 1

Client	Big Rivers			Barometric (inHg)	29.45	Water (ml) [g]	
Plant	Henderson			Ambient Temp (°F)	90	Silica-gel (g)	
Location	pufflet			Static (inHg, °)	-0.2	Total V/c	
Date	7/27/11	Project No.	3458	Probe ID	AE-5-6-4	Liner Type	61955
Meter Operator	SL			Nozzle ID	019	Nozzle Dia (in)	0.194
Probe Operator	SL			Filter ID	N/A		
Meter ID	M-28	Yd	099710	Train ID	25	Train Type	imp
AH@	1.8295	Kf	1.19	Duct Dim. (in)	180	Port Length (in)	12.4
Pre Leak Check	0.00	[cfm] [ppm] @	17	(inHg)			
Post Leak Check	0.00	[cfm] [ppm] @	13	(inHg)			



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

Cross Section of Duct

Start Time 14:08 Stop Time 16:25

Traverse Point	Mini/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔR (inH ₂ O)	Gas Sample Volume initial [ft ³] [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	2.4	2.8	853.38	129	205	200	44	108	104	10	N/A	
2	20	2.2	2.4	862.67	130	201	259	50	113	104	9		
3	30	1.9	2.3	871.24	130	259	203	50	117	106	8		
1	40	2.4	2.8	880.74	130	259	203	51	118	100	10		
2	50	2.2	2.4	890.03	130	202	201	52	119	108	9		
3	60	1.9	2.3	898.10	130	259	202	54	119	108	7		
1	70	2.3	2.7	908.07	130	203	200	55	120	109	9		
2	80	2.2	2.4	917.27	129	203	202	56	120	110	9		
3	90	1.9	2.3	926.02	130	259	201	57	120	110	7		
1	100	2.3	2.7	935.33	130	204	203	58	120	110	9		
2	110	2.2	2.4	944.55	130	202	201	59	120	111	9		
3	120	1.8	2.1	952.92	130	201	200	60	121	111	8		
Total		12.54	80.40	108.92	558				1415	1297			
Average		1.418	2.633	129.833									

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client	<u>Big Rivers - Green Station</u>		
Plant	<u>Robards, KY</u>		
Location	<u>Stack</u>		
Date	<u>7-26-11</u>	Run#	<u>1</u>
Operator			

Run No.	Method No.	Train ID	Filter No.	Notes	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	
1	26A		NA		
Impinger No. 1	<u>H₂SO₄</u>	<u>659.7</u>	<u>748.5</u>		
Impinger No. 2	<u>H₂SO₄</u>	<u>680.0</u>	<u>735.2</u>		
Impinger No. 3	<u>Empty</u>	<u>598.7</u>	<u>662.5</u>		
Impinger No. 4	<u>Silica</u>	<u>882.6</u>	<u>933.5</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

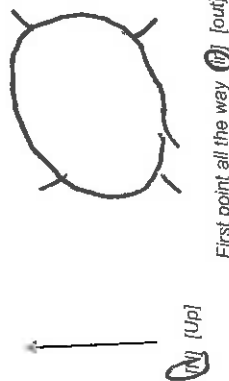
Run No.	Method No.	Train ID	Filter No.	Notes	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	
2	26A		NA		
Impinger No. 1	<u>H₂SO₄</u>	<u>665.7</u>	<u>897.1</u>		
Impinger No. 2	<u>H₂SO₄</u>	<u>691.2</u>	<u>769.1</u>		
Impinger No. 3	<u>Empty</u>	<u>463.1</u>	<u>524.5</u>		
Impinger No. 4	<u>Silica</u>	<u>915.2</u>	<u>989.5</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	Method No.	Train ID	Filter No.	Notes	
	Contents	Tare with Contents (g)	Final (g)	Total (g)	
3	26A		NA		
Impinger No. 1	<u>H₂SO₄</u>	<u>660.8</u>	<u>837.4</u>		
Impinger No. 2	<u>H₂SO₄</u>	<u>635.3</u>	<u>739.3</u>		
Impinger No. 3	<u>Empty</u>	<u>604.1</u>	<u>632.0</u>		
Impinger No. 4	<u>Silica</u>	<u>933.1</u>	<u>945.3</u>		
Impinger No. 5					
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

TESTING TYPE: Metals

RUN NO. 1 METHOD NO. 29 Start Time 7:53 Stop Time 10:15

Client Big R. Metals
 Plant Henderson-greer
 Location Outlet
 Date 7/27/11 Project No. 3648
 Meter Operator BK
 Probe Operator SL
 Meter ID M-20 Yd .4052 Pilot Cp .84
 ΔH@ 1.785 Kf .54 Leak: check
 Pre Leak Check .000 @ 15 (inHg)
 Post Leak Check .000 @ 3 (inHg)



Barometric (inHg)	<u>29.45</u>	Water (ml) (g)	
Ambient Temp (°F)	<u>90</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-.2</u>	Total Vic	
Probe ID	<u>AE-5.6-2</u>	Liner Type	<u>51055</u>
Nozzle ID	<u>.169</u>	Nozzle Dia (in)	<u>.160</u>
Filter ID	<u>N/A</u>	Train Type	<u>Leaf</u>
Train ID	<u>EB 14</u>	Port Length (in)	<u>12</u>
Duct Dim. (in)	<u>180</u>		

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (g) (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	2.3	1.2	886.50	130	250	250	59	91	89	6	N/A	
2	20	2.3	1.2	843.46	131	253	249	59	97	90	6		
3	30	2.0	1.0	899.34	131	253	248	58	102	91	6		
1	40	2.3	1.2	905.99	132	253	248	58	103	96	6		
2	50	2.3	1.2	711.30	132	253	248	55	105	94	6		
3	60	2.3	1.2	917.52	132	253	248	56	105	95	6		
1	70	2.5	1.3	923.70	132	252	248	57	106	96	6		
2	80	2.4	1.3	930.12	131	253	251	57	107	97	7		
3	90	2.1	1.1	936.56	130	264	249	55	102	97	7		
1	100	2.5	1.3	942.55	130	254	249	56	107	97	6		
2	110	2.3	1.2	948.71	130	252	248	58	107	98	7		
3	180	2.3	1.2	954.94	130	252	248	58	108	99	7		
Total		18.19	14.4	961.21	130	253	249	62	1245	1139			
Average		1.5170	1.2	74.71	1559					99.33			

Circle correct bracketed [] unit:
 Train Typ denotes impingers, knock-out, etc.

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

TESTING TYPE: Metals

Page 1 of 1

METHOD NO. 29

RUN NO. 2

Client: Big Rivers
 Plant: Henderson - Green
 Location: Outlet
 Date: 7/27/11 Project No. 3648
 Meter Operator: BK
 Probe Operator: SL
 Meter ID: M-20 Yd .9452 Pilot Cp 84
 ΔH@: 1.205 Kf .54 Leak check V
 Pre Leak Check: 000 [ppm] [ipm] @ 15 (inHg)
 Post Leak Check: [cfm] [lpm] @



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 Gas flow [in] [out] of page
 Cross Section of Duct

Barometric (mmHg)	<u>29.45</u>	Water (ml) [g]	
Ambient Temp (°F)	<u>90</u>	Silica gel (g)	
Statis (inHg)	<u>-.2</u>	Total Vlc	
Probe ID	<u>AE-5-6-2</u>	Liner Type	<u>61253</u>
Nozzle ID	<u>.160</u>	Nozzle Dia (in)	<u>r160</u>
Filter ID	<u>N/A</u>	Tram Type	<u>Fur</u>
Train ID	<u>IB New</u>	Port Length (in)	<u>12</u>
Duct Dim. (in)	<u>180</u>		
Start Time	<u>11:16</u>	Stop Time	<u>13:35</u>

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting A/A (inH ₂ O)	Gas Sample Volume Initial (l)	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	2.4	1.3	961.43	130	250	250	60	97	97	5	N/A	
2	20	2.3	1.2	962.92	130	251	249	58	103	97	5		
3	30	2.1	1.1	974.38	130	253	249	58	106	98	5		
1	40	3.4	1.8	980.44	130	256	251	61	102	98	7		
2	50	3.7	2.0	987.69	130	253	250	59	104	98	7		
3	60	2.3	1.2	995.34	130	248	253	57	105	98	5		
1	70	2.0	1.0	000.80	130	253	247	56	106	99	5		
2	80	2.4	1.3	000.92	130	253	252	54	108	99	5		
3	90	2.3	1.3	013.42	130	253	248	55	110	100	5		
1	100	2.1	1.1	014.90	129	252	247	58	110	100	5		
2	110	2.3	1.2	026.00	129	254	252	60	111	102	5		
3	120	2.3	1.2	032.27	128	254	249	61	111	102	5		
Total		18.76	1.57	938.49	128	254	249	61	1273	1188			
Average		1.5634	1.3	92.40	1534				102.54				

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

AIRTECH ENVIRONMENTAL SERVICES INC.

General Testing Data Sheet

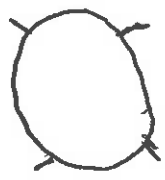
TESTING TYPE: Metals

METHOD NO. 29

Page 1 of 1

RUN NO. 3

Client	<u>Big Rivers</u>		
Plant	<u>Henderson - Green</u>		
Location	<u>Outlet</u>		
Date	<u>7/27/11</u>	Project No.	<u>3648</u>
Meter Operator	<u>BK.</u>		
Probe Operator	<u>JK</u>		
Meter ID	<u>M-20</u>	Pitot Cp	<u>.84</u>
ΔH@	<u>1.785</u>	Leak check	<input checked="" type="checkbox"/>
Pre Leak Check	<u>.000</u>	(fpm) [ppm] @	<u>15</u> (in-Hg)
Post Leak Check	<u>.000</u>	(fpm) [ppm] @	<u>8</u> (in-Hg)



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Gas flow (in) (out) of page

Barometric (inHg)	<u>29.45</u>	Water [ml] [g]	
Ambient Temp (°F)	<u>99</u>	Silica gel (g)	
Static (inH ₂ O)	<u>-.2</u>	Total Vic	
Probe ID	<u>AF-5.6-2</u>	Liner Type	<u>Glass</u>
Nozzle ID	<u>.180</u>	Nozzle Dia (in)	<u>.180</u>
Filter ID	<u>N/A</u>	Train Type	<u>Imp</u>
Train ID	<u>FB/AN</u>	Port Length (in)	<u>12</u>
Duct Dim. (in)	<u>1.80</u>		
Start Time	<u>19:08</u>	Stop Time	<u>16:20</u>

Traverse Point	Min/Point Elapsed Time	Velocity Pressure ΔP (inH ₂ O)	Orifice Setting ΔH (inH ₂ O)	Gas Sample Volume Initial (ft ³) [l]	Stack Temp (°F)	Probe Temp (°F)	Filter Temp (°F)	Impinger Outlet Temp (°F)	DGM Inlet Temp (°F)	DGM Outlet Temp (°F)	Pump Vacuum (inHg)	Auxiliary Temp (°F)	Notes
1	10	2.3	1.2	038.70	128	250	250	63	106	102	5	N/A	
2	20	2.3	1.2	051.23	129	256	255	61	106	102	5		
3	30	2.0	1.0	057.32	129	253	252	59	110	102	5		
1	40	2.4	1.3	063.80	129	252	251	59	111	103	5		
2	50	2.3	1.2	070.34	129	252	249	58	112	104	5		
3	60	2.0	1.0	076.67	129	253	249	58	112	104	5		
1	70	2.4	1.3	083.22	129	253	250	56	113	105	5		
2	80	2.2	1.2	089.51	129	254	252	57	113	105	5		
3	90	1.9	1.0	095.38	129	253	249	58	113	105	5		
1	100	2.3	1.2	101.72	129	252	250	58	113	105	6		
2	110	2.3	1.2	108.03	129	253	251	60	113	105	6		
3	120	1.9	1.0	113.91	129	253	251	62	114	106	6		
Total		<u>17.75</u>	<u>13.9</u>	<u>75.21</u>	<u>1347</u>				<u>1336</u>	<u>1248</u>			
Average		<u>1.4790</u>	<u>1.1583</u>		<u>128.9</u>					<u>107.66</u>			

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

AIRTECH ENVIRONMENTAL SERVICES INC.
Impinger Weights Data Sheet

PROJECT NO. 3648

Page 1 of 1

Client:	Big River Energy - Green Station		
Plant:	Rehoboth, KY		
Location:	Common Stock		
Date:	7-26-11	Unit:	1
Operator:	ML		

Run No.	1	Train ID	Filter No.	NA	
Method No.	29	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	618.9	748.1 795.1		
Impinger No. 2	5% / 10%	730.6	735.2 782.2		
Impinger No. 3	5% / 10%	749.9	682.5 761.0		
Impinger No. 4	Empty	590.3	592.6		
Impinger No. 5	Silica	912.8	930.9		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	2	Train ID	Filter No.	NA	
Method No.	29	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	632.9	705.0		
Impinger No. 2	5% / 10%	689.2	703.6		
Impinger No. 3	5% / 10%	661.7	693.8		
Impinger No. 4	Empty	631.0	639.8		
Impinger No. 5	Silica	902.8	919.5		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

Run No.	3	Train ID	Filter No.	NA	
Method No.	29	Tare with Contents (g)	Final (g)	Total (g)	Notes
Impinger No. 1	Empty	623.3	790.7		
Impinger No. 2	5% / 10%	735.1	786.5		
Impinger No. 3	5% / 10%	755.6	763.5		
Impinger No. 4	Empty	595.3	599.5		
Impinger No. 5	Silica	929.0	929.0 946.3		
Impinger No. 6					
Impinger No. 7					
Additional Rinse					
			Net Weight (g)		

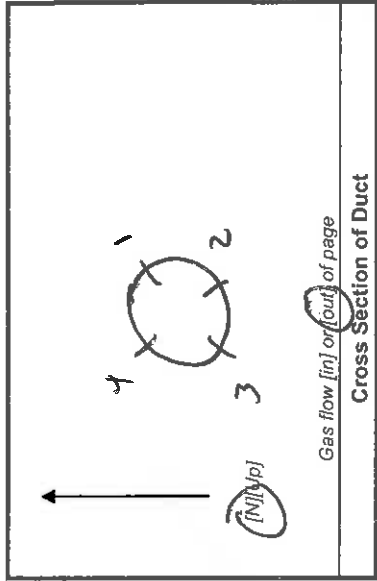
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-1

Page 1 of 2

Client	Bigs Rivers
Plant	Garden
Location	Stack
Date	7/27/11
Project No.	3648
Meter Reader	R6



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-12
Ambient Temp. (°F)	90
Start Time	7:53
Stop Time	10:15

Sample Train A 99439

Trap ID	9949	Meter ID	M-25	Yd	9994
Pre Leak Check	1000	lpm @		22	(in. Hg)
Post Leak Check	1000	lpm @	12		(in. Hg)

Sample Train B Spiked

Trap ID	88262	Meter ID	M-25	Yd	10017
Pre Leak Check	1000	lpm @		22	(in. Hg)
Post Leak Check	1000	lpm @	15		(in. Hg)

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	7514M	4.326	130	86	6	
10		7.148	130	86	3	
15		9.286	131	89	3	
20		11.293	131	93	3	
25		13.456	132	96	3	
30		16.124	131	100	3	
35		19.011	133	101	5	
40		21.988	131	104	5	
45		24.895	133	106	5	
50		26.598	131	108	5	
55		28.247	132	110	2	
60		29.723	131	110	3	
Total			1576	1189		
Average		40.504	131.4	103.9		

Min/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	7514M	4.067	130	86	3	
10		6.539	130	86	2	
15		9.248	131	90	2	
20		11.387	131	94	2	11.387
25		13.641	132	97	2	
30		15.863	131	101	2	
35		18.692	133	104	2	
40		22.167	131	105	3	
45		24.983	133	107	2	
50		26.437	131	109	2	
55		27.459	132	111	2	
60		29.214	131	113	2	
Total			1576	1203		
Average		40.428	131.4	105.2		

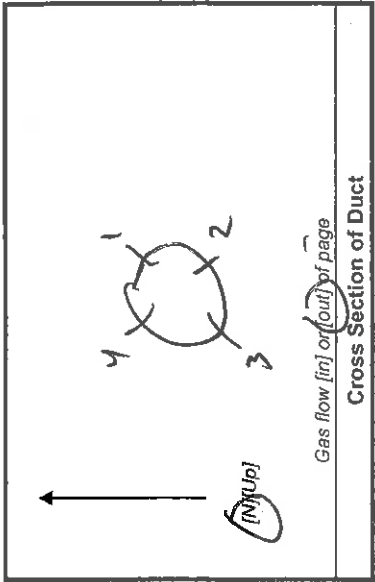
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2-1

Page 2 of 2

Client	Big Rivers
Plant	Green
Location	Stack
Date	7/27/11
Project No.	3648
Meter Reader	RG



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-2
Ambient Temp. (°F)	90
Start Time	7:53
Stop Time	

Sample Train A

Trap ID	99439	Meter ID	M25	Yd	9994
Pre Leak Check	1000	lpm @	22	(in. Hg)	
Post Leak Check	1000	lpm @	22	(in. Hg)	

Sample Train B *Spiked*

Trap ID	88262	Meter ID	M-25	Yd	1,0017
Pre Leak Check	1000	lpm @	22	(in. Hg)	
Post Leak Check	1000	lpm @	22	(in. Hg)	

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	75 LPM	31.144	132	113	2	
70		32.647	131	112	2	
75		34.673	132	113	2	
80		36.994	132	114	4	
85		39.106	132	114	4	
90		40.504	131	115	2	
Total			790	681		
Average						

Mini/Point	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5						
Elapsed Time						
65	75 LPM	31.434	132	114	2	
70		32.490	131	114	2	
75		34.549	132	115	2	
80		36.910	132	115	2	
85		38.80	132	116	2	38.810
90		40.428	131	116	2	
Total			790	690		
Average						

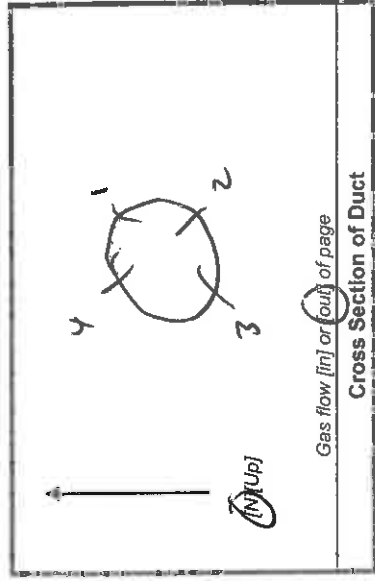
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. R-2

Page 1 of 2

Client	Big Rivers
Plant	Green
Location	Stalk
Date	7/27/11
Project No.	3648
Meter Reader	RLG



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-0.2
Ambient Temp. (°F)	90
Start Time	11:16
Stop Time	13:35

Sample Train A

Sample Train B *Spiked*

Trap ID	94397	Meter ID	M-25	Yd	19994
Pre Leak Check	0.00	ipm @	23	(in. Hg)	
Post Leak Check	0.00	ipm @	18	(in. Hg)	

Trap ID	72079	Meter ID	M-25	Yd	1.0017
Pre Leak Check	0.00	ipm @	23	(in. Hg)	
Post Leak Check	0.00	ipm @	18	(in. Hg)	

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	75 LPM	2.973	131	95	5	
10		5.465	130	95	4	
15		7.541	129	95	4	
20		9.107	130	104	3	12.9.151
25		10.761	129	103	3	
30		13.021	128	104	3	
35		15.192	129	104	3	
40		17.701	128	106	3	
45		20.512	130	108	3	
50		23.241	129	110	4	
55		26.132	130	111	5	
60		29.064	130	113	5	
Total		1553	1553	1243		
Average		41.854	129.6	108.3		

Min/Point Elapsed Time	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	75 LPM	1.387	131	94	2	
10		3.669	130	95	3	
15		7.367	129	95	3	
20		9.684	130	101	3	
25		10.563	129	102	3	
30		11.760	128	104	3	
35		14.441	129	105	2	
40		17.381	128	108	3	
45		21.426	130	110	3	
50		23.192	129	112	3	
55		25.882	130	113	3	
60		28.829	130	115	3	
Total		421.76	1553	1254		
Average		129.6	129.6	107.6		

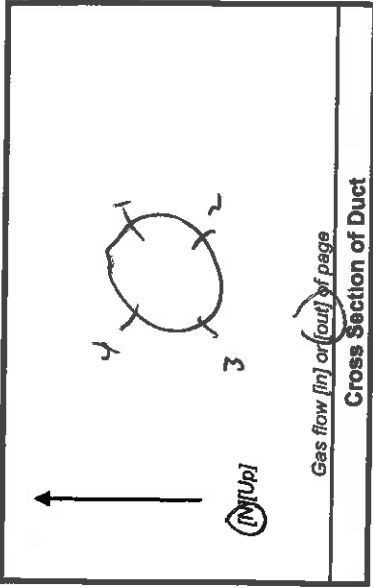
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 2

Page 2 of 2

Client	Big Rivers
Plant	Greer
Location	Stack
Date	7/27/11
Project No.	3648
Meter Reader	RG



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-1.2
Ambient Temp. (°F)	90
Start Time	11:16
Stop Time	

Sample Train A

Trap ID	94397	Meter ID	M-25	Yd	994
Pre Leak Check	000	ipm @	23	(in. Hg)	
Post Leak Check	900	ipm @	18	(in. Hg)	

Sample Train B Spiked

Trap ID	72079	Meter ID	M-25	Yd	1.0017
Pre Leak Check	000	ipm @	23	(in. Hg)	
Post Leak Check	000	ipm @	18	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	75.1M	31984	131	114	5		
70		35072	130	116	5		
75		38084	130	117	5		
80		40166	129	119	5		
85		40931	130	120	5		
90		41884	129	121	5		
Total			779	707			
Average							

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	98.2M	32.125	131	116	3		
70		35468	120	118	3		
75		38795	130	119	3		
80		39709	129	119	3		
85		41.003	130	122	3		
90		42.176	129	123	3		
Total			779	718			
Average							

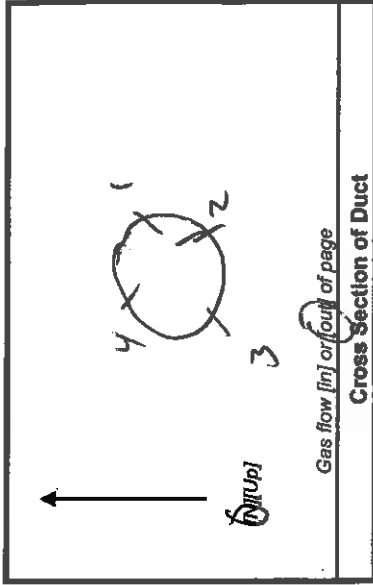
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 1 of 2

Client	Big Rivers
Plant	Green
Location	Stack
Date	7/27/11
Project No.	3648
Meter Reader	RLG



Barometric (in. Hg)	29.45
Static (inH ₂ O)	-2
Ambient Temp. (°F)	90
Start Time	14:08
Stop Time	15:41

Sample Train A

Trap ID	94448	Meter ID	M25	Yd	9994
Pre Leak Check	.000	lpm @	Z3	(in. Hg)	
Post Leak Check	.000	lpm @	18	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.75LPM	2.518	131	102	3	
10		4.942	130	101	4	
15		7.134	131	102	4	
20		9.887	129	104	5	
25		12.609	131	108	5	
30		15.441	131	111	5	
35		18.575	131	114	5	
40		21.498	130	117	6	
45		24.639	131	118	6	
50		27.635	130	121	6	
55		30.516	131	122	6	
60		32.786	131	123	6	
Total			1567	1343		
Average		41.656	130.6	109.9		

117.00

Sample Train B *Spiked*

Trap ID	72071	Meter ID	M-25	Yd	1007
Pre Leak Check	.000	lpm @	Z3	(in. Hg)	
Post Leak Check	.000	lpm @	18	(in. Hg)	

Min/Point	Flow Meter Setting	Gas Sample Initial (l)	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
5	.75LPM	2.273	131	102	2	
10		4.396	130	102	2	
15		7.319	131	103	2	
20		9.713	129	106	2	
25		13.139	131	110	2	
30		16.046	131	113	2	
35		17.864	131	116	2	
40		19.876	130	120	2	
45		23.457	131	121	3	
50		27.242	130	123	3	
55		30.989	131	124	3	
60		32.109	131	125	3	
Total			1567	1265		
Average		41.779	130.6	118.8		

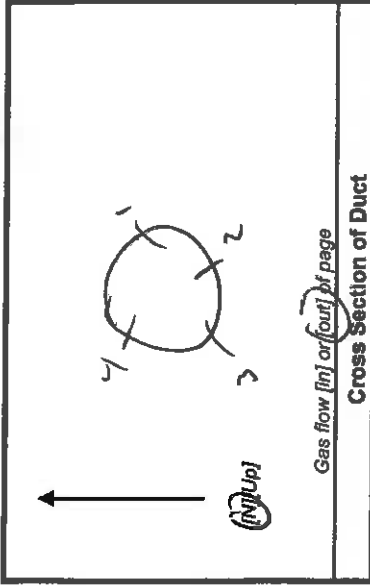
AIRTECH ENVIRONMENTAL SERVICES INC.

Method 30B Data Sheet

Run No. 3

Page 2 of 2

Client	Big Rivers
Plant	Green
Location	Stack
Date	7/27/11
Project No.	3648
Meter Reader	RB



Barometric (in. Hg)	29.15
Static (inH ₂ O)	-1.2
Ambient Temp. (°F)	90
Start Time	14:08
Stop Time	15:41

Sample Train A

Trap ID	94448	Meter ID	M-25	Yd	9994
Pre Leak Check	1000	lpm @	23	(in. Hg)	
Post Leak Check	1000	lpm @	18	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	35.21M	34.502	131	125	6		
70		35.389	131	126	6		
75		37.169	130	127	6		
80		38.791	131	127	6		
85		40.143	130	128	6		
90		41.656	131	129	6		
Total			784	635			
Average							

Sample Train B Spiked

Trap ID	72071	Meter ID	M-25	Yd	10017
Pre Leak Check	1000	lpm @	23	(in. Hg)	
Post Leak Check	1000	lpm @	18	(in. Hg)	

Min/Point	Elapsed Time	Flow Meter Setting	Gas Sample Initial [l]	Stack Temp (°F)	DGM Temp (°F)	Pump Vacuum (in Hg)	Notes
65	35.67M	32.333	131	127	3		
70		32.492	131	128	3		
75		35.826	130	129	3		
80		38.927	131	129	3		
85		41.110	130	130	6		
90		41.779	131	130	6		
Total			784	773			
Average							

AIRTECH ENVIRONMENTAL SERVICES INC.
Oxygen and Carbon Dioxide Data Sheet

PROJECT NO. 3648

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

Client	Big Rivers		
Plant	Green Unit 1		
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
1	1				1.14	7/27/2011	7:53	10:15
	2							
	3							
	Average	9.6	11.1	8.17				
2	1				1.15	7/27/2011	11:16	13:35
	2							
	3							
	Average	9.5	11.0	8.31				
3	1				1.14	7/27/2011	14:07	16:20
	2							
	3							
	Average	9.6	11.1	8.25				
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							
	1							
	2							
	3							
	Average							