APPENDIX H.2
MERCURY AND PARTICULATE MATTER TESTS
(ONTARIO HYDRO METHOD)

- **Sampling Data Reduction Worksheets**
- **Field Sampling Data Sheets**

GREENIDGE ONTARIO HYDRO SAMPLING TRAIN DATA

Location			Stack	Stack	Stack	Avg
Date			11/17/04	11/17/04	11/18/04	
Start Time			850	1451	1438	
Stop Time			1208	1741	1727	
Test Number			1	2	3	
Sample Type			OH-Hg	OH-Hg	OH-Hg	
Y factor of dry gas meter	-		0.984	0.984	0.984	0.984
Gas Volume	-	ft^3	87.82	86.68	87.44	87.31
Delta H of dry gas meter	-	" H_20	1.63	1.59	1.62	1.61
Meter Temperature	-	°F	69.8	74.3	75.0	73.0
C Factor of pitot tube	-		0.835	0.835	0.835	0.835
Nozzle Diameter	-	inches	0.249	0.249	0.249	0.249
A n (area of nozzle)	-	ft^2	0.00034	0.00034	0.00034	0.00034
Area of Stack (Single of Dual)	-	ft^2	132.7	132.7	132.7	132.7
H_2O Weight	-	gm	129.2	127.8	127.8	128.3
Sample Time	-	minutes	128	128	128	128
Barometric Pressure	-	" Hg	29.60	29.56	29.40	29.52
Static Pressure	-	" H_20	-0.98	-0.93	-0.91	-0.94
% Oxygen	-		6.3	6.4	6.7	6.5
% Carbon Dioxide	-		13.8	13.7	13.5	13.7
% N_2 + CO	-		79.9	79.9	79.8	79.9
Stack Temp (Dry Bulb)	-	°F	310	308	309	309
Stack Temp (Wet Bulb)	-	°F	309.9	307.5	309.3	308.9
"S" sample (rms vel head)	-	" H_20	0.579	0.576	0.589	0.581
Dust Wt.	-	gm	0.0809	0.0978	0.0360	0.0716
Sample Volume	-	DSCF	85.51	83.57	83.74	84.27
Sample Volume	-	dscm	2.422	2.367	2.372	2.387
ABS ST PRES	-	" Hg	29.53	29.49	29.33	29.45
ABS ST TEMP	-	°R	770	768	769	769
H_2O - % by Vol	-	vapor	6.6	6.7	6.7	6.7
Water Volume	-	std ft^3	6.09	6.02	6.02	6.04
Dry Molecular Weight	-	lb/lb-mole	30.46	30.45	30.43	30.45
Wet Molecular Weight	-	lb/lb-mole	29.63	29.61	29.59	29.61
% EXCESS AIR	-		42.6	43.6	46.6	44.3
Dry Mole Frac.	-		0.934	0.933	0.933	0.933
Wet Mole Frac.	-		0.066	0.067	0.067	0.067
Gas Velocity, Direct	-	ft/sec	50.95	50.79	51.57	51.10
ACFM	-		405776	404482	410723	406994
DSCFM	-		256390	255850	257833	256691
DSCFM (rounded)			256400	255800	257800	256666.667
DSCMM			7261	7246	7302	7269
Excess Air Free DSCFM	-		179105	177503	175178	177262
CALCULATED FIRING RATE:						
Dry	-	lb/min	1333	#DIV/0!	#DIV/0!	#DIV/0!
Wet	-	lb/min	1355	#DIV/0!	#DIV/0!	#DIV/0!
Dry	-	lb/hr	80000	#DIV/0!	#DIV/0!	#DIV/0!
Wet	-	lb/hr	81309	#DIV/0!	#DIV/0!	#DIV/0!
CALCULATED FIRING RATE:						
Dry	-	tons/hr	40.0	#DIV/0!	#DIV/0!	#DIV/0!
Wet	-	tons/hr	40.7	#DIV/0!	#DIV/0!	#DIV/0!
HEAT INPUT:						
MM Btu/hr	-		1105	#DIV/0!	#DIV/0!	#DIV/0!
PARTICULATE LOADING:						
Grains/DSCF	-		0.0146	0.0181	0.0066	0.0131
lb/hr	-		32.09	39.61	14.66	28.79
lb/MM Btu	-		0.03	#DIV/0!	#DIV/0!	#DIV/0!
Ash Production		lb/hr	6744	#DIV/0!	#DIV/0!	#DIV/0!
Bagouse Ash			32	39.61	14.66	28.79
Bottom Ash			6712	#DIV/0!	#DIV/0!	#DIV/0!
Percent Fly Ash			0.5%	#DIV/0!	#DIV/0!	#DIV/0!
% ISOKINETIC	-		102.4	100.3	99.7	100.8

GREENIDGE ONTARIO HYDRO SAMPLING TRAIN DATA

Impinger Components Wts & Volumes				
Filter Wt., g	0.0809	0.0978	0.0360	
ppm Hg (thimbles) or ng/filter (filters)	15.8	82.2	<5.0	
total ug	0.02	8.22E-02	<5.00E-03	
ug/dscm	0.01	3.47E-02	<2.11E-03	
Probe Rinse volume, ml	134	117	137	
Analytical Hg, ng/ml	1.1	<1.00	<1.0	
ug/dscm	0.06	<0.05	<0.06	
KCl volume, ml	564	567	569	
Analytical Hg, ng/ml	42.6	26.0	28.3	
ug/dscm	9.92	<6.23	6.79	
Nitric/Peroxide volume, ml	179	178	177	
Analytical Hg, ng/ml	1.9	2.3	2.7	
ug/dscm	0.14	0.17	0.20	
KMnO4 volume, ml	246	245	245	
Analytical Hg, ng/ml	4.7	6.9	14.3	
ug/dscm	0.48	0.71	1.48	
KMnO4-Acid Rinse volume, ml	100	100	100	
Analytical Hg, ng/ml	1.5	1.3	<1.0	
ug/dscm	0.06	0.05	<0.04	
Particulate Hg	0.007	0.035	0.002	0.014
Percent of Total	0.1	0.5	0.0	0.19
Oxidized Hg	9.98	6.28	6.85	7.70
Percent of Total	93.6	86.5	79.9	86.7
Elemental Hg	0.68	0.94	1.72	1.11
Percent of Total	6.4	13.0	20.1	13.1
Total ug/m^3	10.67	7.26	8.57	8.83
Corrected to 0% O2				
Particulate	0.01	0.050	0.003	0.021
Oxidized Fraction	14.29	9.05	10.08	11.14
Elemental Fraction	0.97	1.36	2.53	1.62
Total ug/m^3	15.27	10.46	12.61	12.78
lb/hr	0.01023762	0.00694756	0.00827054	0.0085

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

GUARANTEE TESTING - NO CARBON INJECTION

Location		AHO	Stack	AHO	Stack	AHO	Stack
Date		3/28/07	3/28/07	3/28/07	3/28/07	3/28/07	3/28/07
Start Time		905	910	1245	1243	1558	1600
Stop Time		1132	1133	1502	1507	1817	1814
Test Number		1	1	2	2	3	3
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	0.970	1.046	0.970	1.046	0.970	1.046
Gas Volume	- ft^3	50.95	82.93	52.21	82.90	51.67	80.15
Delta H of dry gas meter	- " H_2O	0.59	1.68	0.64	1.68	0.61	1.55
Meter Temperature	- °F	50.3	46.6	52.1	48.2	53.9	51.6
C Factor of pitot tube	-	0.840	0.835	0.840	0.835	0.840	0.835
Nozzle Diameter	- inches	0.184	0.248	0.184	0.248	0.184	0.248
A n (area of nozzle)	- ft^2	0.00018	0.00034	0.00018	0.00034	0.00018	0.00034
Area of Stack	- ft^2	114.0	132.7	114.0	132.7	114.0	132.7
H_2O Weight	- gm	65.7	230.5	69.0	197.5	76.7	218.5
Sample Time	- minutes	126	120	126	120	126	120
Barometric Pressure	- " Hg	29.83	29.83	29.85	29.85	29.85	29.85
Static Pressure	- " H_2O	-12.94	-0.56	-13.09	-0.60	-12.93	-0.58
% Oxygen (see note)	-	6.9	8.0	7.0	8.2	7.0	8.3
% CO2 (see note)	-	12.2	11.2	12.2	11.1	12.2	11.1
% N_2 + CO (calculated)	-	80.9	80.7	80.8	80.7	80.8	80.6
Stack Temp (Dry Bulb)	- °F	293	175	300	176	298	174
Stack Temp (Wet Bulb)	- °F						
"S" sample (rms vel head)	- " H_2O	0.719	0.568	0.792	0.578	0.751	0.565
Dust Wt.	- gm	8.3021	0.0003	7.5722	0.0000	8.0255	0.0000
Sample Volume	- DSCF	51.04	90.47	52.15	90.22	51.43	86.62
Sample Volume	- dscm	1.445	2.562	1.477	2.555	1.457	2.453
ABS ST PRES	- " Hg	28.88	29.79	28.89	29.81	28.90	29.81
ABS ST TEMP	- °R	753	635	760	636	758	634
H_2O - % by Vol	- vapor	5.7	10.7	5.9	9.3	6.6	10.6
Water Volume	- std ft^3	3.09	10.86	3.25	9.30	3.61	10.29
Dry Molecular Weight	- lb/lb-mole	30.23	30.12	30.23	30.10	30.23	30.11
Wet Molecular Weight	- lb/lb-mole	29.53	28.82	29.51	28.97	29.43	28.82
% EXCESS AIR	-	47.7	60.4	48.8	62.9	49.2	63.5
Dry Mole Frac.	-	0.943	0.893	0.941	0.907	0.934	0.894
Wet Mole Frac.	-	0.057	0.107	0.059	0.093	0.066	0.106
Gas Velocity, Direct	- ft/sec	57.23	46.27	60.33	46.58	58.73	46.11
ACFM	-	391422	368457	412634	370971	401739	367220
DSCFM	-	249699	272388	260682	278034	252720	272147
DSCFM (rounded)		249700	272400	260700	278000	252700	272100
DSCMM		7071	7714	7383	7874	7157	7707
Excess Air Free DSCFM	-	167263	167788	173372	168642	167714	164457
CALCULATED FIRING RATE:							
Dry	- lb/min	1248	1252	1306	1271	1264	1239
Wet	- lb/min	1336	1340	1394	1356	1352	1326
Dry	- lb/hr	74858	75093	78382	76243	75838	74365
Wet	- lb/hr	80165	80417	83634	81352	81145	79569
CALCULATED FIRING RATE:							
Dry	- tons/hr	37.4	37.5	39.2	38.1	37.9	37.2
Wet	- tons/hr	40.1	40.2	41.8	40.7	40.6	39.8
HEAT INPUT:							
MM Btu/hr	-	1031	1034	1082	1052	1055	1035
PARTICULATE LOADING:							
Grains/DSCF	-	2.5100	0.0001	2.2402	0.0000	2.4078	0.0000
lb/hr	-	5374	0.12	5008	0.00	5217	0.00
lb/MM Btu	-	5.2143	0.0001	4.6300	0.0000	4.9434	0.0000
% ISOKINETIC	-	100.3	109.6	98.1	107.1	99.8	105.1

NOTE: The %O_2 at the air heater outlet was measured by CONSOL using a Teledyne Max 5 portable electrochemical O_2 analyzer, and the % CO_2 at the air heater outlet was calculated from the measured O_2 and coal composition. The %CO_2 at the stack was measured by the plant's stack CEM, and the %O_2 at the stack was calculated from the measured CO_2 and coal composition.

Impinger Components Wts & Volumes	AHO - 1	Stack - 1	AHO - 2	Stack - 2	AHO - 3	Stack - 3
Filter Wt., g	8.3021	0.0003	7.5722	0.0000	8.0255	0.0000
ppm Hg (thimbles) or ug/filter (filters)	0.72	<0.01	0.56	<0.01	0.69	<0.01
total ug	6.01	<0.01	4.26	<0.01	5.52	<0.01
ug/dscm	4.16	<0.00	2.89	<0.00	3.79	<0.00
Probe Rinse volume, ml	150	80	117	136	118	110
Analytical Hg, ng/ml	1.15	<1.40	1.59	<1.40	<1.40	<1.40
ug/dscm	0.12	<0.04	0.13	<0.07	<0.11	<0.06
Line Rinse volume, ml	160	62	117	60	73	125
Analytical Hg, ng/ml	2.21	<1.40	6.78	<1.40	3.66	<1.40
ug/dscm	0.24	<0.03	0.54	<0.03	0.18	<0.07
KCl volume, ml	616	676	567	522	634	523
Analytical Hg, ng/ml	5.97	<0.28	10.65	<0.28	7.85	<0.28
ug/dscm	2.54	<0.07	4.09	<0.06	3.42	<0.06
Nitric/Peroxide volume, ml	125	181	178	173	181	175
Analytical Hg, ng/ml	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	<0.12	<0.10	<0.17	<0.09	<0.17	<0.10
KMnO4 volume, ml	200	244	245	248	242	244
Analytical Hg, ng/ml	1.99	<0.28	<0.28	<0.28	1.16	<0.28
ug/dscm	0.28	<0.03	<0.05	<0.03	0.19	<0.03
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100
Analytical Hg, ng/ml	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	<0.10	<0.05	<0.09	<0.05	<0.10	<0.06
Particulate Hg (ug/dscm)	4.16	<0.00	2.89	<0.00	3.79	<0.00
Oxidized Hg (ug/dscm)	2.91	<0.15	4.75	<0.16	3.71	<0.19
Elemental Hg (ug/dscm)	0.49	<0.18	<0.31	<0.18	0.46	<0.18
Total Hg (ug/dscm)	7.56	<0.33	7.95	<0.34	7.97	<0.38
Particulate Hg (ug/dscm @ 3% O2)	5.32	<0.00	3.72	<0.00	4.89	<0.00
Oxidized Hg (ug/dscm @ 3% O2)	3.72	<0.21	6.12	<0.23	4.79	<0.27
Elemental Hg (ug/dscm @ 3% O2)	0.63	<0.25	0.40	<0.25	0.60	<0.26
Total Hg (ug/dscm @ 3% O2)	9.67	<0.46	10.23	<0.49	10.28	<0.54

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

GUARANTEE TESTING - WITH CARBON INJECTION

Location		AHO	Stack	AHO	Stack	AHO	Stack
Date		3/30/07	3/30/07	3/30/07	3/30/07	3/30/07	3/30/07
Start Time		855	855	1243	1243	1552	1552
Stop Time		1110	1110	1502	1454	1805	1803
Test Number		4	4	5	5	6	6
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	0.970	1.046	0.970	1.046	0.970	1.046
Gas Volume	- ft^3	50.26	78.34	52.46	81.05	51.54	80.07
Delta H of dry gas meter	- " H_20	0.60	1.46	0.62	1.55	0.60	1.52
Meter Temperature	- °F	46.5	50.8	58.5	63.8	60.4	65.5
C Factor of pitot tube	-	0.840	0.835	0.840	0.835	0.840	0.835
Nozzle Diameter	- inches	0.184	0.248	0.184	0.248	0.184	0.248
A n (area of nozzle)	- ft^2	0.00018	0.00034	0.00018	0.00034	0.00018	0.00034
Area of Stack	- ft^2	114.0	132.7	114.0	132.7	114.0	132.7
H_2O Weight	- gm	82.9	226.7	90.3	232.1	97.2	230.1
Sample Time	- minutes	126	120	126	120	126	120
Barometric Pressure	- " Hg	29.80	29.80	29.77	29.77	29.71	29.71
Static Pressure	- " H_20	-13.18	-0.49	-13.25	-0.53	-12.84	-0.55
% Oxygen (see note)	-	7.1	8.6	7.2	8.7	6.9	8.3
% CO2 (see note)	-	12.1	10.8	12.1	10.8	12.3	11.1
% N_2 + CO (calculated)	-	80.8	80.6	80.7	80.6	80.8	80.6
Stack Temp (Dry Bulb)	- °F	295	174	296	175	298	174
Stack Temp (Wet Bulb)	- °F						
"S" sample (rms vel head)	- " H_20	0.742	0.562	0.774	0.597	0.750	0.581
Dust Wt.	- gm	8.1636	0.0010	8.1806	0.0000	7.3852	0.0024
Sample Volume	- DSCF	50.67	84.63	51.62	85.32	50.42	83.84
Sample Volume	- dscm	1.435	2.397	1.462	2.416	1.428	2.374
ABS ST PRES	- " Hg	28.83	29.76	28.80	29.73	28.77	29.67
ABS ST TEMP	- °R	755	634	756	635	758	634
H_2O - % by Vol	- vapor	7.2	11.2	7.6	11.4	8.3	11.4
Water Volume	- std ft^3	3.90	10.68	4.25	10.93	4.58	10.84
Dry Molecular Weight	- lb/lb-mole	30.22	30.07	30.22	30.07	30.24	30.11
Wet Molecular Weight	- lb/lb-mole	29.35	28.72	29.29	28.70	29.22	28.72
% EXCESS AIR	-	49.9	68.2	51.0	68.9	48.0	63.4
Dry Mole Frac.	-	0.928	0.888	0.924	0.886	0.917	0.886
Wet Mole Frac.	-	0.072	0.112	0.076	0.114	0.083	0.114
Gas Velocity, Direct	- ft/sec	58.45	46.10	59.82	47.58	59.07	46.95
ACFM	-	399774	367163	409187	378900	404014	373882
DSCFM	-	249994	269932	254038	277555	247949	273251
DSCFM (rounded)		250000	269900	254000	277600	247900	273300
DSCMM		7080	7644	7194	7860	7022	7738
Excess Air Free DSCFM	-	165068	158498	166523	162325	165853	165284
CALCULATED FIRING RATE:							
Dry	- lb/min	1242	1192	1250	1219	1243	1239
Wet	- lb/min	1330	1278	1316	1282	1307	1302
Dry	- lb/hr	74513	71547	75015	73124	74577	74321
Wet	- lb/hr	79830	76652	78938	76949	78395	78126
CALCULATED FIRING RATE:							
Dry	- tons/hr	37.3	35.8	37.5	36.6	37.3	37.2
Wet	- tons/hr	39.9	38.3	39.5	38.5	39.2	39.1
HEAT INPUT:							
MM Btu/hr	-	1044	1003	1047	1021	1040	1037
PARTICULATE LOADING:							
Grains/DSCF	-	2.4858	0.0002	2.4454	0.0000	2.2600	0.0004
lb/hr	-	5329	0.42	5326	0.00	4804	1.04
lb/MM Btu	-	5.1027	0.0004	5.0873	0.0000	4.6182	0.0010
% ISOKINETIC	-	99.4	103.5	99.7	101.5	99.7	101.3

NOTE: The %O_2 at the air heater outlet was measured by CONSOL using a Teledyne Max 5 portable electrochemical O_2 analyzer, and the % CO_2 at the air heater outlet was calculated from the measured O_2 and coal composition. The %CO_2 at the stack was measured by the plant's stack CEM, and the %O_2 at the stack was calculated from the measured CO_2 and coal composition.

Impinger Components Wts & Volumes	AHO - 4	Stack - 4	AHO - 5	Stack - 5	AHO - 6	Stack - 6
Filter Wt., g	8.1636	0.0010	8.1806	0.0000	7.3852	0.0024
ppm Hg (thimbles) or ug/filter (filters)	0.60	<0.01	0.66	<0.01	0.62	<0.01
total ug	4.88	<0.01	5.41	<0.01	4.60	<0.01
ug/dscm	3.40	<0.00	3.70	<0.00	3.22	<0.00
Probe Rinse volume, ml	128	140	157	138	81	117
Analytical Hg, ng/ml	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	<0.12	<0.08	<0.15	<0.08	<0.08	<0.07
Line Rinse volume, ml	150	81	128	79	140	129
Analytical Hg, ng/ml	3.12	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	0.33	<0.05	<0.12	<0.05	<0.14	<0.08
KCl volume, ml	522	649	530	664	531	658
Analytical Hg, ng/ml	8.86	<0.28	8.45	<0.28	8.04	<0.28
ug/dscm	3.22	<0.08	3.06	<0.08	2.99	<0.08
Nitric/Peroxide volume, ml	176	184	175	175	175	181
Analytical Hg, ng/ml	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	<0.17	<0.11	<0.17	<0.10	<0.17	<0.11
KMnO4 volume, ml	250	254	250	250	256	250
Analytical Hg, ng/ml	<0.28	<0.28	0.40	0.37	1.55	<0.28
ug/dscm	<0.05	<0.03	0.07	0.04	0.28	<0.03
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100
Analytical Hg, ng/ml	<1.40	<1.40	<1.40	<1.40	<1.40	<1.40
ug/dscm	<0.10	<0.06	<0.10	<0.06	<0.10	<0.06
Particulate Hg (ug/dscm)	3.40	<0.00	3.70	<0.00	3.22	<0.00
Oxidized Hg (ug/dscm)	3.67	<0.20	3.34	<0.20	3.21	<0.22
Elemental Hg (ug/dscm)	<0.32	<0.20	<0.33	<0.20	0.55	<0.20
Total Hg (ug/dscm)	7.39	<0.40	7.37	<0.40	6.98	<0.42
Particulate Hg (ug/dscm @ 3% O2)	4.41	<0.00	4.83	<0.00	4.13	<0.00
Oxidized Hg (ug/dscm @ 3% O2)	4.77	<0.30	4.36	<0.30	4.11	<0.32
Elemental Hg (ug/dscm @ 3% O2)	<0.41	<0.29	<0.43	<0.29	0.70	<0.28
Total Hg (ug/dscm @ 3% O2)	9.59	<0.59	9.63	<0.59	8.93	<0.60

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - HIGH SULFUR COAL - NO CARBON INJECTION

Location		SCRI	SCRO	AHO	Stack	SCRI	SCRO	AHO	Stack	SCRI	SCRO	AHO	Stack
Date		10/2/07	10/2/07	10/2/07	10/2/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07	10/3/07
Start Time		1505	1505	1505	1505	1230	1230	1230	1232	1555	1555	1555	1555
Stop Time		1715	1635	1721	1725	1410	1423	1436	1439	1756	1756	1804	1807
Test Number		1	1	1	1	2	2	2	2	3	3	3	3
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	1.046	0.991	0.970	0.967	1.046	0.991	0.970	0.967	1.046	0.991	0.970	0.967
Gas Volume	- ft^3	52.02	32.77	60.85	93.66	39.00	33.86	57.85	86.75	42.40	35.16	57.05	88.76
Delta H of dry gas meter	- " H_20	0.79	0.44	0.82	1.90	0.55	0.29	0.78	1.58	0.41	0.28	0.78	1.63
Meter Temperature	- °F	96.0	84.7	74.4	74.3	99.4	90.0	83.4	81.9	104.0	93.6	87.4	85.8
C Factor of pitot tube	-	0.840	0.823	0.827	0.833	0.840	0.823	0.827	0.833	0.840	0.823	0.827	0.833
Nozzle Diameter	- inches	0.276	0.276	0.194	0.248	0.250	0.250	0.194	0.248	0.250	0.250	0.194	0.248
A n (area of nozzle)	- ft^2	0.00042	0.00042	0.00021	0.00034	0.00034	0.00034	0.00021	0.00034	0.00034	0.00034	0.00021	0.00034
Area of Stack	- ft^2			114.0	132.7			114.0	132.7			114.0	132.7
H_2O Weight	- gm	103.1	66.0	100.1	283.6	91.4	66.2	104.0	287.9	103.9	72.7	109.7	292.7
Sample Time	- minutes	113	90	120	120	100	100	120	120	120	120	120	120
Barometric Pressure	- " Hg	29.62	29.62	29.62	29.62	29.44	29.44	29.44	29.44	29.38	29.38	29.38	29.38
Static Pressure	- " H_20	-6.50	-8.50	-14.50	-0.50	-6.50	-8.00	-13.70	-0.46	-6.50	-8.00	-13.80	-0.39
% Oxygen	-	4.1	4.5	7.0	7.3	4.0	4.1	6.7	7.0	4.8	4.0	6.9	7.3
% Carbon Dioxide (calculated)	-	14.5	14.2	12.0	11.8	14.6	14.5	12.2	12.0	13.9	14.6	12.1	11.7
% N_2 + CO (calculated)	-	81.4	81.3	81.0	80.9	81.4	81.4	81.1	81.0	81.3	81.4	81.0	81.0
Stack Temp (Dry Bulb)	- °F	657	666	306	177	654	680	314	176	673	664	306	176
Stack Temp (Wet Bulb)	- °F												
"S" sample (rms vel head)	- " H_20	0.215	0.149	0.779	0.603	0.308	0.166	0.754	0.555	0.232	0.160	0.740	0.572
Dust Wt.	- gm	10.1805	7.2703	9.8372	0.0009	7.3394	7.1769	4.7769	0.0009	6.8903	8.2204	9.6761	0.0004
Sample Volume	- DSCF	51.24	31.18	57.83	88.99	37.92	31.71	53.73	80.71	40.80	32.64	52.50	81.83
Sample Volume	- dscm	1.451	0.883	1.638	2.520	1.074	0.898	1.522	2.286	1.155	0.924	1.487	2.317
ABS Duct Pressure	- " Hg	29.14	29.00	28.55	29.58	28.96	28.85	28.43	29.41	28.90	28.79	28.37	29.35
ABS Duct Temperature	- °R	1117	1126	766	637	1114	1140	774	636	1133	1124	766	636
H_2O - % by Vol	- vapor	8.7	9.1	7.5	13.1	10.2	9.0	8.4	14.4	10.7	9.5	9.0	14.4
Water Volume	- std ft^3	4.86	3.11	4.71	13.36	4.30	3.12	4.90	13.56	4.89	3.42	5.17	13.79
Dry Molecular Weight	- lb/lb-mole	30.49	30.45	30.20	30.17	30.49	30.48	30.23	30.20	30.41	30.49	30.21	30.17
Wet Molecular Weight	- lb/lb-mole	29.41	29.32	29.28	28.59	29.22	29.36	29.20	28.44	29.09	29.31	29.11	28.42
% EXCESS AIR	-	23.6	26.5	48.6	51.9	22.9	23.6	45.6	48.6	28.8	22.9	47.6	51.9
Dry Mole Frac.	-	0.913	0.909	0.925	0.869	0.898	0.910	0.916	0.856	0.893	0.905	0.910	0.856
Wet Mole Frac.	-	0.087	0.091	0.075	0.131	0.102	0.090	0.084	0.144	0.107	0.095	0.090	0.144
Gas Velocity, Direct	- ft/sec	38.04	31.25	59.73	48.01	45.72	33.25	59.28	46.26	40.16	32.48	58.56	47.03
ACFM	-			408539	382346			405491	368376			400563	374541
DSCFM	-			248584	272288			240809	257416			238397	261174
DSCFM (rounded)				248600	272300			240800	257400			238400	261200
DSCMM				7040	7711			6820	7290			6751	7396
Excess Air Free DSCFM	-			165445	177182			163612	171200			159692	169951
CALCULATED FIRING RATE:													
Dry	- lb/min			1242	1330			1219	1276			1190	1266
Wet	- lb/min			1329	1423			1293	1353			1260	1341
Dry	- lb/hr			74533	79821			73160	76553			71402	75989
Wet	- lb/hr			79723	85379			77591	81189			75598	80455
CALCULATED FIRING RATE:													
Dry	- tons/hr			37.3	39.9			36.6	38.3			35.7	38.0
Wet	- tons/hr			39.9	42.7			38.8	40.6			37.8	40.2
HEAT INPUT:													
MM Btu/hr	-			1025	1098			1006	1052			980	1043
PARTICULATE LOADING:													
Grains/DSCF	-	3.0659	3.5976	2.6249	0.0002	2.9862	3.4924	1.3717	0.0002	2.6059	3.8860	2.8441	0.0001
lb/hr	-			5595.21	0.36			2832.29	0.38			5813.79	0.17
lb/MM Btu	-			5.4596	0.0003			2.8159	0.0004			5.9299	0.0002
% ISOKINETIC	-	113.8	107.7	107.8	107.9	98.5	114.8	103.4	103.5	103.1	100.2	102.0	103.4

Impinger Components Wts & Volumes	SCRI - 1	SCRO - 1	AHO - 1	Stack - 1	SCRI - 2	SCRO - 2	AHO - 2	Stack - 2	SCRI - 3	SCRO - 3	AHO - 3	Stack - 3
Filter Wt., g	10.1805	7.2703	9.8372	0.0009	7.3394	7.1769	4.7769	0.0009	6.8903	8.2204	9.6761	0.0004
ppm Hg (thimbles) or ug/filter (filters)	0.02	0.01	0.53	0.00	0.03	0.01	0.65	0.00	0.02	0.02	0.71	0.00
total ug	0.16	0.10	5.21	0.00	0.23	0.10	3.11	0.00	0.10	0.13	6.85	0.00
ug/dscm	0.11	0.12	3.18	0.00	0.21	0.11	2.05	0.00	0.09	0.14	4.61	0.00
Probe Rinse volume, ml	138	197	72	122	210	260	117	165	207	138	125	130
Analytical Hg, ng/ml	0.46	0.16	1.75	0.42	0.13	0.12	4.43	0.16	0.52	0.34	0.22	0.16
ug/dscm	0.04	0.03	0.08	0.02	0.03	0.03	0.34	0.01	0.09	0.05	0.02	0.01
Line Rinse volume, ml	162	183	90	122	148	113		160	160	163	65	250
Analytical Hg, ng/ml	4.89	0.78	1.55	1.27	21.30	1.11		0.19	18.35	2.05	0.94	0.14
ug/dscm	0.55	0.16	0.09	0.06	2.94	0.14	0.00	0.01	2.54	0.36	0.04	0.02
KCl volume, ml	537	510	544	714	527	679	544	715	538	516	549	714
Analytical Hg, ng/ml	5.35	3.33	11.22	0.16	0.49	10.47	14.81	0.16	0.96	4.87	7.56	0.14
ug/dscm	1.98	1.92	3.73	0.04	0.24	7.92	5.29	0.05	0.45	2.72	2.79	0.04
Nitric/Peroxide volume, ml	177	173	175	179	176	105	175	179	179	175	175	179
Analytical Hg, ng/ml	2.22	2.21	0.55	0.08	2.02	10.22	0.68	0.53	2.25	2.93	0.61	0.14
ug/dscm	0.27	0.43	0.06	0.01	0.33	1.20	0.08	0.04	0.35	0.55	0.07	0.01
KMnO4 volume, ml	246	245	242	244	250	147	247	246	247	246	245	244
Analytical Hg, ng/ml	10.56	12.20	1.91	0.52	8.03	5.12	0.22	0.10	4.15	1.26	0.34	0.13
ug/dscm	1.79	3.38	0.28	0.05	1.87	0.84	0.04	0.01	0.89	0.34	0.06	0.01
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100	100	100	100	100	100	100
Analytical Hg, ng/ml	0.65	0.50	0.29	0.03	0.46	0.41	0.14	0.09	0.46	0.36	0.16	0.14
ug/dscm	0.04	0.06	0.02	0.00	0.04	0.05	0.01	0.00	0.04	0.04	0.01	0.01
Particulate Hg (ug/dscm)	0.11	0.12	3.18	0.00	0.21	0.11	2.05	0.00	0.09	0.14	4.61	0.00
Oxidized Hg (ug/dscm)	2.57	2.12	3.89	0.13	3.20	8.09	5.64	0.07	3.08	3.13	2.85	0.07
Elemental Hg (ug/dscm)	2.11	3.87	0.36	0.06	2.24	2.08	0.12	0.06	1.28	0.93	0.14	0.03
Total Hg (ug/dscm)	4.79	6.11	7.43	0.18	5.65	10.28	7.80	0.13	4.45	4.20	7.60	0.10
Particulate Hg (ug/dscm @ 3% O2)	0.12	0.13	4.10	0.00	0.22	0.11	2.58	0.00	0.10	0.15	5.89	0.00
Oxidized Hg (ug/dscm @ 3% O2)	2.74	2.31	5.00	0.17	3.39	8.62	7.10	0.09	3.43	3.32	3.65	0.09
Elemental Hg (ug/dscm @ 3% O2)	2.24	4.23	0.46	0.07	2.38	2.21	0.15	0.07	1.42	0.98	0.18	0.04
Total Hg (ug/dscm @ 3% O2)	5.10	6.67	9.56	0.24	5.99	10.95	9.84	0.17	4.95	4.45	9.71	0.13
						Backflush						

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - HIGH SULUR COAL - WITH CARBON INJECTION

Location			AHO	Stack	AHO	Stack
Date			10/5/07	10/5/07	10/5/07	10/5/07
Start Time			1110	1110	1402	1400
Stop Time			1255	1320	1620	1642
Test Number			4	4	5	5
Sample Type			OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-		0.979	0.967	0.979	0.967
Gas Volume	-	ft^3	49.34	87.38	59.45	91.60
Delta H of dry gas meter	-	" H_2O	0.83	1.66	0.81	1.69
Meter Temperature	-	°F	82.3	84.8	90.1	97.0
C Factor of pitot tube	-		0.827	0.833	0.827	0.833
Nozzle Diameter	-	inches	0.194	0.248	0.194	0.248
A n (area of nozzle)	-	ft^2	0.00021	0.00034	0.00021	0.00034
Area of Stack (Single of Dual)	-	ft^2	114.0	132.7	114.0	132.7
H_2O Weight	-	gm	101.2	298.0	130.4	311.9
Sample Time	-	minutes	100	120	122	120
Barometric Pressure	-	" Hg	29.68	29.68	29.68	29.68
Static Pressure	-	" H_2O	-14.50	-0.39	-14.10	-0.36
% Oxygen	-		6.9	7.1	6.7	7.5
% Carbon Dioxide (calculated)	-		12.1	11.9	12.3	11.6
% N_2 + CO (calculated)	-		81.0	81.0	81.0	80.9
Stack Temp (Dry Bulb)	-	°F	308	176	307	175
Stack Temp (Wet Bulb)	-	°F				
"S" sample (rms vel head)	-	" H_2O	0.862	0.581	0.823	0.594
Dust Wt.	-	gm	8.7215	0.0010	8.6406	0.0001
Sample Volume	-	DSCF	46.73	81.53	55.50	83.61
Sample Volume	-	dscm	1.323	2.309	1.572	2.368
ABS Duct Pressure	-	" Hg	28.61	29.65	28.64	29.65
ABS Duct Temperature	-	°R	768	636	767	635
H_2O - % by Vol	-	vapor	9.3	14.7	10.0	14.9
Water Volume	-	std ft^3	4.77	14.04	6.14	14.69
Dry Molecular Weight	-	lb/lb-mole	30.21	30.19	30.24	30.16
Wet Molecular Weight	-	lb/lb-mole	29.08	28.40	29.02	28.34
% EXCESS AIR	-		47.6	50.0	45.6	54.1
Dry Mole Frac.	-		0.907	0.853	0.900	0.851
Wet Mole Frac.	-		0.093	0.147	0.100	0.149
Gas Velocity, Direct	-	ft/sec	63.04	47.19	61.62	47.71
ACFM	-		431223	375788	421448	379951
DSCFM	-		257415	263765	250070	266237
DSCFM (rounded)			257400	263800	250100	266200
DSCMM			7290	7470	7082	7540
Excess Air Free DSCFM	-		172431	173782	169904	170697
CALCULATED FIRING RATE:						
Dry	-	lb/min	1284	1294	1264	1270
Wet	-	lb/min	1384	1394	1356	1362
Dry	-	lb/hr	77051	77655	75824	76178
Wet	-	lb/hr	83011	83661	81347	81727
CALCULATED FIRING RATE:						
Dry	-	tons/hr	38.5	38.8	37.9	38.1
Wet	-	tons/hr	41.5	41.8	40.7	40.9
HEAT INPUT:						
MM Btu/hr	-		1062	1070	1049	1054
PARTICULATE LOADING:						
Grains/DSCF	-		2.8798	0.0002	2.4022	0.0000
lb/hr	-		6355.96	0.43	5151.56	0.04
lb/MM Btu	-		5.9845	0.0004	4.9115	0.0000
% ISOKINETIC	-		100.9	102.0	101.1	103.7

Impinger Components Wts & Volumes	AHO - 4	Stack - 4	AHO - 5	Stack - 5
Filter Wt., g	8.7215	0.0010	8.6406	0.0001
ppm Hg (thimbles) or ug/filter (filters)	0.78	0.00	0.78	0.00
total ug	6.79	0.00	6.77	0.00
ug/dscm	5.13	0.00	4.30	0.00
Probe Rinse volume, ml	160	100	180	92
Analytical Hg, ng/ml	0.52	0.05	0.28	0.11
ug/dscm	0.06	0.00	0.03	0.00
Line Rinse volume, ml	150	85	200	88
Analytical Hg, ng/ml	0.54	3.08	0.71	0.83
ug/dscm	0.06	0.11	0.09	0.03
KCl volume, ml	537	727	553	735
Analytical Hg, ng/ml	7.30	1.28	8.98	0.58
ug/dscm	2.96	0.40	3.16	0.18
Nitric/Peroxide volume, ml	178	179	181	177
Analytical Hg, ng/ml	0.12	0.36	0.19	0.19
ug/dscm	0.02	0.03	0.02	0.01
KMnO4 volume, ml	248	248	252	248
Analytical Hg, ng/ml	0.54	0.30	1.04	0.14
ug/dscm	0.10	0.03	0.17	0.01
KMnO4-Acid Rinse volume, ml	100	100	100	100
Analytical Hg, ng/ml	0.09	0.08	0.09	0.12
ug/dscm	0.01	0.00	0.01	0.01
Particulate Hg (ug/dscm)	5.13	0.00	4.30	0.00
Oxidized Hg (ug/dscm)	3.09	0.52	3.28	0.22
Elemental Hg (ug/dscm)	0.12	0.06	0.19	0.03
Total Hg (ug/dscm)	8.34	0.58	7.78	0.25
Particulate Hg (ug/dscm @ 3% O2)	6.56	0.00	5.43	0.00
Oxidized Hg (ug/dscm @ 3% O2)	3.95	0.67	4.14	0.29
Elemental Hg (ug/dscm @ 3% O2)	0.16	0.08	0.25	0.05
Total Hg (ug/dscm @ 3% O2)	10.66	0.76	9.81	0.33

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - TURBOSORP PARAMETRIC TESTS - NO CARBON INJECTION

Location		AHO	Stack	AHO	Stack	AHO	Stack	AHO	Stack
Date		10/8/07	10/8/07	10/9/07	10/9/07	10/10/07	10/10/07	10/11/07	10/11/07
Start Time		1115	1112	1545	1545	1045	1040	1230	1230
Stop Time		1307	1315	1640	1640	1235	1245	1408	1435
Test Number		6	6	7	7	8	8	9	9
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	1.046	0.967	1.046	0.967	1.046	0.967	1.046	0.967
Gas Volume	- ft^3	46.63	86.33	25.60	41.64	46.83	88.65	45.81	85.93
Delta H of dry gas meter	- " H_2O	0.74	1.72	0.77	1.84	0.73	1.68	0.72	1.64
Meter Temperature	- °F	92.9	86.7	79.3	75.1	79.1	67.7	71.1	60.2
C Factor of pitot tube	-	0.827	0.833	0.827	0.833	0.827	0.833	0.827	0.833
Nozzle Diameter	- inches	0.194	0.248	0.194	0.248	0.194	0.248	0.194	0.248
A n (area of nozzle)	- ft^2	0.00021	0.00034	0.00021	0.00034	0.00021	0.00034	0.00021	0.00034
Area of Stack (Single of Dual)	- ft^2	114.0	132.7	114.0	132.7	114.0	132.7	114.0	132.7
H_2O Weight	- gm	117.0	299.9	63.9	150.4	95.7	275.2	100.3	272.2
Sample Time	- minutes	107	116	55	54	107	120	107	120
Barometric Pressure	- " Hg	29.35	29.35	29.15	29.15	29.12	29.12	29.15	29.15
Static Pressure	- " H_2O	-14.90	-0.39	-15.10	-0.40	-15.26	-0.39	-14.91	-0.41
% Oxygen	-	7.0	7.2	6.9	7.3	7.0	7.3	7.1	7.1
% Carbon Dioxide (calculated)	-	12.0	11.9	12.1	11.8	12.0	11.8	11.9	11.9
% N_2 + CO (calculated)	-	81.0	80.9	81.0	80.9	80.9	80.9	81.0	81.0
Stack Temp (Dry Bulb)	- °F	313	176	320	176	313	174	311	178
Stack Temp (Wet Bulb)	- °F								
"S" sample (rms vel head)	- " H_2O	0.753	0.609	0.823	0.653	0.739	0.602	0.726	0.589
Dust Wt.	- gm	7.1281	0.0213	4.2011	0.0003	8.1884	0.0018	8.3837	0.0008
Sample Volume	- DSCF	45.76	79.40	25.58	38.87	46.76	83.81	46.48	82.48
Sample Volume	- dscm	1.296	2.249	0.724	1.101	1.324	2.373	1.316	2.336
ABS Duct Pressure	- " Hg	28.25	29.32	28.04	29.12	28.00	29.09	28.05	29.12
ABS Duct Temperature	- °R	773	636	780	636	773	634	771	638
H_2O - % by Vol	- vapor	10.7	15.1	10.5	15.4	8.8	13.4	9.2	13.5
Water Volume	- std ft^3	5.51	14.13	3.01	7.08	4.51	12.96	4.72	12.82
Dry Molecular Weight	- lb/lb-mole	30.21	30.19	30.22	30.18	30.21	30.18	30.19	30.19
Wet Molecular Weight	- lb/lb-mole	28.90	28.35	28.93	28.30	29.13	28.55	29.07	28.55
% EXCESS AIR	-	48.7	50.8	47.7	51.9	49.1	51.8	49.7	49.7
Dry Mole Frac.	-	0.893	0.849	0.895	0.846	0.912	0.866	0.908	0.865
Wet Mole Frac.	-	0.107	0.151	0.105	0.154	0.088	0.134	0.092	0.135
Gas Velocity, Direct	- ft/sec	59.69	48.59	62.88	50.54	59.16	48.27	58.56	47.86
ACFM	-	408301	386999	430116	402525	404654	384430	400530	381128
DSCFM	-	235088	267510	244198	275198	235965	269637	233606	265894
DSCFM (rounded)		235100	267500	244200	275200	236000	269600	233600	265900
DSCMM		6658	7576	6916	7794	6683	7636	6616	7530
Excess Air Free DSCFM	-	156350	175353	163577	179076	156482	175587	154247	175566
CALCULATED FIRING RATE:									
Dry	- lb/min	1161	1302	1210	1325	1169	1311	1152	1311
Wet	- lb/min	1245	1396	1286	1408	1247	1400	1227	1397
Dry	- lb/hr	69671	78139	72615	79496	70121	78682	69109	78661
Wet	- lb/hr	74698	83777	77152	84462	74835	83972	73646	83825
CALCULATED FIRING RATE:									
Dry	- tons/hr	34.8	39.1	36.3	39.7	35.1	39.3	34.6	39.3
Wet	- tons/hr	37.3	41.9	38.6	42.2	37.4	42.0	36.8	41.9
HEAT INPUT:									
MM Btu/hr	-	960	1077	1001	1096	963	1080	945	1076
PARTICULATE LOADING:									
Grains/DSCF	-	2.4037	0.0041	2.5340	0.0001	2.7021	0.0003	2.7833	0.0001
lb/hr	-	4845.51	9.49	5305.96	0.28	5467.90	0.77	5574.96	0.34
lb/MM Btu	-	5.0467	0.0088	5.3010	0.0003	5.6807	0.0007	5.8986	0.0003
% ISOKINETIC	-	101.5	101.4	105.1	103.0	103.0	102.6	103.4	102.4

Impinger Components Wts & Volumes	AHO - 6	Stack - 6	AHO - 7	Stack - 7	AHO - 8	Stack - 8	AHO - 9	Stack - 9
Filter Wt., g	7.1281	0.0213	4.2011	0.0003	8.1884	0.0018	8.3837	0.0008
ppm Hg (thimbles) or ug/filter (filters)	0.64	0.06	0.81	0.00	0.97	0.00	1.04	0.00
total ug	4.58	0.06	3.39	0.00	7.96	0.00	8.72	0.00
ug/dscm	3.54	0.03	4.69	0.00	6.01	0.00	6.62	0.00
Probe Rinse volume, ml	130	145	130	125	138	140	145	115
Analytical Hg, ng/ml	0.80	0.30	0.51	0.08	0.41	0.04	0.25	0.09
ug/dscm	0.08	0.02	0.09	0.01	0.04	0.00	0.03	0.00
Line Rinse volume, ml	140	115	155	103	162	100	162	130
Analytical Hg, ng/ml	1.99	1.12	0.78	0.62	1.01	0.55	0.44	0.34
ug/dscm	0.21	0.06	0.17	0.06	0.12	0.02	0.05	0.02
KCl volume, ml	556	728	512	589	527	706	537	703
Analytical Hg, ng/ml	10.50	0.92	5.80	0.25	7.26	0.09	5.69	0.06
ug/dscm	4.51	0.30	4.10	0.13	2.89	0.03	2.32	0.02
Nitric/Peroxide volume, ml	175	179	175	176	175	177	175	179
Analytical Hg, ng/ml	0.15	0.08	0.10	0.34	0.13	0.10	0.39	0.04
ug/dscm	0.02	0.01	0.03	0.05	0.02	0.01	0.05	0.00
KMnO4 volume, ml	248	248	246	250	255	250	250	249
Analytical Hg, ng/ml	0.35	0.21	0.23	0.07	0.36	0.04	0.17	0.04
ug/dscm	0.07	0.02	0.08	0.02	0.07	0.00	0.03	0.00
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100	100	100
Analytical Hg, ng/ml	0.06	0.05	0.03	0.07	0.04	0.04	0.10	0.05
ug/dscm	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
Particulate Hg (ug/dscm)	3.54	0.03	4.69	0.00	6.01	0.00	6.62	0.00
Oxidized Hg (ug/dscm)	4.80	0.37	4.36	0.20	3.06	0.05	2.40	0.04
Elemental Hg (ug/dscm)	0.09	0.03	0.11	0.08	0.09	0.01	0.09	0.01
Total Hg (ug/dscm)	8.43	0.43	9.15	0.28	9.15	0.07	9.12	0.05
Particulate Hg (ug/dscm @ 3% O2)	4.55	0.04	5.99	0.00	7.76	0.00	8.59	0.00
Oxidized Hg (ug/dscm @ 3% O2)	6.18	0.49	5.57	0.26	3.95	0.07	3.12	0.05
Elemental Hg (ug/dscm @ 3% O2)	0.12	0.04	0.14	0.10	0.11	0.02	0.12	0.01
Total Hg (ug/dscm @ 3% O2)	10.85	0.57	11.70	0.37	11.82	0.09	11.83	0.07

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - LOW LOAD / BIOMASS - NO CARBON INJECTION

Location			Stack	Stack	Stack	Stack	AHO	Stack
Date			11/13/07	11/14/07	11/14/07	11/15/07	11/16/07	11/16/07
Start Time			2325	0347	2300	0345	1635	1640
Stop Time			0131	0555	0107	0554	1855	1847
Test Number			1	2	3	4	5	5
Sample Type			OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-		1.046	1.046	1.046	1.046	1.001	1.046
Gas Volume	-	ft^3	98.51	97.56	109.30	83.04	48.68	78.00
Delta H of dry gas meter	-	" H_2O	2.36	2.34	2.99	1.61	0.58	1.41
Meter Temperature	-	°F	66.3	63.8	70.8	68.3	44.2	53.5
C Factor of pitot tube	-		0.833	0.833	0.833	0.833	0.827	0.833
Nozzle Diameter	-	inches	0.332	0.332	0.332	0.276	0.187	0.248
A n (area of nozzle)	-	ft^2	0.00060	0.00060	0.00060	0.00042	0.00019	0.00034
Area of Stack (Single of Dual)	-	ft^2	132.7	132.7	132.7	132.7	114.0	132.7
H_2O Weight	-	gm	250.0	249.6	334.0	269.8	93.2	248.7
Sample Time	-	minutes	120	120	120	120	120	120
Barometric Pressure	-	" Hg	29.34	29.23	29.09	29.03	29.23	29.23
Static Pressure	-	" H_2O	-0.39	-0.42	-0.39	-0.38	-13.70	-0.51
% Oxygen	-		10.0	10.3	7.6	8.3	7.0	9.0
% Carbon Dioxide (calculated)	-		9.4	9.1	11.4	10.8	12.0	10.2
% N_2 + CO (calculated)	-		80.6	80.6	81.0	80.9	81.0	80.8
Stack Temp (Dry Bulb)	-	°F	183	182	182	184	308	183
Stack Temp (Wet Bulb)	-	°F						
"S" sample (rms vel head)	-	" H_2O	0.280	0.275	0.355	0.379	0.725	0.549
Dust Wt.	-	gm	0.0013	0.0007	0.0010	0.0013	9.2010	0.0022
Sample Volume	-	DSCF	101.93	101.05	111.36	84.54	49.91	82.21
Sample Volume	-	dscm	2.887	2.862	3.154	2.394	1.413	2.328
ABS Duct Pressure	-	" Hg	29.31	29.20	29.06	29.00	28.22	29.19
ABS Duct Temperature	-	°R	643	642	642	644	768	643
H_2O - % by Vol	-	vapor	10.4	10.4	12.4	13.1	8.1	12.5
Water Volume	-	std ft^3	11.78	11.76	15.73	12.71	4.39	11.71
Dry Molecular Weight	-	lb/lb-mole	29.90	29.86	30.13	30.06	30.19	30.00
Wet Molecular Weight	-	lb/lb-mole	28.67	28.63	28.63	28.49	29.21	28.50
% EXCESS AIR	-		88.3	93.8	55.2	63.6	48.6	73.0
Dry Mole Frac.	-		0.896	0.896	0.876	0.869	0.919	0.875
Wet Mole Frac.	-		0.104	0.104	0.124	0.131	0.081	0.125
Gas Velocity, Direct	-	ft/sec	32.96	32.73	37.28	38.70	58.11	46.40
ACFM	-		262455	260662	296904	308228	397455	369529
DSCFM	-		189354	187378	207688	212979	236910	258977
DSCFM (rounded)			189400	187400	207700	213000	236900	259000
DSCMM			5363	5307	5882	6032	6709	7334
Excess Air Free DSCFM	-		98935	95034	132165	128399	157562	147456
CALCULATED FIRING RATE:								
Dry	-	lb/min	735	702	1001	969	1263	1182
Wet	-	lb/min	796	759	1080	1044	1373	1285
Dry	-	lb/hr	44099	42115	60080	58151	75780	70919
Wet	-	lb/hr	47731	45529	64818	62669	82405	77120
CALCULATED FIRING RATE:								
Dry	-	tons/hr	22.0	21.1	30.0	29.1	37.9	35.5
Wet	-	tons/hr	23.9	22.8	32.4	31.3	41.2	38.6
HEAT INPUT:								
MM Btu/hr	-		607	576	801	783	960	898
PARTICULATE LOADING:								
Grains/DSCF	-		0.0002	0.0001	0.0001	0.0002	2.8448	0.0004
lb/hr	-		0.32	0.17	0.25	0.43	5778.68	0.92
lb/MM Btu	-		0.0005	0.0003	0.0003	0.0006	6.0191	0.0010
% ISOKINETIC	-		99.1	99.3	98.8	105.8	105.0	104.8

Impinger Components Wts & Volumes	Stack - 1	Stack - 2	Stack - 3	Stack - 4	AHO - 5	Stack - 5
Filter Wt., g	0.0013	0.0007	0.0010	0.0013	9.2010	0.0022
ppm Hg (thimbles) or ug/filter (filters)	0.00	0.00	0.00	0.01	1.67	0.00
total ug	0.00	0.00	0.00	0.01	15.37	0.00
ug/dscm	0.00	0.00	0.00	0.00	10.87	0.00
Probe Rinse volume, ml	140	170	187	198	117	200
Analytical Hg, ng/ml	0.03	0.06	0.03	0.02	1.97	0.02
ug/dscm	0.00	0.00	0.00	0.00	0.16	0.00
Line Rinse volume, ml	125	105	150	132	78	150
Analytical Hg, ng/ml	0.20	0.44	0.18	0.19	11.50	0.26
ug/dscm	0.01	0.02	0.01	0.01	0.63	0.02
KCl volume, ml	666	655	747	686	528	682
Analytical Hg, ng/ml	0.09	0.07	0.05	0.02	9.58	0.04
ug/dscm	0.02	0.02	0.01	0.01	3.58	0.01
Nitric/Peroxide volume, ml	184	191	185	179	179	178
Analytical Hg, ng/ml	0.17	0.16	0.13	0.12	0.38	0.16
ug/dscm	0.01	0.01	0.01	0.01	0.05	0.01
KMnO4 volume, ml	255	259	252	251	252	251
Analytical Hg, ng/ml	0.10	0.32	0.01	0.05	1.15	0.03
ug/dscm	0.01	0.03	0.00	0.01	0.21	0.00
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100
Analytical Hg, ng/ml	0.06	0.10	0.02	0.04	0.04	0.01
ug/dscm	0.00	0.00	0.00	0.00	0.00	0.00
Particulate Hg (ug/dscm)	0.00	0.00	0.00	0.00	10.87	0.00
Oxidized Hg (ug/dscm)	0.03	0.04	0.02	0.02	4.38	0.03
Elemental Hg (ug/dscm)	0.02	0.04	0.01	0.02	0.26	0.02
Total Hg (ug/dscm)	0.06	0.08	0.03	0.04	15.50	0.05
Particulate Hg (ug/dscm @ 3% O2)	0.00	0.00	0.00	0.00	14.00	0.00
Oxidized Hg (ug/dscm @ 3% O2)	0.05	0.06	0.03	0.03	5.64	0.04
Elemental Hg (ug/dscm @ 3% O2)	0.04	0.07	0.01	0.02	0.33	0.02
Total Hg (ug/dscm @ 3% O2)	0.09	0.13	0.04	0.05	19.97	0.07

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - BIOMASS CO-FIRING - NO CARBON INJECTION

Location		ECO	AHI	AHO	STK	ECO	AHI	AHO	STK	ECO	AHI	AHO	STK	ECO	AHI	AHO	STK
Date		3/11/08	3/11/08	3/11/08	3/11/08	3/11/08	3/11/08	3/11/08	3/11/08	3/12/08	3/12/08	3/12/08	3/12/08	3/12/08	3/12/08	3/12/08	3/12/08
Start Time		928	930	929	932	1327	1325	1330	1330	945	945	943	945	1350	1350	1350	1350
Stop Time		1157	1130	1142	1155	1628	1530	1542	1544	1147	1145	1158	1206	1616	1538	1602	1614
Test Number		ECON-1	AHI-1	AHO-1	STK-1	ECON-2	AHI-2	AHO-2	STK-2	ECON-3	AHI-3	AHO-3	STK-3	ECON-4	AHI-4	AHO-4	STK-4
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	0.985	0.990	1.002	0.993	0.985	0.990	1.002	0.993	0.985	0.990	1.002	0.993	0.985	0.990	1.002	0.993
Gas Volume	- ft^3	66.25	63.80	72.41	92.44	60.71	61.24	73.30	92.52	49.85	60.01	69.54	94.74	57.59	54.59	68.96	91.90
Delta H of dry gas meter	- " H_20	1.00	0.89	1.20	1.83	0.84	0.80	1.20	1.96	0.75	0.80	1.00	1.86	0.75	0.80	1.00	1.82
Meter Temperature	- °F	65.6	80.9	41.5	36.5	63.6	85.8	47.3	53.3	52.9	87.3	44.2	41.8	54.4	89.7	44.6	43.3
C Factor of pitot tube	-	NA	NA	0.840	0.834	NA	NA	0.840	0.834	NA	NA	0.840	0.834	NA	NA	0.840	0.834
Nozzle Diameter	- inches	NA	NA	NA	0.249	NA	NA	NA	0.249	NA	NA	NA	0.249	NA	NA	NA	0.249
A n (area of nozzle)	- ft^2	NA	NA	NA	0.00034	NA	NA	NA	0.00034	NA	NA	NA	0.00034	NA	NA	NA	0.00034
Area of Stack	- ft^2			114.0	132.7			114.0	132.7			114.0	132.7			114.0	132.7
H_2O Weight	- gm	136.0	125.7	136.0	281.4	131.1	110.7	140.9	283.9	120.8	119.5	138.3	300.6	159.5	110.5	135.1	296.4
Sample Time	- minutes	120	120	126	128	120	120	120	128	105	120	120	128	120	108	120	128
Barometric Pressure	- " Hg	29.59	29.59	29.59	29.59	29.47	29.47	29.47	29.47	29.12	29.12	29.12	29.12	29.12	29.12	29.12	29.12
Static Pressure	- " H_20	-6.00		-16.14	-0.76	-6.02		-16.04	-0.75	-6.11		-16.31	-0.75	-5.93		-16.11	-0.72
% Oxygen	-	4.1	4.9	7.1	7.5	5.2	6.4	7.2	7.8	4.2	4.8	6.8	7.5	4.8	5.0	7.1	7.6
% Carbon Dioxide (calculated)	-	14.7	14.0	12.0	11.7	13.7	12.7	12.0	11.5	14.6	14.1	12.4	11.7	14.1	13.9	12.1	11.6
% N_2 + CO (calculated)	-	81.2	81.1	80.9	80.8	81.1	80.9	80.8	80.7	81.2	81.1	80.8	80.8	81.1	81.1	80.8	80.8
Stack Temp (Dry Bulb)	- °F	658		299	174	679		301	176	659		305	175	669		304	175
Stack Temp (Wet Bulb)	- °F																
"S" sample (rms vel head)	- " H_20	NA	NA	0.770	0.660	NA	NA	0.850	0.621	NA	NA	0.777	0.670	NA	NA	0.739	0.657
Dust Wt.	- gm	NA	NA	NA	0.0014	NA	NA	NA	0.0005	NA	NA	NA	0.0012	NA	NA	NA	0.0007
Sample Volume	- DSCF	64.96	61.09	75.74	96.94	59.50	57.86	75.49	93.50	49.27	55.87	71.17	96.76	56.75	50.60	70.52	93.57
Sample Volume	- dscm	1.840	1.730	2.145	2.745	1.685	1.639	2.138	2.648	1.395	1.582	2.015	2.740	1.607	1.433	1.997	2.650
ABS Duct Pressure	- " Hg	29.15		28.40	29.53	29.03		28.29	29.41	28.67		27.92	29.07	28.68		27.94	29.07
ABS Duct Temperature	- °R	1118		759	634	1139		761	636	1119		765	635	1129		764	635
H_2O - % by Vol	- vapor	9.0	8.8	7.8	12.0	9.4	8.3	8.1	12.5	10.4	9.2	8.4	12.8	11.7	9.3	8.3	13.0
Water Volume	- std ft^3	6.41	5.92	6.41	13.25	6.17	5.21	6.64	13.37	5.69	5.63	6.51	14.16	7.51	5.20	6.36	13.96
Dry Molecular Weight	- lb/lb-mole	30.51	30.43	30.21	30.17	30.40	30.28	30.20	30.14	30.51	30.45	30.25	30.18	30.44	30.43	30.21	30.17
Wet Molecular Weight	- lb/lb-mole	29.39	29.33	29.26	28.71	29.24	29.27	29.22	28.63	29.21	29.31	29.22	28.62	28.99	29.27	29.20	28.59
% EXCESS AIR	-	23.6	29.7	49.8	54.2	32.1	42.8	50.9	57.7	24.4	28.9	46.8	54.3	29.2	30.5	50.2	55.4
Dry Mole Frac.	-	0.910	0.912	0.922	0.880	0.906	0.917	0.919	0.875	0.896	0.908	0.916	0.872	0.883	0.907	0.917	0.870
Wet Mole Frac.	-	0.090	0.088	0.078	0.120	0.094	0.083	0.081	0.125	0.104	0.092	0.084	0.128	0.117	0.093	0.083	0.130
Gas Velocity, Direct	- ft/sec			60.24	50.08			63.54	48.82			61.29	50.98			59.72	50.53
ACFM	-			412030	398817			434598	388765			419197	406018			408515	402397
DSCFM	-			250749	288557			261972	277774			247420	286138			241908	282761
DSCFM (rounded)	-			250700	288600			262000	277800			247400	286100			241900	282800
DSCMM	-			7101	8172			7419	7867			7007	8103			6851	8008
Excess Air Free DSCFM	-			165567	185008			171723	174107			166920	183457			159382	179939
CALCULATED FIRING RATE:																	
Dry	- lb/min			1260	1407			1307	1325			1284	1412			1222	1379
Wet	- lb/min			1373	1534			1427	1447			1398	1537			1327	1498
Dry	- lb/hr			75571	84444			78394	79482			77062	84697			73293	82746
Wet	- lb/hr			82375	92047			85611	86800			83909	92222			79614	89883
CALCULATED FIRING RATE:																	
Dry	- tons/hr			37.8	42.2			39.2	39.7			38.5	42.3			36.6	41.4
Wet	- tons/hr			41.2	46.0			42.8	43.4			42.0	46.1			39.8	44.9
HEAT INPUT:																	
MM Btu/hr	-			1028	1149			1071	1085			1046	1149			992	1119
PARTICULATE LOADING:																	
Grains/DSCF	-				0.0002				0.0001				0.0002				0.0001
lb/hr	-				0.55				0.20				0.47				0.28
lb/MM Btu	-				0.0005				0.0002				0.0004				0.0003
% ISOKINETIC	-				103.1				103.3				103.8				101.6

Impinger Components Wts & Volumes	ECON-1	AHI-1	AHO-1	STK-1	ECON-2	AHI-2	AHO-2	STK-2	ECON-3	AHI-3	AHO-3	STK-3	ECON-4	AHI-4	AHO-4	STK-4
Filter Wt., g	NA	NA	NA	0.0014	NA	NA	NA	0.0005	NA	NA	NA	0.0012	NA	NA	NA	0.0007
ppm Hg (thimbles) or ug/filter (filters)	<0.01	0.01	0.67	0.00	0.01	0.03	0.81	0.00	<0.01	0.01	1.06	0.00	0.00	0.01	1.28	0.00
total ug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ug/dscm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Probe Rinse volume, ml	122	132	112	140	150	113	162	113	150	140	148	173	162	108	105	175
Analytical Hg, ng/ml	3.63	0.80	0.76	0.11	16.60	1.21	0.50	0.10	1.25	1.48	1.27	0.08	2.19	0.78	4.26	0.07
ug/dscm	0.24	0.06	0.04	0.01	1.48	0.08	0.04	0.00	0.13	0.13	0.09	0.00	0.22	0.06	0.22	0.00
Line Rinse volume, ml	108	134	140	85	170	200	81	140	172	142	142	125	180	108	199	132
Analytical Hg, ng/ml	20.80	6.17	2.67	0.37	2.23	4.34	4.91	0.23	21.50	12.40	4.30	0.23	15.00	11.20	0.70	0.16
ug/dscm	1.22	0.48	0.17	0.01	0.22	0.53	0.19	0.01	2.65	1.11	0.30	0.01	1.68	0.84	0.07	0.01
KCl volume, ml	679	548	565	711	558	536	555	695	551	548	566	724	590	539	562	717
Analytical Hg, ng/ml	10.50	19.43	24.10	0.05	5.65	19.65	25.60	0.22	4.89	16.10	20.30	0.05	5.92	11.50	20.85	0.08
ug/dscm	3.88	6.16	6.35	0.01	1.87	6.43	6.65	0.06	1.93	5.58	5.70	0.01	2.17	4.33	5.87	0.02
Nitric/Peroxide volume, ml	180	182	185	190	181	181	185	189	181	181	181	182	181	181	181	185
Analytical Hg, ng/ml	11.20	2.32	0.39	0.09	3.67	1.42	0.53	0.13	3.39	1.90	0.39	0.09	6.41	2.16	0.43	0.10
ug/dscm	1.10	0.24	0.03	0.01	0.39	0.16	0.05	0.01	0.44	0.22	0.04	0.01	0.72	0.27	0.04	0.01
KMnO4 volume, ml	209	254	256	236	251	251	256	255	252	249	253	251	251	252	252	252
Analytical Hg, ng/ml	0.06	0.01	0.01	0.11	10.70	0.01	0.01	0.01	7.20	0.01	0.00	0.01	11.70	0.07	0.01	0.00
ug/dscm	0.01	0.00	0.00	0.01	1.59	0.00	0.00	0.00	1.30	0.00	0.00	0.00	1.83	0.01	0.00	0.00
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Analytical Hg, ng/ml	0.52	1.01	0.33	1.50	1.17	0.55	0.33	0.24	0.39	1.90	0.57	0.36	0.82	0.73	0.61	0.08
ug/dscm	0.03	0.06	0.02	0.05	0.07	0.03	0.02	0.01	0.03	0.12	0.03	0.01	0.05	0.05	0.03	0.00
Particulate Hg (ug/dscm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxidized Hg (ug/dscm)	5.34	6.69	6.56	0.03	3.57	7.04	6.87	0.07	4.72	6.82	6.10	0.03	4.07	5.23	6.16	0.03
Elemental Hg (ug/dscm)	1.13	0.30	0.05	0.07	2.06	0.19	0.06	0.02	1.77	0.34	0.06	0.02	2.60	0.34	0.07	0.01
Total Hg (ug/dscm)	6.47	7.00	6.61	0.10	5.63	7.23	6.93	0.09	6.48	7.16	6.16	0.05	6.67	5.56	6.23	0.04
Particulate Hg (ug/dscm @ 3% O2)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oxidized Hg (ug/dscm @ 3% O2)	5.69	7.49	8.51	0.04	4.07	8.69	8.98	0.10	5.05	7.58	7.74	0.04	4.54	5.89	8.01	0.05
Elemental Hg (ug/dscm @ 3% O2)	1.20	0.34	0.06	0.09	2.35	0.24	0.08	0.03	1.90	0.38	0.08	0.03	2.90	0.38	0.09	0.01
Total Hg (ug/dscm @ 3% O2)	6.89	7.83	8.58	0.13	6.42	8.93	9.06	0.13	6.95	7.96	7.82	0.07	7.44	6.26	8.10	0.06

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

PROCESS PERFORMANCE TESTING - LOW LOAD - NO CARBON INJECTION

Location		ECO	AHI	STK	ECO	AHI	STK
Date		5/19/08	5/19/08	5/19/08	5/20/08	5/20/08	5/20/08
Start Time		2331	2332	2330	305	307	305
Stop Time		143	142	147	517	515	514
Test Number		ECON-1	AHI-1	STK-1	ECON-2	AHI-2	STK-2
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	0.993	1.002	0.991	0.993	1.002	0.991
Gas Volume	- ft^3	51.52	57.82	60.42	52.35	59.92	60.54
Delta H of dry gas meter	- " H_2O	0.60	0.75	0.82	0.65	0.75	0.82
Meter Temperature	- °F	83.4	92.2	55.4	69.6	87.7	54.3
C Factor of pitot tube	-	NA	NA	0.821	NA	NA	0.821
Nozzle Diameter	- inches	NA	NA	0.260	NA	NA	0.260
A n (area of nozzle)	- ft^2	NA	NA	0.00037	NA	NA	0.00037
Area of Stack (Single of Dual)	- ft^2			132.7			132.7
H_2O Weight	- gm	90.0	98.4	141.2	94.7	98.7	150.4
Sample Time	- minutes	120	120	120	120	120	120
Barometric Pressure	- " Hg	29.00	29.00	29.00	29.03	29.03	29.03
Static Pressure	- " H_2O	-2.59		-0.41	-2.70		-0.44
% Oxygen	-	6.8	7.4	10.3	7.1	8.2	10.3
% Carbon Dioxide (calculated)	-	12.5	11.9	9.4	12.2	11.2	9.4
% N_2 + CO (calculated)	-	80.7	80.7	80.3	80.7	80.6	80.3
Stack Temp (Dry Bulb)	- °F	552		164	572		168
Stack Temp (Wet Bulb)	- °F						
"S" sample (rms vel head)	- " H_2O			0.258			0.259
Dust Wt.	- gm	11.9390	2.3205	0.0016	4.1614	2.8111	0.0010
Sample Volume	- DSCF	48.23	53.77	59.55	50.35	56.24	59.86
Sample Volume	- dscm	1.366	1.523	1.687	1.426	1.593	1.695
ABS Duct Pressure	- " Hg	28.81	29.00	28.97	28.83	29.03	29.00
ABS Duct Temperature	- °R	1012	460	624	1032	460	628
H_2O - % by Vol	- vapor	8.1	7.9	10.0	8.1	7.6	10.6
Water Volume	- std ft^3	4.24	4.63	6.65	4.46	4.65	7.08
Dry Molecular Weight	- lb/lb-mole	30.27	30.20	29.91	30.24	30.13	29.91
Wet Molecular Weight	- lb/lb-mole	29.27	29.24	28.71	29.24	29.20	28.65
% EXCESS AIR	-	46.8	53.2	94.4	50.0	62.8	94.5
Dry Mole Frac.	-	0.919	0.921	0.900	0.919	0.924	0.894
Wet Mole Frac.	-	0.081	0.079	0.100	0.081	0.076	0.106
Gas Velocity, Direct	- ft/sec			30.88			31.06
ACFM	-			245944			247373
DSCFM	-			181199			180156
DSCFM (rounded)				181200			180200
DSCMM				5132			5102
Excess Air Free DSCFM	-			91900			91371
CALCULATED FIRING RATE:							
Dry	- lb/min			723			721
Wet	- lb/min			769			770
Dry	- lb/hr			43381			43289
Wet	- lb/hr			46159			46209
CALCULATED FIRING RATE:							
Dry	- tons/hr			21.7			21.6
Wet	- tons/hr			23.1			23.1
HEAT INPUT:							
MM Btu/hr	-			582			579
PARTICULATE LOADING:							
Grains/DSCF	-			0.0004			0.0003
lb/hr	-			0.64			0.40
lb/MM Btu	-			0.0011			0.0007
% ISOKINETIC	-			98.7			99.8

Impinger Components Wts & Volumes	ECON-1	AHI-1	STK-1	ECON-2	AHI-2	STK-2
Filter Wt., g	NA	NA	0.0016	NA	NA	0.0010
ppm Hg (thimbles) or ug/filter (filters)	NA	NA	0.01	NA	NA	0.00
total ug	NA	NA	0.01	NA	NA	0.00
ug/dscm	NA	NA	0.00	NA	NA	0.00
Probe Rinse volume, ml	135	57	107	119	115	140
Analytical Hg, ng/ml	1.60	0.61	0.03	0.16	0.25	0.11
ug/dscm	0.16	0.02	0.00	0.01	0.02	0.01
Line Rinse volume, ml	155	57	147	185	100	117
Analytical Hg, ng/ml	5.16	7.70	0.14	0.61	5.24	0.12
ug/dscm	0.59	0.29	0.01	0.08	0.33	0.01
KCl volume, ml	518	527	577	523	526	581
Analytical Hg, ng/ml	19.00	27.70	0.14	19.10	20.90	0.15
ug/dscm	7.20	9.59	0.05	7.01	6.90	0.05
Nitric/Peroxide volume, ml	181	180	177	181	180	181
Analytical Hg, ng/ml	2.57	1.33	0.09	1.81	1.62	0.12
ug/dscm	0.34	0.16	0.01	0.23	0.18	0.01
KMnO4 volume, ml	252	253	251	254	253	253
Analytical Hg, ng/ml	7.06	1.36	0.19	7.44	8.45	0.25
ug/dscm	1.30	0.23	0.03	1.32	1.34	0.04
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100
Analytical Hg, ng/ml	0.25	0.12	0.04	0.22	0.55	0.09
ug/dscm	0.02	0.01	0.00	0.02	0.03	0.01
Particulate Hg (ug/dscm)	NA	NA	0.00	NA	NA	0.00
Oxidized Hg (ug/dscm)	7.95	9.90	0.06	7.10	7.25	0.07
Elemental Hg (ug/dscm)	1.66	0.39	0.04	1.57	1.56	0.06
Total Hg (ug/dscm)	9.61	10.29	0.11	8.67	8.81	0.13
Particulate Hg (ug/dscm @ 3% O2)	NA	NA	0.01	NA	NA	0.00
Oxidized Hg (ug/dscm @ 3% O2)	10.09	13.13	0.10	9.21	10.21	0.11
Elemental Hg (ug/dscm @ 3% O2)	2.11	0.52	0.07	2.03	2.20	0.09
Total Hg (ug/dscm @ 3% O2)	12.20	13.64	0.18	11.24	12.41	0.21

AES GREENIDGE UNIT 4 ONTARIO HYDRO SAMPLING TRAIN DATA

FOLLOW-UP TESTING - NO CARBON INJECTION

Location		ECO	AHI	STK	ECO	AHI	STK	ECO	AHI	STK	ECO	AHI	STK
Date		6/12/08	6/12/08	6/12/08	6/12/08	6/12/08	6/12/08	6/13/08	6/13/08	6/13/08	6/13/08	6/13/08	6/13/08
Start Time		940	940	942	1330	1330	1330	1000	1000	1000	1452	1441	1450
Stop Time		1145	1144	1157	1538	1533	1547	1211	1202	1328	1657	1643	1702
Test Number		ECON-1	AHI-1	STK-1	ECON-2	AHI-2	STK-2	ECON-3	AHI-3	STK-3	ECON-4	AHI-4	STK-4
Sample Type		OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg	OH-Hg
Y factor of dry gas meter	-	1.009	0.985	0.990	1.009	0.985	0.990	1.009	0.985	0.990	1.009	0.985	0.990
Gas Volume	- ft^3	26.50	57.17	92.05	37.07	53.02	93.10	36.85	52.85	99.60	56.31	57.63	93.32
Delta H of dry gas meter	- " H_2O	0.70	0.70	1.85	0.70	0.70	1.87	0.70	0.70	2.10	0.70	0.70	1.98
Meter Temperature	- °F	75.8	76.9	78.8	83.8	84.4	88.6	86.0	90.4	88.7	93.9	100.6	93.3
C Factor of pitot tube	-	NA	NA	0.821	NA	NA	0.821	NA	NA	0.821	NA	NA	0.821
Nozzle Diameter	- inches	NA	NA	0.260	NA	NA	0.260	NA	NA	0.260	NA	NA	0.260
A n (area of nozzle)	- ft^2	NA	NA	0.00037	NA	NA	0.00037	NA	NA	0.00037	NA	NA	0.00037
Area of Stack (Single of Dual)	- ft^2			132.7			132.7			132.7			132.7
H_2O Weight	- gm	58.0	116.7	285.9	73.9	104.9	281.6	75.4	101.9	315.4	126.7	117.2	270.2
Sample Time	- minutes	120	120	120	120	120	120	120	120	120	120	120	120
Barometric Pressure	- " Hg	29.54	29.54	29.54	29.65	29.65	29.65	29.65	29.65	29.65	29.62	29.62	29.62
Static Pressure	- " H_2O	-5.53		-0.40	-5.83		-0.42	-6.10		-0.41	-6.00		-0.39
% Oxygen	-	4.3	4.1	8.0	6.7	5.0	7.9	5.2	5.1	7.8	4.6	5.1	8.0
% Carbon Dioxide (calculated)	-	14.4	14.6	11.3	12.3	13.8	11.3	13.6	13.7	11.4	14.1	13.7	11.2
% N_2 + CO (calculated)	-	81.3	81.3	80.8	81.0	81.2	80.8	81.2	81.2	80.8	81.3	81.2	80.8
Stack Temp (Dry Bulb)	- °F	645		175	680		174	654		174	691		175
Stack Temp (Wet Bulb)	- °F												
"S" sample (rms vel head)	- " H_2O	NA	NA	0.563	NA	NA	0.570	NA	NA	0.640	NA	NA	0.604
Dust Wt.	- gm	1.1083	1.4034	0.0029	0.7789	0.8859	0.0030	0.7996	0.9397	0.0023	1.8167	0.9338	0.0022
Sample Volume	- DSCF	26.04	54.74	88.54	36.03	50.26	88.28	35.67	49.55	94.48	53.67	53.00	87.67
Sample Volume	- dscm	0.737	1.550	2.507	1.020	1.423	2.500	1.010	1.403	2.676	1.520	1.501	2.483
ABS Duct Pressure	- " Hg	29.13		29.51	29.22		29.62	29.20		29.62	29.18		29.59
ABS Duct Temperature	- °R	1105		635	1140		634	1114		634	1151		635
H_2O - % by Vol	- vapor	9.5	9.1	13.2	8.8	9.0	13.1	9.1	8.8	13.6	10.0	9.4	12.7
Water Volume	- std ft^3	2.73	5.50	13.47	3.48	4.94	13.26	3.55	4.80	14.86	5.97	5.52	12.73
Dry Molecular Weight	- lb/lb-mole	30.48	30.50	30.12	30.24	30.41	30.12	30.39	30.40	30.13	30.44	30.40	30.11
Wet Molecular Weight	- lb/lb-mole	29.29	29.36	28.52	29.16	29.30	28.54	29.26	29.30	28.48	29.20	29.23	28.57
% EXCESS AIR	-	25.4	23.8	59.4	45.4	30.3	58.7	32.0	31.2	57.6	27.3	31.2	60.0
Dry Mole Frac.	-	0.905	0.909	0.868	0.912	0.910	0.869	0.909	0.912	0.864	0.900	0.906	0.873
Wet Mole Frac.	-	0.095	0.091	0.132	0.088	0.090	0.131	0.091	0.088	0.136	0.100	0.094	0.127
Gas Velocity, Direct	- ft/sec			45.73			45.89			48.69			47.26
ACFM	-			364192			365461			387748			376376
DSCFM	-			259415			261988			276118			270408
DSCFM (rounded)				259400			262000			276100			270400
DSCMM				7347			7419			7820			7658
Excess Air Free DSCFM	-			160738			163084			173069			166903
CALCULATED FIRING RATE:													
Dry	- lb/min			1174			1191			1264			1218
Wet	- lb/min			1236			1246			1325			1269
Dry	- lb/hr			70456			71477			75852			73090
Wet	- lb/hr			74141			74766			79484			76143
CALCULATED FIRING RATE:													
Dry	- tons/hr			35.2			35.7			37.9			36.5
Wet	- tons/hr			37.1			37.4			39.7			38.1
HEAT INPUT:													
MM Btu/hr	-			999			998			1072			1026
PARTICULATE LOADING:													
Grains/DSCF	-			0.0005			0.0005			0.0004			0.0004
lb/hr	-			1.12			1.18			0.89			0.90
lb/MM Btu	-			0.0011			0.0012			0.0008			0.0009
% ISOKINETIC	-			102.5			101.2			102.8			97.4

Impinger Components Wts & Volumes	ECON-1	AHI-1	STK-1	ECON-2	AHI-2	STK-2	ECON-3	AHI-3	STK-3	ECON-4	AHI-4	STK-4
Filter Wt., g	1.1083	1.4034	0.0029	0.7789	0.8859	0.0030	0.7996	0.9397	0.0023	1.8167	0.9338	0.0022
ppm Hg (thimbles) or ug/filter (filters)	<0.01	<0.01	0.00	<0.01	<0.01	0.00	<0.01	<0.01	0.00	<0.01	<0.01	0.00
total ug	<0.01	<0.01	0.00	<0.00	<0.00	0.00	<0.00	<0.00	0.00	<0.01	<0.00	0.00
ug/dscm	<0.01	<0.00	0.00	<0.00	<0.00	0.00	<0.00	<0.00	0.00	<0.01	<0.00	0.00
Probe Rinse volume, ml	180	115	188	206	90	143	178	80	110	168	68	110
Analytical Hg, ng/ml	0.89	0.06	0.44	0.25	0.54	0.29	0.18	0.08	0.33	0.14	0.13	0.36
ug/dscm	0.22	0.00	0.03	0.05	0.03	0.02	0.03	0.00	0.01	0.02	0.01	0.02
Line Rinse volume, ml	158	125	87	150	100	120	245	192	153	127	147	107
Analytical Hg, ng/ml	0.40	1.92	0.11	0.21	6.82	0.04	0.25	3.10	0.10	0.24	0.87	0.03
ug/dscm	0.09	0.15	0.00	0.03	0.48	0.00	0.06	0.42	0.01	0.02	0.09	0.00
KCl volume, ml	498	540	706	510	538	706	506	534	738	545	545	698
Analytical Hg, ng/ml	2.83	14.90	0.15	3.68	11.70	0.32	7.00	13.00	0.06	6.23	14.40	0.13
ug/dscm	1.91	5.19	0.04	1.84	4.42	0.09	3.51	4.95	0.02	2.23	5.23	0.04
Nitric/Peroxide volume, ml	177	181	184	178	180	179	178	179	179	183	191	180
Analytical Hg, ng/ml	1.38	1.04	0.07	1.98	0.93	0.06	1.07	0.78	0.06	2.39	1.84	0.04
ug/dscm	0.33	0.12	0.00	0.35	0.12	0.00	0.19	0.10	0.00	0.29	0.23	0.00
KMnO4 volume, ml	251	254	252	252	251	250	253	251	251	257	242	248
Analytical Hg, ng/ml	1.90	1.44	0.02	2.41	0.88	0.02	3.22	0.90	0.02	27.20	4.68	0.05
ug/dscm	0.65	0.24	0.00	0.60	0.16	0.00	0.81	0.16	0.00	4.60	0.75	0.01
KMnO4-Acid Rinse volume, ml	100	100	100	100	100	100	100	100	100	100	100	100
Analytical Hg, ng/ml	0.12	0.22	0.04	0.16	0.27	0.04	0.38	0.12	0.04	0.86	0.31	0.03
ug/dscm	0.02	0.01	0.00	0.02	0.02	0.00	0.04	0.01	0.00	0.06	0.02	0.00
Particulate Hg (ug/dscm)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Oxidized Hg (ug/dscm)	2.21	5.35	0.08	1.92	4.94	0.11	3.60	5.38	0.04	2.27	5.32	0.05
Elemental Hg (ug/dscm)	0.99	0.37	0.01	0.96	0.29	0.01	1.03	0.27	0.01	4.94	1.01	0.01
Total Hg (ug/dscm)	3.21	5.72	0.09	2.88	5.23	0.12	4.63	5.65	0.05	7.22	6.33	0.06
Particulate Hg (ug/dscm @ 3% O2)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Oxidized Hg (ug/dscm @ 3% O2)	2.39	5.71	0.11	2.42	5.55	0.15	4.10	6.09	0.05	2.49	6.03	0.07
Elemental Hg (ug/dscm @ 3% O2)	1.07	0.40	0.01	1.20	0.33	0.01	1.18	0.30	0.01	5.43	1.14	0.01
Total Hg (ug/dscm @ 3% O2)	3.48	6.11	0.12	3.62	5.88	0.16	5.28	6.40	0.06	7.93	7.17	0.09

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	[illegible]
PLANT	AES Greenidge
LOCATION	Unit 6 Stack
DATE	[illegible]
OPERATOR(S)	[illegible]
AMBIENT TEMP [°F]	[illegible]
BAR. PRESS. [" Hg]	[illegible]

METER BOX	N-3
PITOT TUBE DESC	[illegible]
PROBE LENGTH [ft]	8
NOZZLE ID [inch]	[illegible]
%H_2O (Assumed)	8
FILTER ID	[illegible]
K FACTOR	[illegible]

CAL. DATA: delta H	[illegible]	Comments:	129.2 W
Y	[illegible]		0.0309 g
C(p)	[illegible]		
FILTER BOX SETTING	325		
PROBE HTR SETTING	325		
DUCT X-SECTION	circ ?	rect ?	other:
DUCT DIMENSIONS	13 ft	DUCT AREA	132.732 ft^2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	[illegible]	0					42.70								
B-5	[illegible]	8		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B-16-3/8"	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	61	57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B-30-1/4"	[illegible]	24		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	56	304	273	[illegible]	[illegible]	[illegible]	[illegible]
B-50-3/8"	[illegible]	32		[illegible]	[illegible]	4.5	[illegible]	[illegible]	55	307	273	[illegible]	52	0.1	14.0
	[illegible]						[illegible]								
C-5	[illegible]	40		[illegible]	[illegible]	[illegible]	69.73	72	66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C-16-3/8"	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	72	67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C-30-1/4"	[illegible]	56		[illegible]	[illegible]	[illegible]	[illegible]	72	65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
C-50-3/8"	[illegible]	64		[illegible]	[illegible]	[illegible]	56.46	[illegible]	65	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]						[illegible]								
D-5	[illegible]	72		[illegible]	[illegible]	[illegible]	[illegible]	76	69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.6
D-16-3/8"	[illegible]	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	70	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.4
D-30-1/4"	[illegible]	88		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.6
D-50-3/8"	[illegible]	96		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.7
	[illegible]						[illegible]								
A-5	[illegible]	104		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.6
A-16-3/8"	[illegible]	112	[illegible]	[illegible]		[illegible]	[illegible]	77	70	[illegible]	276	[illegible]	[illegible]	[illegible]	13.7
A-30-1/4"	[illegible]	120		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-50-3/8"	[illegible]	128		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AVERAGE			[illegible]	[illegible]	1.645		[illegible]		69.8	307.7				[illegible]	13.61

Sample Train Leak Checks: Pre Test [illegible] ft^3 @ [illegible] in. Hg; Post Test [illegible] ft^3 @ [illegible] in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 6 in. H_2O; Post Test [illegible] @ ____ in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	Two	METER BOX	N-1	CAL. DATA: delta H	1.481	Comments:	127.8ul
PLANT	AES Greenidge	PITOT TUBE DESC	E-6	Y	0.127		0.07782
LOCATION	Unit 6 Stack	PROBE LENGTH [ft]	8	C(p)	0.835		
DATE	11/17/04	NOZZLE ID [inch]	1/4" 0.279	FILTER BOX SETTING	325		
OPERATOR(S)	JMD RCC	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	58	FILTER ID	[illegible]	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.6	K FACTOR	2.75	DUCT DIMENSIONS	13 ft	DUCT AREA	132.732 ft^2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	[illegible]	0					137.50								
B-5	[illegible]	8		[illegible]	[illegible]	3.5	144.34	[illegible]	[illegible]	[illegible]	273	[illegible]	[illegible]	[illegible]	13.7
B-16-3/8"	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	321	[illegible]	[illegible]	[illegible]
B-30-1/4"	[illegible]	24		[illegible]	[illegible]	[illegible]	155.00	[illegible]	65	[illegible]	[illegible]	321	51	[illegible]	13.5
B-50-3/8"	[illegible]	32		0.53	1.45	3.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.5
	[illegible]						[illegible]								
C-5	[illegible]	40		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.5
C-16-3/8"	[illegible]	48	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71	71	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.6
C-30-1/4"	[illegible]	56		[illegible]	[illegible]	[illegible]	[illegible]	82	72	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.5
C-50-3/8"	[illegible]	64		[illegible]	[illegible]	[illegible]	182.89	73	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13.7
	[illegible]						183.10								
D-5	[illegible]	72		[illegible]	[illegible]	[illegible]	[illegible]	75	71	[illegible]	245	244	47	[illegible]	13.8
D-16-3/8"	[illegible]	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	71	301	244	[illegible]	47	[illegible]	13.1
D-30-1/4"	[illegible]	88		[illegible]	1.70	[illegible]	[illegible]	81	72	307	[illegible]	244	44	[illegible]	13.[illegible]
D-50-3/8"	[illegible]	96		[illegible]	1.70	4.0	205.43	81	72	[illegible]	251	256	41	[illegible]	13.7
	[illegible]						205.60								
A-5	[illegible]	104		0.58	1.55	4.0	[illegible]	75	71	[illegible]	[illegible]	223	44	[illegible]	13.1
A-16-3/8"	[illegible]	112	[illegible]	0.58	1.55	4.0	[illegible]	79	71	[illegible]	[illegible]	287	44	[illegible]	13.7
A-30-1/4"	[illegible]	120		0.56	1.55	4.0	[illegible]	74	71	[illegible]	[illegible]	[illegible]	50	6.4	13.7
A-50-3/8"	[illegible]	128		0.56	1.55	4.0	226.73	74	71	[illegible]	[illegible]	320	[illegible]	[illegible]	13.6
AVERAGE			-0.93	0.576	1.593		56.66		71.5	307.5				6.4	13.7

Sample Train Pre Test [illegible] ft^3 @ [illegible] in. Hg
Leak Checks: Post Test [illegible] ft^3 @ [illegible] in. Hg

Pitot Tube PreTest [illegible] @ [illegible] in. H_2O
Leak Checks: Post Test ____ @ ____ in. H_2O

CONSOLENERGY.

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	[illegible]	METER BOX	[illegible]	CAL. DATA: delta H	[illegible]
PLANT	AES Greenidge	PITOT TUBE DESC		Y	[illegible]
LOCATION	Unit 6 Stack	PROBE LENGTH [ft]	8	C(p)	[illegible]
DATE	[illegible]	NOZZLE ID [inch]		FILTER BOX SETTING	325
OPERATOR(S)	[illegible]	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	[illegible]	FILTER ID	7	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.40	K FACTOR	[illegible]	DUCT DIMENSIONS	13 ft / DUCT AREA 132.732 ft^2

Comments: 177.8 ml
0.0360 g

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]	[illegible]
	1:35	0					235.20									
B-5	14:46	8		0.53	1.45	3.5	240.40	65	62	307	275	334	47	6.9	13.3	
B-16-3/8"	14:54	16	-0.87	0.55	1.50	3.5	245.58	69	64	308	268	332	48	7.0	13.3	
B-30-1/4"	15:02	24		0.58	1.60	4.0	250.47	73	65	308	207	331	54	7.0	13.2	21.2
B-50-3/8"	15:10	32		0.55	1.50	4.0	256.19	74	66	308	274	331	55	7.0	13.2	20.1
	15:35						261.90									
C-5	15:43	40		0.57	1.55	4.0	264.46	74	68	310	240	298	49	6.7	13.5	21.2
C-16-3/8"	15:51	48	-0.97	0.68	1.55	4.0	273.34	78	69	312	241	310	51	6.7	13.6	
C-30-1/4"	15:59	56		0.66	1.65	4.0	277.52	79	70	311	260	318	52	6.6	13.6	20.9
C-50-3/8"	16:07	64		0.60	1.65	4.0	284.43	81	70	310	302	327	53	6.7	13.5	
	16:17						284.90									
D-5	16:25	72		0.60	1.65	4.0	290.45	80	72	308	343	344	52	7.0	13.2	21.6
D-16-3/8"	16:33	80	-0.92	0.68	1.65	4.0	296.26	84	73	309	312	347	51	6.8	13.4	20.1
D-30-1/4"	16:41	88		0.66	1.60	4.0	302.02	86	75	309	347	348	55	6.5	13.7	
D-50-3/8"	16:49	96		0.60	1.65	4.0	307.64	86	75	310	347	350	55	6.5	13.7	
	16:55						307.80									
A-5	17:03	104		0.56	1.55	4.0	313.08	85	75	309	334	348	54	6.9	13.6	21.1
A-16-3/8"	17:11	112	-0.86	0.56	1.55	4.0	318.39	85	76	309	342	348	53	6.4	13.8	20.1
A-30-1/4"	17:19	120		0.56	1.55	4.0	323.69	85	76	310	314	348	55	6.3	13.9	
A-50-3/8"	17:27	128		0.56	1.55	4.0	329.02	85	76	310	314	347	56	6.5	13.7	
AVERAGE			-0.905	0.584	1.019		87.44		75.0	309.3				6.69	13.51	

Sample Train Leak Checks: Pre Test [illegible] ft^3 @ -10 in. Hg; Post Test [illegible] ft^3 @ -10 in. Hg

Pitot Tube Leak Checks: PreTest [illegible] @ [illegible] in. H_2O; Post Test ____ @ ____ in. H_2O

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NOTE: Purge for 10 minutes at end of sampling.

[illegible]

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

Ports 3, 2, 1 — 35" — 35"

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TEST ID	ONE
PLANT	GREENIDGE
LOCATION	AIR HEATER OUTLET
DATE	3/28/07
OPERATOR(S)	R. ODA & D. OLSEN
AMBIENT TEMP [°F]	
BAR. PRESS. [" Hg]	29.83

METER BOX	N-1
PITOT TUBE DESC	E-3A : 0.84
PROBE LENGTH [ft]	12
NOZZLE ID [inch]	0.184
%H_2O (Assumed)	10%
FILTER ID	1026
K FACTOR	0.744

CAL. DATA: delta H	1.894
Y	0.970
C(p)	0.840
FILTER BOX SETTING	
PROBE HTR SETTING	
DUCT X-SECTION	circ ? rect ? other:
DUCT DIMENSIONS	DUCT AREA

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	(7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3) heated	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol]	CO_2 [% vol]
	0905	0					874.10								
1-2"	0912	7	-12.6	0.05	0.04	2.0	875.19	45	44	284	263	172	41		
1-2"		14	-12.95	0.05	0.04	2.0	876.33	46	45	289	275	172	40	6.7	13.5
1-6"		21	-12.62	0.75	0.56	2.5	879.18	47	45	294	284	177	39	6.7	13.5
1-6"		28	-12.95	0.75	0.56	2.5	882.98	49	46	294	284	180	38	6.6	13.7
1-10"		35	-13.61	1.1	0.83	4.0	885.18	50	46	296	278	184	39	6.4	13.8
1-10"		42		1.1	0.83	5.0	888.59	50	47	296	273	181	40	5.2	14.0
	1000						889.20								
2-2"		7 49	-12.68	0.30	0.22	2.0	891.38	51	48	285	250	180	40	7.1	13.1
2-2"		14 56	-13.0	0.30	0.22	2.0	893.26	51	48	291	260	182	40	7.1	13.1
2-6"		21 63	-12.26	0.78	0.58	4.0	896.16	52	49	293	279	178	41	6.9	13.3
2-6"		28 70	-13.0	0.78	0.58	4.5	899.03	54	49	293	284	178	40	6.8	13.4
2-10"		35 77	-13.49	1.3	0.94	6.0	902.59	55	50	295	281	177	41	6.2	14.0
2-10"		42 84	-12.47	1.3	0.96	7.0	906.26	56	50	295	284	180	41	6.2	14.0
	1050				0.61		907.10				269				
3-2"		7 91	-13.48	0.82	0.82	10.0	910.35	54	51	288	274	178	42	7.6	12.6
3-2"		14 98	-13.04	0.82	0.61	6.5	913.33	55	51	291	271	178	42	7.5	12.8
3-6"		21 105	-13.16	0.94	0.70	8.0	916.53	55	51	274 ⇔ 298		178	42	7.4	12.8
3-6"		28 112	-13.01	0.94	0.70	8.0	919.72	56	51	298	281	175	42	7.4	12.8
3-10"		35 119	-12.73	1.1	0.83	9.5	923.11	56	51	298	285	175	42	7.0	13.2
3-10"	1132	42 126	-13.52	1.1	0.83	10.5	926.50	56	51	298	259	178	43	7.0	13.2
AVERAGE			-12.94	0.719	0.592		50.95	50.3		293.2				6.9	13.3

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 16 in. Hg; Post Test <0.01 ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 9 in. H_2O; Post Test OK @ 9 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

Page ____ of ____

TEST ID	One	METER BOX	N-2	CAL. DATA: delta H	1.859
PLANT	GREENIDGE	PITOT TUBE DESC	E-1A : 0.835	Y	1.046
LOCATION	STACK	PROBE LENGTH [ft]	10	C(p)	0.835
DATE	3-28-07	NOZZLE ID [inch]	0.248	~~FILTER~~ BOX SETTING	NA
OPERATOR(S)	K. CERAR & B. SLIFER	%H_2O (Assumed)	10%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	45	FILTER ID	76	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.83	K FACTOR	2.94	DUCT DIMENSIONS / DUCT AREA	

Comments: Cond - 250.5

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	~~0905~~	0					~~640.70~~								
1 - 5"	0910	7.5		.58	1.70	5	648.00	43	40	173	203	210	38	—	—
1 - 16.38"		15		.62	1.85	5	653.31	44	40	175	206	211	38	9.2	11.0
1 - 30.25"		22.5	-.533	.58	1.70	5	658.67	48	42	175	201	211	41	9.2	11.0
1 - 50.38"		30		.58	1.70	5	663.90	48	42	176	202	210	43	—	—
					L.C.	OK →	664.10								
2 - 5"		37.5		.62	1.85	5	669.52	49	43	170	200	206	43	—	—
2 - 16.38"		45		.68	2.00	5.5	675.17	50	44	175	208	207	43	9.5	10.8
2 - 30.25"		52.5	-.582	.70	2.05	6	680.90	52	45	175	204	207	45	9.4	10.9
2 - 50.38"		60		.62	1.85	5.5	686.38	53	46	176	208	202	46	9.3	11.0
					L.C.	OK →	686.50								
3 - 5"		67.5		.54	1.58	4.5	691.56	52	47	177	209	216	43	—	—
3 - 16.38"		75		.58	1.70	5	696.78	53	47	174	202	218	43	9.4	10.9
3 - 30.25"		82.5	-.588	.58	1.70	5	701.98	54	48	175	206	219	42	9.5	10.8
3 - 50.38"		90		.54	1.58	5	707.05	55	48	178	200	220	43	9.4	10.9
					L.C.	OK →	707.20								
4 - 5"		97.5		.46	1.35	4	711.87	54	48	174	194	246	43	—	—
4 - 16.38"		105		.46	1.35	4	716.58	53	48	175	197	246	42	9.5	10.8
4 - 30.25"		112.5	-.545	.48	1.40	4	721.36	54	49	176	203	247	43	9.3	11.0
4 - 50.38"		120		.50	1.46	4.5	726.20	55	49	175	201	247	46	9.5	10.8
	1133			RMS											
AVERAGE			-0.562	0.563	1.676		82.93	46.6		174.9				9.4	10.9

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 6 in. Hg; Post Test <0.01 ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 6 in. H_2O; Post Test <0.01 @ 6 in. H_2O

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ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	2	METER BOX	N-1	CAL. DATA: delta H	1.894
PLANT	GREENIDGE	PITOT TUBE DESC	E-3A	Y	0.970
LOCATION	AIR HEATER OUTLET	PROBE LENGTH [ft]	12	C(p)	0.840
DATE	3/28/07	NOZZLE ID [inch]	0.184	FILTER BOX SETTING	
OPERATOR(S)	R. ODA & D. OLSEN	%H_2O (Assumed)	10%	PROBE HTR SETTING	
AMBIENT TEMP [°F]		FILTER ID	1027	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.85	K FACTOR	0.744	DUCT DIMENSIONS	(6) (7) / DUCT AREA (7) (3 wall) (5)

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1245	0					930.20							7.4	
1-2"		7	-12.58	0.10	0.07	1.0	931.51	49	48	295	246	132	042	7.1	12.5
1-2"		14	-13.14	0.10	0.07	1.0	932.75	50	49	298	261	141	42	7.0	13.2
1-6"		21	-13.24	1.1	0.83	4.0	935.71	51	49	301	273	149	41	6.7	13.6
1-6"		28	-13.08	1.1	0.83	4.0	939.10	52	49	301	281	154	40	6.6	13.6
1-10"		35	-13.39	1.1	0.87	5.0	942.49	54	49	303	286	160	40	6.3	13.8
1-10"		42	-13.59	1.1	0.83	5.0	945.90	55	50	303	292	160	41	6.3	13.8
							946.20								
2-2"		49	-12.03	0.38	.28	3.0	948.49	53	51	291	277	155	42	7.6	12.7
2-2"		56	-12.52	.38	.28	3.0	950.55	54	51	299	279	158	42	7.1	13.1
2-6"		63	-12.86	0.85	0.63	4.5	953.39	54	51	299	280	159	42	6.9	13.3
2-6"		70	-12.62	0.85	0.63	4.5	956.39	55	51	299	288	161	42	6.9	13.3
2-10"		77	-13.09	1.4	1.04	7.0	960.20	56	51	301	284	163	43	6.6	13.5
2-10"		84	-13.24	1.4	1.04	7.0	963.96	56	51	304	285	163	43	6.7	13.6
	1420						964.60								
3-2"		91	-13.93	0.72	0.53	6.0	967.58	54	51	287	272	155	43	7.6	12.6
3-2"		98	-12.73	0.72	0.53	6.0	970.32	55	51	298	277	158	43	7.5	12.7
3-6"		105	-13.78	0.95	0.70	7.5	973.36	55	52	305	287	159	44	7.4	12.8
3-6"		112	-13.18	0.95	0.70	8.0	976.52	56	52	305	287	160	44	7.4	12.8
3-10"		119	-13.28	1.1	0.83	10.0	979.92	57	51	304	290	167	44	7.0	13.2
3-10"	1502	126	-12.95	1.1	0.83	11.0	983.35	56	52	303	269	170	44	7.0	13.2
				0.742											
AVERAGE			-13.09	0.854	0.638		52.21	52.1		298.6				7.0	13.2

Sample Train Pre Test <0.01 ft^3 @ 10 in. Hg
Leak Checks: Post Test <0.01 ft^3 @ 12 in. Hg

Pitot Tube PreTest OK @ 7 in. H_2O
Leak Checks: Post Test OK @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	TWO	METER BOX	N-2	CAL. DATA: delta H	1.859	Comments:	
PLANT	GREENIDGE	PITOT TUBE DESC	E-1A=0.835	Y	1.046		
LOCATION	STACK	PROBE LENGTH [ft]	10	C(p)	0.835		
DATE	3-28-07	NOZZLE ID [inch]	0.248	FILTER BOX SETTING	NA		
OPERATOR(S)	K. CERAR & B. SLIFER	%H_2O (Assumed)	10%	PROBE HTR SETTING	250		
AMBIENT TEMP [°F]	44	FILTER ID	77	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.85	K FACTOR	2.94	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ HL (5) [°F]	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1243	0					733.30								
1 - 5"		7.5		.45	1.32	4	737.71	45	44	178	237	170	39	—	—
1 - 16.38"		15		.48	1.40	4	742.41	47	44	178	238	176	40	9.0	—
1 - 30.25"		22.5		.48	1.40	4	747.17	49	45	177	250	178	40	—	—
1 - 50.38"		30	.589	.54	1.58	5	752.22	50	45	177	245	168	42	9.1	11.2
					L.C.	OK →	752.30								
2 - 5"		37.5		.54	1.58	5	757.36	49	45	176	240	194	39	—	—
2 - 16.38"		45		.56	1.63	5	762.46	50	45	175	243	201	40	9.0	11.3
2 - 30.25"		52.5	.650	.60	1.76	5	767.77	50	45	175	238	198	41	9.1	11.2
2 - 50.38"		60		.56	1.63	5	772.91	51	46	175	243	197	42	9.0	11.3
					L.C.	OK →	773.80								
3 - 5"		67.5		.64	1.88	5.5	779.31	49	45	176	243	229	41	—	—
3 - 16.38"		75		.72	2.10	6	785.07	51	47	177	251	230	41	9.2	11.1
3 - 30.25"		82.5	.635	.72	2.10	6	790.87	52	47	177	246	232	42	9.2	11.1
3 - 50.38"		90		.64	1.88	6	796.40	53	47	176	247	231	43	9.2	11.1
					L.C.	OK →	796.60								
4 - 5"		97.5		.56	1.63	5	801.73	51	47	176	252	227	46	—	—
4 - 16.38"		105		.60	1.76	5	807.04	52	47	176	238	227	49	9.2	11.1
4 - 30.25"	K=2.75	112.5		.62	1.70	5	812.27	53	48	175	246	228	51	9.2	11.1
4 - 50.38"		120	.543	.58	1.58	5	817.37	54	48	175	242	245	52	9.2	11.1
	1507			Rms											
AVERAGE			0.604	0.578	1.683		82.90	48.2		176.2				9.1	11.2

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 8 in. Hg; Post Test <0.01 ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 6 in. H_2O; Post Test <0.01 @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	3	METER BOX	N-1	CAL. DATA: delta H	1.884	Comments:	10 min purge after test
PLANT	GREENIDGE	PITOT TUBE DESC	E-3A	Y	0.970		
LOCATION	AIR HEATER OUTLET	PROBE LENGTH [ft]	12	C(p)	0.840		
DATE	3/28/07	NOZZLE ID [inch]	0.184	FILTER BOX SETTING			
OPERATOR(S)	R. ODA & D. OLSEN	%H_2O (Assumed)		PROBE HTR SETTING			
AMBIENT TEMP [°F]		FILTER ID	1028	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.85	K FACTOR	0.744	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (8) inlet	(7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER~~ BOX [°F] (3)	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol]	CO_2 [% vol]
	1558	0					989.10								
1 - 2"		7		0.10	0.07	1.0	990.50	51	50	296	278	135	45	7.6	12.5
1 - 2"		14	-12.71	0.10	0.07	1.0	991.67	51	50	296	285	141	44	7.2	13.0
1 - 6"		21	-13.38	0.85	0.64	3.5	994.61	52	51	299	285	148	44	6.8	13.4
1 - 6"		28	-12.65	0.85	0.64	4.0	997.63	54	51	299	284	155	42	6.8	13.4
1 - 10"		35	-12.60	1.1	0.83	5.0	1001.02	55	51	300	289	156	42	6.6	13.0
1 - 10"		42	-12.91	1.1	.83	5.0	1004.47	56	51	301	299	157	43	6.4	13.0
	1645			~~0.75~~	~~0.56~~		5.00								
2 - 2"		7 49	-12.90	0.35	0.26	3.0	7.08	55	51	285	281	153	44	7.4	12.7
2 - 2"		14 56	-12.35	0.35	0.26	3.0	9.11	55	52	297	284	154	45	7.1	13.1
2 - 6"		21 63	-12.96	0.78	0.58	5.0	11.94	55	52	297	289	155	45	6.9	13.3
2 - 6"		28 70	-13.70	0.78	0.58	5.0	14.90	57	52	297	294	156	44	6.9	13.3
2 - 10"		35 77	-13.27	1.3	0.96	7.0	—	58	52	299	289	157	45	6.5	13.7
2 - 10"		42 84	-13.10	1.3	0.96	8.0	22.21	58	53	299	276	159	46	6.5	13.7
	1735			~~0.75~~	~~0.56~~		22.40								
3 - 2"		7 91	-13.05	0.75	0.56	4.5	25.39	56	53	290	281	149	47	7.5	12.7
3 - 2"		14 98	-12.86	0.75	0.56	5	28.19	57	53	295	285	153	47	7.5	12.7
3 - 6"		21 105	-13.07	0.97	0.72	6.0	31.39	58	53	300	291	153	46	7.2	13.0
3 - 6"		28 112	-13.69	0.97	0.72	6.5	34.59	58	54	301	298	154	47	7.3	12.9
3 - 10"		35 119	-12.00	1.1	0.83	8.0	38.04	58	54	302	293	157	47	7.1	13.1
3 - 10"		42 126		1.1	0.83	10.0	41.49	59	54	302	272	161	48	7.0	13.2
AVERAGE		126	-12.93	0.751	0.606		51.67	53.4		292.5				7.03	13.09

Sample Train Pre Test <0.01 ft³ @ 10 in. Hg — Pitot Tube PreTest OK @ 5 in. H_2O

Leak Checks: Post Test <0.01 ft³ @ 8 in. Hg — Leak Checks: Post Test OK @ 9 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	THREE
PLANT	GREENIDGE
LOCATION	STACK
DATE	3-28-07
OPERATOR(S)	K. CERAR & B. SLIFER
AMBIENT TEMP [°F]	~480
BAR. PRESS. [" Hg]	29.85

METER BOX	J-2
PITOT TUBE DESC	E-1A=0.835
PROBE LENGTH [ft]	10
NOZZLE ID [inch]	0.248
%H_2O (Assumed)	10%
FILTER ID	78
K FACTOR	~~2.54~~ 2.75

CAL. DATA: delta H	1.859
Y	1.046
C(p)	0.835
FILTER BOX SETTING	~A
PROBE HTR SETTING	250
DUCT X-SECTION	circ ? / rect ? / other:
DUCT DIMENSIONS	
DUCT AREA	

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft³] 823.60	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ [°F] H4 (5)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1600	0					~~823.60~~								
1 - 5"		7.5		.54	1.48	6	828.54	49	47	172	246	262	50	—	—
1 - 16.38"		15		.60	1.63	6	833.67	51	47	174	242	251	47	9.1	11.2
1 - 30.25"		22.5	-.533	.60	1.63	6	838.78	54	48	174	240	253	50	9.0	11.3
1 - 50.38"		30		.56	1.52	6	843.78	54	48	174	249	253	51	9.0	11.3
					L.C.	OK→	843.90								
2 - 5"		37.5		.64	1.75	6.5	849.22	53	48	173	252	226	46	—	—
2 - 16.38"		45		.66	1.80	7	854.61	54	49	174	252	222	43	9.4	10.9
2 - 30.25"		52.5	-.627	.70	1.90	7	860.11	54	49	174	248	223	44	9.1	11.2
2 - 50.38"		60		.60	1.63	6.5	865.27	55	49	175	240	241	42	9.2	11.1
					L.C.	OK→	865.40								
3 - 5"		67.5		.54	1.48	6	870.31	54	49	174	244	216	39	—	—
3 - 16.38"		75		.60	1.63	6	875.46	55	50	175	248	215	38	9.1	11.2
3 - 30.25"		82.5	-.600	.60	1.63	6	880.62	56	50	175	243	210	39	9.2	11.1
3 - 50.38"		90		.54	1.48	6	885.57	56	50	175	237	209	39	9.2	11.1
					L.C.	OK→	885.70								
4 - 5"		97.5		.44	1.20	~~OK 5~~	890.13	54	50	174	245	238	40	—	—
4 - 16.38"		105		.46	1.26	5	894.68	55	50	175	250	236	39	9.2	11.1
4 - 30.25"		112.5	-.547	.48	1.30	5	899.40	56	50	176	240	234	40	9.1	11.2
4 - 50.38"		120		.52	1.40	5.5	904.13	56	51	176	250	234	39	9.2	11.1
	1814														
AVERAGE			-.577	0.565	1.55		80.15	51.6		174.4				9.11	11.11

Sample Train Leak Checks: Pre Test <0.01 ft³ @ 10 in. Hg; Post Test <0.01 ft³ @ 10 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 6 in. H_2O; Post Test <0.01 @ 6 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	4
PLANT	GREENIDGE
LOCATION	AIR HEATER OUTLET
DATE	3/30/07
OPERATOR(S)	R. ODA & D. OLSEN
AMBIENT TEMP [°F]	
BAR. PRESS. [" Hg]	29.80

METER BOX	N-1
PITOT TUBE DESC	
PROBE LENGTH [ft]	12
NOZZLE ID [inch]	
%H_2O (Assumed)	
FILTER ID	1032
K FACTOR	0.744

CAL. DATA: delta H	1.894		
Y	0.970		
C(p)			
FILTER BOX SETTING			
PROBE HTR SETTING			
DUCT X-SECTION	circ ?	rect ?	other:
DUCT DIMENSIONS		DUCT AREA	

Comments: Rinsed Probe + Sample line Before Testing - 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3)	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0655	0					143.40								
1-2"		7	-13.26	0.1	0.07	1.0	144.21	38	36	293	285	136	36	7.4	12.7
1-2"		14	-12.34	0.1	0.07	1.0	145.35	39	37	293	289	139	36	7.3	12.9
1-6"		21	-12.75	.85	.63	3.5	148.07	40	37	297	292	147	37	6.8	13.4
1-6"		28	-13.50	.83	0.63	3.5	151.07	43	39	297	288	151	37	6.8	13.4
1-10"		35	-13.84	1.0	0.76	5.0	154.30	46	40	299	281	151	37	6.7	13.5
1-10"		42	-13.13	1.0	0.76	5.0	157.41	47	41	299	265	151	38	6.6	13.5
							157.90								
2-2"		49	-12.61	3.0	.22	3.0	159.94	47	41	290	249	148	37	7.6	12.5
2-2"		56	-12.72	3.0	.22	3.0	161.82	47	43	294	244	150	39	7.4	12.9
2-6"		63	-12.93	.80	.59	4.5	164.66	48	44	295	269	151	39	6.9	13.3
2-6"	1010	70	-13.67	.80	.59	4.5	167.57	50	44	295	270	154	40	6.8	13.4
2-10"		77	-13.19	1.4	1.03	6.0	172.29	52	45	298	265	153	40	6.4	13.8
2-10"		84	-13.24	1.4	1.03	6.5	175.06	54	47	298	269	156	42	6.4	13.8
							175.30								
3-2"		91	-13.22	.72	.54	4.0	178.09	53	47	291	270	147	42	7.6	12.5
3-2"		98	-13.11	.72	.54	5.0	180.97	54	48	292	273	147	42	7.4	12.9
3-6"		105	-13.50	.98	.74	5.5	184.20	55	49	296	275	147	42	7.4	12.9
3-6"		112	-13.22	.98	.74	6.0	187.39	54	50	296	287	150	44	7.5	12.6
3-10"		119	-13.84	1.1	.83	7.0	190.80	57	51	297	286	151	44	7.2	13.8
3-10"	1110	126		1.1	.83	8.0	194.19	58	51	297	253	152	44	7.1	13.2
AVERAGE			-13.18	0.742	0.601		50.26	46.5		295.4				7.1	13.1

Sample Train Leak Checks: Pre Test <0.01 ft³ @ 10 in. Hg; Post Test <0.01 ft³ @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 8 in. H_2O; Post Test OK @ 5 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	FOUR	METER BOX	N-2	CAL. DATA: delta H	1.895
PLANT	GREENIDGE	PITOT TUBE DESC	E1	Y	0.967
LOCATION	STACK	PROBE LENGTH [ft]	10	C(p)	
DATE	3-30-07	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	K. CERAR & B. SLIFER	%H_2O (Assumed)	10%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~30°	FILTER ID	82	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.80	K FACTOR	2.60	DUCT DIMENSIONS / DUCT AREA	

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ [°F] HL (5)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0855	0					060.20								
1-5"		7.5		0.54	1.40	4	065.10	36	32	172	250	221	37	—	—
1-16.38"		15		.56	1.45	4	070.17	43	34	173	242	232	38	8.7	11.6
1-30.25"		22.5	-.496	.56	1.45	4	074.97	47	36	174	255	224	40	8.8	11.5
1-50.38"		30		.54	1.40	4	079.67	51	38	174	239	221	43	8.7	11.6
					L.C.	OK→	079.80		~~41~~						
2-5"		37.5		.66	1.73	5	085.07	53	41	174	239	239	41	—	—
2-16.38"		45		.66	1.73	5	090.37	57	43	174	245	242	44	9.3	11.0
2-30.25"		52.5	-.535	.66	1.73	5	095.66	59	45	176	249	244	46	9.2	11.1
2-50.38"		60		.60	1.55	4.5	100.73	60	46	176	244	245	48	9.3	11.0
					L.C.	OK→	100.80								
3-5"		67.5		.60	1.55	4.5	105.80	59	49	174	249	248	45	—	—
3-16.38"		75		.60	1.55	4.5	110.84	61	50	175	247	249	46	8.9	11.4
3-30.25"		82.5	-.504	.60	1.55	4.5	115.89	62	51	175	245	249	46	9.0	11.3
3-50.38"		90		.56	1.45	4	120.78	63	52	175	243	247	47	9.0	11.3
					L.C.	OK→	120.90								
4-5"		97.5		.42	1.08	3.5	125.17	60	53	174	238	254	46	—	—
4-16.38"		105		.46	1.19	4	129.62	61	53	174	244	254	46	9.0	11.3
4-30.25"		112.5	-.438	.50	1.30	4	134.24	62	53	175	245	254	46	9.0	11.3
4-50.38"		120		.50	1.30	4	138.86	62	53	175	248	260	47	8.9	11.4
	1110														
AVERAGE			-0.493	0.562	1.46		78.34	~~52.8~~ 50.8		174.4				9.0	11.3

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 6 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	5	METER BOX	N-1	CAL. DATA: delta H	1.894
PLANT	GREENIDGE	PITOT TUBE DESC		Y	0.970
LOCATION	AIR HEATER OUTLET	PROBE LENGTH [ft]	12	C(p)	
DATE	3/30/07	NOZZLE ID [inch]		FILTER BOX SETTING	
OPERATOR(S)	R. ODA & D. OLSEN	%H_2O (Assumed)		PROBE HTR SETTING	
AMBIENT TEMP [°F]		FILTER ID	1033	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.77	K FACTOR	0.744	DUCT DIMENSIONS	DUCT AREA

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft³]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3)	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1243	0					199.50								
1 - 2"		7	-12.90	0.10	0.07	1.0	200.82	52	51	279	284	207	46	8.1	12.1
1 - 2"		14	-13.71	0.10	0.07	1.0	201.98	53	52	289	~~206~~ 205	204	44	8.1	12.1
1 - 6"		21	-13.07	0.88	0.66	3.5	204.91	54	53	299	298	206	44	7.4	12.8
1 - 6"		28	-12.69	0.88	.066	3.5	207.99	54	53	299	297	208	42	7.2	12.9
1 - 10"		35	-13.71	1.1	0.83	4.5	211.47	59	54	302	~~302~~ 296	209	43	6.9	13.3
1 - 10"		42	-13.42	1.1	0.83	5.0	214.95	60	54	300	298	207	44	6.6	13.5
	1329						215.20								
2 - 2"		7 49	-12.79	.40	.30	3.0	217.47	60	55	289	290	217	46	7.6	12.6
2 - 2"		14 56	-13.05	.40	.30	3.0	—	60	56	296	294	210	46	7.2	12.9
2 - 6"		21 63	-13.22	.80	.60	4.5	222.45	61	57	297	298	211	44	7.0	13.1
2 - 6"	1357	28 70		.80	.60	5.0	225.44	62	57	297	295	211	46	6.9	13.3
2 - 10"		35 77	-13.61	1.4	1.04	7.0	229.19	64	58	300	297	212	46	6.4	13.7
2 - 10"		42 84		1.4	1.04	8.0	232.99	64	58	302	297	212	47	6.7	13.5
	1420						233.40							7.6	
3 - 2"		7 91	-13.65	.80	.60	4.5	236.46	62	59	289	289	216	48	[illegible]	12.6
3 - 2"		14 98		.80	.60	5.0	239.38	64	60	296	294	214	47	7.6	12.6
3 - 6"		21 105	-12.94	.92	.68	6.0	242.54	65	60	299	295	211	49	7.3	12.9
3 - 6"		28 112		.92	.68	6.0	245.70	65	60	299	295	210	48	7.3	12.9
3 - 10"		35 119	-13.43	1.1	0.83	8.0	249.14	65	60	300	294	206	48	7.1	13.1
3 - 10"		42 126		1.1	0.83	9.5	252.62	65	60	300	294	203	48	7.0	13.2
AVERAGE			-13.25	0.774	0.623		52.46	58.5		296.2				7.2	13.0

Sample Train Leak Checks: Pre Test <0.01 ft³ @ 10 in. Hg; Post Test <0.01 ft³ @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 6 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOL ENERGY.

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	FIVE	METER BOX	N2	CAL. DATA: delta H	1.895
PLANT	GREENIDGE	PITOT TUBE DESC	E1	Y	0.967
LOCATION	STACK	PROBE LENGTH [ft]	10	C(p)	
DATE	3-30-07	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	K. CERAR & B. SLIFER	%H_2O (Assumed)	10%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	45°	FILTER ID	83	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.77	K FACTOR	2.60	DUCT DIMENSIONS / DUCT AREA	

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ HL (5) [°F]	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1243	0					145.00								
1 - 5"		7.5		.46	1.18	3.5	149.47	51	49	173	244	221	44	—	—
1 - 16.38"		15		.50	1.30	4	154.03	56	50	174	252	224	44	8.8	11.4
1 - 30.25"		22.5	-.451	.50	1.30	4	158.62	59	51	175	254	226	45	9.0	11.3
1 - 50.38"		30		.52	1.35	4	163.32	63	53	175	249	228	46	9.0	11.3
					L.C.	OK→	163.45								
2 - 5"		37.5		.58	1.50	4	168.43	64	54	174	252	232	45	—	—
2 - 16.38"		45		.70	1.80	5	173.86	67	56	175	248	231	46	8.8	11.5
2 - 30.25"		52.5	-.544	.60	1.56	4.5	178.97	70	58	175	253	231	44	8.8	11.5
2 - 50.38"		60		.58	1.50	4.5	183.95	71	60	175	241	231	44	8.8	11.5
					L.C.	OK→	184.05								
3 - 5"		67.5		.70	1.80	5	189.52	70	61	175	251	244	45	—	—
3 - 16.38"		75		.74	1.92	5	195.13	73	62	175	255	251	47	8.9	11.4
3 - 30.25"		82.5	-.528	.74	1.92	5	200.76	75	63	175	249	256	48	9.0	11.3
3 - 50.38"		90		.62	1.62	5	206.00	75	64	175	252	258	50	8.9	11.3
					L.C.	OK→	206.10								
4 - 5"		97.5		.58	1.50	4.5	211.13	73	65	175	241	246	52	—	—
4 - 16.38"		105		.60	1.56	4.5	216.24	75	66	175	252	247	52	8.9	11.3
4 - 30.25"		112.5	-.578	.60	1.56	4.5	221.35	76	66	176	243	247	52	8.9	11.3
4 - 50.38"		120		.58	1.50	4.5	226.38	77	68	176	247	248	54	8.9	11.3
	1454														
AVERAGE			-0.525	0.597	1.554		81.05	63.8		174.9				8.9	11.4

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 6 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	6	METER BOX	N-1	CAL. DATA: delta H	1.894	Comments:	10 min purge after test
PLANT	GREENIDGE	PITOT TUBE DESC		Y	0.970		
LOCATION	AIR HEATER OUTLET	PROBE LENGTH [ft]	12	C(p)			
DATE		NOZZLE ID [inch]		FILTER BOX SETTING			
OPERATOR(S)	R. ODA & D. OLSEN	%H_2O (Assumed)		PROBE HTR SETTING			
AMBIENT TEMP [°F]		FILTER ID	1036	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.71	K FACTOR	0.744	DUCT DIMENSIONS		DUCT AREA	

97.2 H_2O

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER~~ BOX [°F] (3)	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1552	0					255.80								
1-2"		7	-13.16	0.10	0.07	1.0	256.84	57	58	288	249	137	54	—	—
1-2"		14	-12.93	0.10	0.07	1.0	257.90	58	58	300	274	142	52	7.2	13.0
1-6" low		21	-12.74	0.88	0.66	3.5	260.88	59	58	304	284	147	48	6.6	13.6
1-6" port		28		0.88	0.66	3.5	264.01	60	58	303	286	152	45	6.6	13.6
1-10"		35	-13.64	0.96	0.72	5.0	267.28	62	58	305	296	156	44	6.2	13.9
1-10"		42		0.96	0.72	5.5	270.57	63	58	305	297	159	46	6.2	13.9
	1639						270.90								
2-2"	@	49	-12.23	0.37	0.27	3.0	273.04	62	58	296	289	158	46	7.4	12.7
2-2"		56		0.37	0.27	3.5	275.09	62	59	300	292	159	47	7.0	13.2
2-6" mid		63	-12.66	0.80	0.60	4.5	278.06	62	59	300	297	159	46	6.8	13.4
2-6" port		70		0.80	0.60	5.0	281.06	63	59	300	298	159	44	6.9	13.3
2-10"		77	-12.77	1.4	1.03	7.0	284.81	63	59	303	299	159	44	6.3	13.7
2-10"		84		1.4	1.03	7.5	288.60	64	59	303	298	160	44	6.4	13.8
	1725						289.00								
3-2"		91	-12.93	0.73	0.54	4.5	291.85	63	59	292	297	156	45	7.6	12.7
3-2"		98		0.73	0.54	5.0	294.73	63	59	295	297	155	45	7.6	12.7
3-6" high		105	-12.73	0.80	0.66	6.0	297.92	64	59	299	297	155	44	7.3	12.9
3-6" port		112		.95	.70	6.5	301.13	64	59	292	297	155	44	7.3	12.9
3-10"		119	-12.57	1.10	.83	9.0	304.59	64	59	292	296	157	45	7.1	13.2
3-10"	1805	126		1.10	0.83	9.0	308.07	64	60	293	297	158	45	7.0	13.2
				PMS											
AVERAGE		126	-12.84	.750	.402		51.54	60.4		298.3				6.92	13.28

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 10 in. Hg; Post Test <0.01 ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 8 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING FIELD DATA SHEET

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TEST ID	SIX	METER BOX	~2	CAL. DATA: delta H	1.895
PLANT	GREENIDGE	PITOT TUBE DESC	E1	Y	0.967
LOCATION	STACK	PROBE LENGTH [ft]	10	C(p)	
DATE	3-30-07	NOZZLE ID [inch]		FILTER BOX SETTING	~A
OPERATOR(S)	K. CERAR & B. SLIFER	%H_2O (Assumed)	10%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~60°	FILTER ID	84	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.71	K FACTOR	2.60	DUCT DIMENSIONS / DUCT AREA	

Comments: 230.1 H_2O

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ HL [°F] (5)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1552	0					232.60								
1 - 5"		7.5		.62	1.62	5	237.76	63	63	172	245	208	49	—	—
1 - 16.38"		15		.62	1.62	5	242.90	67	62	174	250	212	46	9.5	10.8
1 - 30.25"		22.5	-.571	.60	1.58	5	248.01	68	62	176	249	212	51	9.4	10.9
1 - 50.38"		30		.58	1.50	5	252.98	70	62	175	238	215	54	9.3	11.0
					L.C.	OK→	253.10								
2 - 5"		37.5		.68	1.75	6	258.50	67	61	174	242	231	50	—	—
2 - 16.38"		45		.70	1.80	6	263.90	70	62	174	253	233	52	8.9	11.4
2 - 30.25"		52.5	-.638	.70	1.80	6	269.37	71	62	175	253	233	53	8.8	11.5
2 - 50.38"		60		.60	1.58	5.5	274.49	71	62	175	249	232	53	8.7	11.5
					L.C.	OK→	274.60								
3 - 5"		67.5		.60	1.58	5.5	279.73	68	62	175	236	232	50	—	—
3 - 16.38"		75		.60	1.58	5.5	284.86	69	61	175	249	230	49	9.0	11.3
3 - 30.25"		82.5	-.508	.60	1.58	5.5	290.00	69	61	175	251	232	48	8.9	11.4
3 - 50.38"		90		.58	1.50	5.5	295.00	71	62	175	237	233	48	8.9	11.4
					L.C.	OK→	295.10								
4 - 5"		97.5		.44	1.14	4	299.47	69	62	174	244	234	46	—	—
4 - 16.38"		105		.46	1.18	4.5	303.94	70	62	174	249	243	45	8.9	11.3
4 - 30.25"		112.5	-.470	.46	1.18	4.5	308.40	71	62	174	252	242	45	9.0	11.3
4 - 50.38"		120		.50	1.28	5	313.00	71	63	174	242	241	46	9.0	11.3
	1803			ems											
AVERAGE			-.547	0.581	1.517		80.07	65.5		174.4				9.03	11.26

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 6 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	Run One	METER BOX	N-3	CAL. DATA: delta H	1.859
PLANT	AES Greenidge	PITOT TUBE DESC	E-3	Y	1.046
LOCATION	SCR Inlet	PROBE LENGTH [ft]	10	C(p)	.840
DATE	10/2/2007	NOZZLE ID [inch]	.276 11/32 A	FILTER BOX SETTING	NA
OPERATOR(S)	BG, DL, KE	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	≈ 90°	FILTER ID	1073	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]		K FACTOR	2.72	DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet 6	METER TEMP [oF] outlet 7	STACK TEMP [°F] 1	PROBE TEMP [°F] 2	FILTER BOX [°F] 3	LAST IMP TEMP [°F] 4	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
										646					
0				0.17	0.46	5	95.221	93	93	~~[illegible]~~	280	203	67		
10				0.21	0.56	7	98.84	94	93	682	333	204	68		
20				0.21	0.56	10	102.73	95	92	685	330	204	63	4.0	16.0
30				0.21	0.56	12	106.55	96	93	685	327	205	65		
40	changed filter			0.21	0.56	15	110.595	96	93	683	336	205	65		
50				0.50	1.30	17	115.23	98	93	655	330	204	63	4.4	
60	55			0.50	1.30	20	118.06	98	93	654	333	204	62		
70	65			0.30	0.82	5	123.73	99	95	641	339	210	64		
80	75		-6.5	0.30	0.82	10	127.87	100	95	642	338	209	63	3.8	
90	85			0.30	0.82	12	132.65	101	95	642	337	211	66		
100	95			0.30	0.82	13	137.43	101	96	642	331	209	67		
110	105			0.30	0.82	14	142.21	101	96	642	326	209	68		
120	115			0.30	0.82	15	148.24	100	96	642	324	209	69		
AVERAGE				.2153	.7862		52.019		95.96	657					

Sample Train Leak Checks: Pre Test .002 ft^3 @ 15 in. Hg; Post Test .002 ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O; Post Test ✓ @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

O_2 4.3

CO_2 15.8

OUT

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	Run One	METER BOX	N-5	CAL. DATA: delta H	1.883	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E-15	Y	.991		
LOCATION	SCR Outlet	PROBE LENGTH [ft]	10	C(p)	.823		
DATE	10/2/2007	NOZZLE ID [inch]	~~.274~~ .276	FILTER BOX SETTING	NA		
OPERATOR(S)	BG, DL, KE	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	≈ 90°	FILTER ID	1074	DUCT X-SECTION	circ ? / rect ? / other:		
BAR. PRESS. [" Hg]		K FACTOR	2.64	DUCT DIMENSIONS / DUCT AREA			

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F] 1	PROBE TEMP [°F] 2	FILTER BOX [°F] 3	LAST IMP TEMP [°F] 4	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	00			.17	.44	1.0	288.916	83	83	653	224	180	60	4.3	15.8
	10			.17	.44	2.0	292.575	82	84	655	325	171	56		
	20			.17	.44	3.0	296.450	84	84	681	323	183	54		
	30			.17	.44	4.0	299.900	84	84	681	326	187	54	4.7	
	40			.17	.44	5.0	303.530	84	85	681	324	186	56		
	50			.17	.44	6.5	307.195	85	86	662	326	191	56		
	60			.17	.44	8.0	310.820	86	86	661	327	193	56		
	70			.17	.44	11.0	314.432	86	86	659	324	192	54	4.5	
	80			.17	.44	14.0	318.060	86	86	660	322	193	56		
	90			–	–	–	321.681	–	–	–	–	–	–		
	100														
	110														
	120														
										665.89					
AVERAGE			RMS	.149	.44		32.765		84.67	~~84.67~~				4.5	15.8

Sample Train Leak Checks: Pre Test 0.008 ft^3 @ 15 in. Hg; Post Test 0.006 ft^3 @ 14.0 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O; Post Test ✓ @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	#1	METER BOX	N-1	CAL. DATA: delta H	1.984
PLANT	AES Greenidge	PITOT TUBE DESC	E-5	Y	0.970
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10'	C(p)	0.827
DATE	10-2-07	NOZZLE ID [inch]	316C-0.194	FILTER BOX SETTING	~~325~~
OPERATOR(S)	BS, BJ	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	~70°	FILTER ID	10752-77	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.62	K FACTOR	0.973	DUCT DIMENSIONS / DUCT AREA	

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] H.L. (5)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1505	0					346.60								
24"		13.3		.80	.78	4.5	353.08	70	69	303	296	240	59	7.4	12.8
72"		26.6	-15.0	1.10	1.07	6	360.41	73	69	314	300	239	58	7.4	12.8
120"		40.0		1.10	1.07	7	368.01	77	71	312	288	241	59	6.9	13.3
24"		53.3		.32	.31	4.5	372.63	76	71	302	290	242	63	7.2	13.0
72"		66.6	-14.2	.85	.83	8	379.30	77	73	303	297	237	59	6.8	13.4
120"		80.0		1.20	1.17	14	387.22	79	73	303	300	236	56	6.5	13.6
							387.60	FILTER CHANGE 1077 ALL "OK"							
24"		93.3		.11	.09	2.5	390.08	77	74	300	294	240	62	7.4	12.8
72"		106.6	-14.2	0.98	0.97	5	397.22	79	75	307	280	237	56	6.8	13.4
120"		120.0		1.1	1.07	7	404.45	81	75	307	282	236	57	6.5	13.6
	1721														
24"															
72"															
120"															
AVERAGE				.7794	.7178		6085		74.4	305.7				7.0	13.19

Sample Train Leak Checks: Pre Test 0K ft^3 @ 10 in. Hg; Post Test 0K ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest 0K @ 7 in. H_2O; Post Test 0K @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	Test 1	METER BOX	2	CAL. DATA: delta H	1.875
PLANT	AES Greenidge	PITOT TUBE DESC	1/4" D-0243	Y	0.967
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.833
DATE	10-2-07	NOZZLE ID [inch]	0.243	FILTER BOX SETTING	NA
OPERATOR(S)	JM + KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	62	FILTER ID	108	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.62	K FACTOR	3.11	DUCT DIMENSIONS / DUCT AREA	

Comments: purge @ 1.9 "H2O for 10 min

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (5) HL	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					382.519								
-5	1505	7.5		.55	1.7	5	388.550	64	63	174	246	~~244~~ 230	53	7.3	12.9
-16.4		15		.60	1.9	5	394.125	66	64	173	244	240	52	7.3	12.9
-30.3		22.5	-.50	.65	2.0	5	399.875	70	64	175	245	240	52	7.3	12.9
-50.4	1535	30		.75	2.3	5	406.383	72	65	191	253	231	52	7.2	13.0
			3.188	~~2.55~~	7.9				528	713					
	1542	37.5		.63	2.0	5	412.410	75	67	170	249	232	56	7.3	12.9
		45.0		.70	2.2	5	418.820	77	68	172	249	234	52	7.3	12.9
		52.5	-.55	.75	2.3	5	425.164	82	70	173	252	234	54	7.4	12.8
	1612	60.0		.75	2.3	6	431.393	82	70	177	253	236	54	7.4	12.8
				6.550	16.7		431.509		1119	1405	Leak ✓ = .001 @ 7" Hg				
~~[illegible]~~	1620	67.5		.50	1.6	4		85	72	168	248	231	56	Dry	436.265
~~[illegible]~~		75.0		.60	1.9	5	442.750	81	73	187	248	239	51	7.4	12.8
		82.5	-.50	.63	2.0	5	449.030	82	73	180	249	238	51	7.4	12.8
	1650	90.0		.60	1.9	6	454.563	83	74	174	247	243	53	7.4	12.8
				9.600	24.1				1742	2114					
	1655	97.5		.48	1.4	5	459.612	82	76	170	249	244	56	7.4	12.9
		105.0		.50	1.6	~~5~~ 7	465.285	82	75	183	247	239	56	7.3	12.9
		112.5	-.46	.50	1.6	5	470.750	83	76	180	246	241	52	7.2	13.0
	1725	120.0		.55	1.7	5	476.293	84	76	191	248	242	52	7.2	13.0
AVERAGE			SQP = .7769		1.9		93.658		74.25	177.4				7.3	12.9

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 6 in. Hg; Post Test .002 ft^3 @ 8 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 7 in. H_2O; Post Test ____ @ ____ in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOLENERGY

RMS: .603

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	RUN TWO	METER BOX	N-3	CAL. DATA: delta H	1.859	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E-3	Y	1.046		
LOCATION	SCR Inlet	PROBE LENGTH [ft]	10	C(p)	.840		
DATE	10/3/07	NOZZLE ID [inch]	.250	FILTER BOX SETTING	NA		
OPERATOR(S)		%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]		FILTER ID		DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.44	K FACTOR	1.76	DUCT DIMENSIONS		DUCT AREA	

HEATED LINE

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet 6	METER TEMP [oF] outlet 7	STACK TEMP [°F] 1	PROBE TEMP [°F] 2	FILTER BOX 5 [°F] 3	LAST IMP TEMP [°F] 4	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
0	12:30			0.20	0.35	3	161.83	96	96	662	325	121	90	5.1	
10				0.20	0.35	3	164.98	97	96	673	331	117	71		
20				0.29	0.51	4	168.55	98	96	678	325	118	63		
30				0.29	0.51	5	172.36	100	97	679	342	120	61		
40	500	BLOWING		0.37	0.65	6	176.58	101	98	643	330	121	60		
50			-6.5	0.37	0.65	8	180.91	102	98	644	324	121	58	3.5	
60				0.37	0.65	9	185.22	102	98	645	332	123	58		
70				0.37	0.65	9	189.32	102	99	645	333	123	60		
80				0.37	0.65	10	193.03	103	99	645	327	124	60	3.5	
90				0.30	0.53	13.5	197.07	104	100	638	335	123	60		
100	1410			0.30	0.53	16.5	200.83	104	101	639	327	123	60		
110															
120															
AVERAGE			-6.5	0.303	0.548		39.00	99.4		653.7				4.0	

Sample Train Leak Checks: Pre Test .001 ft^3 @ 15 in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	RUN TWO	METER BOX	N-5	CAL. DATA: delta H	1.883
PLANT	AES Greenidge	PITOT TUBE DESC	E-15	Y	.991
LOCATION	SCR Outlet	PROBE LENGTH [ft]	10	C(p)	.823
DATE	10\3\07	NOZZLE ID [inch]	.250	FILTER BOX SETTING	NA
OPERATOR(S)		%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]		FILTER ID		DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.44	K FACTOR	1.76	DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	00	1230		.15	.26	1.0	327.439	87	87	674	325	220	60	4.4	
	10			.15	.26	1.0	330.375	87	87	675	327	229	62	[illegible]	
	20			.16	.28	2.0	333.306	88	89	676	324	233	60		
	30			.16	.28	3.0	336.325	89	90	676	321	233	60		
Soot Blow	40		-8.0	.17	.30	4.0	339.330	89	90	681	322	215	58	3.9	
	50			.17	.30	5.0	342.410	90	90	684	325	214	57		
	60			.16	.28	5.0	345.520	90	90	685	325	214	57		
	70			.16	.28	6.0	348.540	91	91	685	320	215	57	4.0	
	80			.18	.32	8.0	351.525	91	91	679	327	216	57		
	90			.18	.32	10.0	354.735	92	92	679	327	216	57		
	100			.18	.32	12.0	358.000	92	92	680	327	216	57		
	110			.18	.32	15.0	361.175	92	92	680	327	214	58		
	120	1430	-	-	-	-	361.301	-	-	-	-	-	-		
		1423													
				RMS											
				0.166											
PAGE			-8.0	0.142	0.293		33.862	90.0		679.5				4.1	

Sample Train Pre Test 0.007 ft^3 @ 15 in. Hg

Leak Checks: Post Test ____ ft^3 @ ____ in. Hg

Pitot Tube PreTest ____ @ ____ in. H_2O

Leak Checks: Post Test ____ @ ____ in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	#2	METER BOX	2-1	CAL. DATA: delta H	1.984	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E-X12	Y	0.970		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	8 ~~8'~~	C(p)	0.827		
DATE	10-3-07	NOZZLE ID [inch]	3/16 0.184	FILTER BOX SETTING	~~325~~ 325		
OPERATOR(S)	BS, BH	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	~73	FILTER ID		DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.44	K FACTOR	0.978	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] ~~(5)~~ (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1230	0					410.30								
1		13.3		.75	.73	4	416.68	78	76	309	331	328	62	7.1	13.1
2		26.6	-13.7	1.10	1.07	6	424.17	83	77	321	324	330	57	6.2	13.9
3		40.0		1.10	1.07	8	431.78	85	78	324	330	331	58	5.9	14.2
1		53.3		.35	.33	3	436.39	86	81	311	331	331	64	7.1	13.1
2		66.6	-13.4	.89	.85	6	443.24	88	81	312	330	331	60	6.7	13.5
3		80.0		.98	.97	8	450.67	89	82	313	327	328	62	6.6	13.6
1		93.3		.13	.11	3.5	453.51	87	83	310	330	328	67	7.1	13.1
2		106.6	-13.9	.95	.93	9	460.68	89	84	314	328	323	58	6.7	13.5
3		120.0		1.00	.98	11	468.15	90	84	315	330	325	59	6.6	13.6
	1436														
AVERAGE			-13.7	0.754	0.782		57.85	83.4		314.3				6.7	13.5

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 11 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	O-H-R2	METER BOX	N-2	CAL. DATA: delta H	1.895
PLANT	AES Greenidge	PITOT TUBE DESC	E-11	Y	.967
LOCATION	Stack	PROBE LENGTH [ft]	81	C(p)	.833
DATE	10-3-07	NOZZLE ID [inch]	0.248	FILTER BOX SETTING	NA
OPERATOR(S)	Jim + KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	109 (47mm)	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.44	K FACTOR	~~[illegible]~~ 2.82	DUCT DIMENSIONS	DUCT AREA

Comments: Purge @ 1.6" H_2O for 10 min

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ H.S.L. [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
							485.113								
A-1	1232	7.5		.45	1.3	4	490.216	72	72	170	246	231	66	7.3	12.9
2		15.0	-.45	.50	1.4	4	495.312	81	72	185	252	230	53	—	—
3		22.5		.50	1.4	4	500.470	83	72	176	250	233	52	—	—
4	1302	30.0		.53	1.5	4	505.865	82	74	177	250	231	56	7.0	13.2
				2.813	5.6				608	708				14.3	26.1
B-1	1304	37.5		.50	1.4	5	510.850	82	76	176	253	233	60	—	—
2		45.0		.55	1.6	5	516.351	84	77	174	251	233	60	6.9	13.3
3		52.5		.55	1.6	5	521.675	88	78	186	253	230	61	—	—
4	1334	60.0	-.43	.53	1.5	5	527.009	89	78	184	250	231	62	6.9	13.3
			-.88	5.731	11.7				1260	1428				28.1	52.7
C-1	~~1339~~ 1337	67.5		.58	1.6	5	532.561	88	79	173	250	230	60	—	—
2		75.0		.62	1.7	5	538.125	88	80	172	249	236	58	7.0	13.2
3		82.5	-.53	.70	2.0	5	544.185	88	81	173	251	230	59	7.0	13.2
4	1407	90.0		.70	2.0	5	550.208	90	82	174	252	237	58	—	—
			-1.41	8.953	19.00				1936	2120				42.1	79.1
D-1	1409	97.5		.45	1.3	4.5	555.370	87	82	172	249	235	64	—	—
2		105.0	-.42	.50	1.4	5.0	560.650	89	82	172	250	231	62	7.1	13.1
3		112.5		.62	1.7	5.0	566.150	89	82	174	251	237	62	6.9	13.3
4	1439	120.0		.65	1.8	.50	571.865	90	83	174	250	234	61	—	—
AVERAGE			-.46		1.575		86.752		81.9	175.8				7.01	13.19

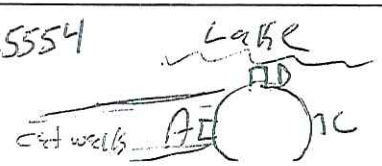
Sample Train Leak Checks: Pre Test .004 ft^3 @ 10 in. Hg; Post Test .002 ft^3 @ 7 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 6.0 in. H_2O; Post Test OK @ 5.0 in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

RMS → .5554



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	Run Three	METER BOX	N-3	CAL. DATA: delta H	1.859	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E-3	Y	1.046		
LOCATION	SCR Inlet	PROBE LENGTH [ft]	10	C(p)	0.84		
DATE	10/3/07	NOZZLE ID [inch]	0.250	FILTER BOX SETTING	NA		
OPERATOR(S)		%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]		FILTER ID	1080	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.38	K FACTOR	1.76	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet 6	METER TEMP [oF] outlet 7	STACK TEMP [°F] 1	PROBE TEMP [°F] 2	FILTER BOX [°F] 5 (HEATED LINE)	LAST IMP TEMP [°F] 4	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
0	15:55			0.18	0.32	3	203.778	102	101	671	330	243	80	4.4	
10				0.18	0.32	3	207.155	102	101	675	333	204	69		
20				0.18	0.32	4	210.200	104	102	675	329	177	66		
30				0.18	0.32	4	213.29	104	101	677	325	162	66		
40			-6.5	0.26	0.46	6	216.82	105	101	668	330	154	65	5.0	
50				0.25	0.44	6	220.43	105	102	670	328	152	65		
60				0.25	0.44	7	224.04	106	102	670	333	152	65		
70			-6.5	0.26	0.46	8	227.66	107	103	670	332	154	65		
80				0.26	0.46	9	231.33	107	104	673	327	151	65	4.9	
90				0.26	0.46	10	235.20	107	104	675	330	150	66		
100				0.26	0.46	12	238.71	107	104	674	326	150	66		
110				0.26	0.46	14	242.36	107	104	675	337	148	68		
120	17:56			0.26	0.46	15	246.18	107	104	676	263	147	70		
AVERAGE			-6.5	0.232	0.414		42.402	104.7		673.0				4.8	

Sample Train Leak Checks: Pre Test .002 ft^3 @ 10 in. Hg
Post Test .001 ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O
Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	Run three	METER BOX	U-5	CAL. DATA: delta H	1.883	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E-15	Y	.991		
LOCATION	SCR Outlet	PROBE LENGTH [ft]	10	C(p)	.823		
DATE	10/3/07	NOZZLE ID [inch]	.258	FILTER BOX SETTING	NA		
OPERATOR(S)		%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]		FILTER ID	10.81	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.38	K FACTOR	1.76	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	~~PROBE TEMP~~ Probe Temp [°F]	~~FILTER BOX~~ Line Temp [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	00	1555	-8.0	.16	.28	1.0	367.023	91	92	664	326	196	60	4.3	
	10			.16	.28	1.0	370.010	91	91	669	323	208	58		
	20			.16	.28	2.0	372.980	92	92	670	324	213	60		
	30			.16	.28	3.0	375.940	92	92	671	318	214	61		
	40			.16	.28	3.0	378.870	93	93	658	325	214	62		
	50			.16	.28	4.0	381.856	93	94	660	324	214	64	3.9	
	60			.16	.28	5.0	384.980	94	95	660	318	214	64		
	70		-8.0	.16	.28	5.0	387.700	95	95	661	319	214	65		
	80			.16	.28	6.0	390.65	95	95	661	320	213	65		
	90			.16	.28	8.0	393.50	95	95	663	325	213	60	3.9	
	100			.16	.28	9.0	396.41	95	94	664	320	213	52		
	110			.16	.28	10.0	399.22	95	95	664	320	213	52		
	120	1756		.16	.28	12.0	402.181	95	95	664	328	212	53		
AVERAGE			-8.0	0.16	0.28		35.158	93.6		663.8				4.0	—

Sample Train Leak Checks: Pre Test 0.003 ft^3 @ 15 in. Hg; Post Test 0.002 ft^3 @ 12 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	#3	METER BOX	2-1	CAL. DATA: delta H	1.584
PLANT	AES Greenidge	PITOT TUBE DESC	E-5	Y	0.970
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10'	C(p)	0.827
DATE	10-3-07	NOZZLE ID [inch]	3/16 0.194	FILTER BOX SETTING	~325
OPERATOR(S)	BS, BH	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	~750	FILTER ID	1082 & 1084	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.38	K FACTOR	0.978	DUCT DIMENSIONS / DUCT AREA	

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F] (6)	PROBE TEMP [°F] (7)	"FILTER BOX" [°F] (1)	LAST IMP TEMP [°F] (2)	METER EXHAUST O_2 [% vol] (4)	METER EXHAUST CO_2 [% vol] (5)
	1555	0					480.35								
1		13.3		.8	.78	5	486.95	87	83	306	322	240	~~240~~	—	—
2		26.6	-14.2	1.10	1.07	7	494.55	89	84	310	298	242	66	6.7	13.5
3		40.0		1.10	1.07	8	502.21	91	85	312	295	244	67	6.6	13.6
1		53.3		.32	.30	5	506.57	89	85	303	330	245	65	7.3	12.9
2		66.6	-13.6	.85	.83	10	513.35	91	86	304	328	244	61	6.8	13.4
3		80.0		1.10	1.07	15	520.99	92	86	303	310	244	61	6.6	13.6
							521.20	CHARGE		FILTER 1084 L.C.				0.15	"
1		93.3		.07	.05	2	523.10	87	85	299	313	240	68	7.6	12.6
2		106.6	-13.6	.95	.93	6	530.28	90	86	306	324	242	62	7.0	13.2
3		120.0		.95	.93	7	537.61	92	86	308	329	246	61	6.8	13.4
	1804														
				RMS			57.05								
AVERAGE			-13.3	0.740	0.781		~~57.26~~	87.4		305.7				6.9	13.3

Sample Train Leak Checks: Pre Test 0.15 ft^3 @ 10 in. Hg; Post Test 0.15 ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest 0.15 @ 7 in. H_2O; Post Test 0.15 @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	OH R3	METER BOX	N-2	CAL. DATA: delta H	1.895
PLANT	AES Greenidge	PITOT TUBE DESC	E-11	Y	0.967
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	.833
DATE	10-3-07	NOZZLE ID [inch]	.248	FILTER BOX SETTING	NA
OPERATOR(S)	JJ, KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	≈75	FILTER ID	110 (47%)	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	~~29.44~~ 29.38	K FACTOR	2.82	DUCT DIMENSIONS	DUCT AREA

Comments: Purge @ 1.6" H_2O for 10 min.

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft³]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ H.S.C. [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
				.60			580.097								
D-1	1555	7.5	~~.60~~	~~1.7~~	1.7	5.5	586.512	80	79	186	250	231	58	—	—
2		15.0	-.41	.60	1.7	5.5	591.975	82	80	183	250	232	56	7.3	12.9
3		22.5		.65	1.8	5.5	597.560	83	80	173	250	231	54	—	—
4	1625	30		.65	1.8	5.5	603.339	88	81	174	249	230	56	7.4	12.8
				3.162	7.0				653	716				14.7	25.7
C-1	1629	37.5		.47	1.3	4.5	608.850	86	81	174	250	232	61	—	—
2		45.0	-.42	.70	2.0	5.5	614.275	87	82	175	250	230	60	7.4	12.8
3		52.5		.72	2.0	5.5	620.280	89	82	181	252	230	56	7.4	11.8
4	1659	60.0		.70	2.0	5.5	626.263	91	83	174	250	232	58	—	—
			-.83	6.370	14.3				1336	1420				29.5	51.3
B-1	1702	67.5		.52	1.5	5.0	632.295	88	84	172	252	231	62	—	—
2		75.0	-.38	.55	1.6	5.0	637.760	91	84	172	250	232	58	7.3	12.9
3		82.5		.60	1.7	5.0	643.350	91	84	175	251	230	58	7.3	12.9
4	1732	90.0		.58	1.6	5.0	648.873	93	85	175	250	233	60	—	—
			-1.21	9.369	20.7				2036	2114				44.1	77.10
A-1	1737	97.5		.45	1.3	5.0	653.800	91	85	173	250	231	62	—	—
2		105.0	-.35	.47	1.3	5.0	658.770	92	85	175	250	230	60	7.3	12.9
3		112.5		.45	1.3	5.0	663.750	92	86	173	250	234	59	7.3	12.9
4	1807	120.0		.50	1.4	5.0	668.858	92	86	173	250	234	59		—
AVERAGE			-.39		1.625		88.76		85.8	175.5				7.3	12.9

Sample Train Leak Checks: Pre Test .011 ft³ @ 10 in. Hg; Post Test .010 ft³ @ 8 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 5.2 in. H_2O; Post Test ✓ @ 4.8 in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

RMS → .5722

CONSOL ENERGY.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	AHO-4 Mercury Run 4	METER BOX	1	CAL. DATA: delta H	1.894	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.994		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10	C(p)			
DATE	10/5/07	NOZZLE ID [inch]		FILTER BOX SETTING	325		
OPERATOR(S)	BJH	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	74	FILTER ID	1057	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.68	K FACTOR	.978	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	LINE FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1110						615.017								
A1		13.5	-1.5	1.1	.99	4	622.49	78	76	314	310	170	56		
2	27	~~[illegible]~~		1.1	.99	4	629.84	82	77	313	319	183	53	6.9	
3		40.5		.8	.78	5	636.085	85	78	305	316	191	58	5	
B1		54	-13.9	.92	.9	7	645.2	86	80	304	312	192	58		
2		67.5		.87	.85	10	649.8	87	81	308	309	190	60		
3		81		.42	.4	9	654.7	87	81	300	313	193	61		
C1		94.5		1.0	.98	10	661.6	87	82	308	304	192	64	7.2	10.2
2		108		0.8	0.78	18	664.351	87	83	309	308	191	67	6.6	10.7
3		121.5													
				Rus											
				0.862											
AVERAGE		100	-14.5	~~1.126~~	0.854		49.339	82.3		307.6				6.9	10.5

Sample Train Leak Checks:	Pre Test	4.004 ft^3	@	16	in. Hg	Pitot Tube Leak Checks:	PreTest	✓	@ 6 in. H_2O
	Post Test	6.000 ft^3	@	20	in. Hg		Post Test	✓	@ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

Stop @ 100 min

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	JTK-04 ~~R6 (OH-R4)~~	METER BOX	N-2	CAL. DATA: delta H	1.895 ~~1.825~~
PLANT	AES Greenidge	PITOT TUBE DESC	E-11	Y	0.965
LOCATION	Stack	PROBE LENGTH [ft]	8'	C(p)	
DATE	10-5-07	NOZZLE ID [inch]	248	FILTER BOX SETTING	NA
OPERATOR(S)	TMKC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	117 (47mm)	DUCT X-SECTION	circ? rect ? other:
BAR. PRESS. [" Hg]	29.68	K FACTOR	~~2.62~~ 2.82	DUCT DIMENSIONS	DUCT AREA

Comments: Purge @ 1.7" H_2O for 10 min

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ HSL BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	11.10						774.215								
1		7.5	~~[illegible]~~	0.47	~~1.10~~ 1.3	4	772.264	86	85	175	245	221	53	—	—
2		15.0		.50	1.4	5	784.010	78	75	174	249	230	50	7.3	12.9
3		22.5	-.38	.50	1.4	5	789.170	80	76	176	250	231	50	7.2	13.0
4	1140	30.0		.50	1.4	5	794.104	83	78	174	246	232	55	—	—
			—	2.806	5.5	—	—	~~83~~	631	699	—	~~235~~	—	14.5	25.9
1	1146	37.5		.60	1.7	5	799.720	83	77	173	250	235	58	—	—
2		45.0	-.40	.58	1.6	5	805.175	84	77	175	251	232	55	7.1	13.1
3		52.5		.63	1.9	5	810.200	87	~~89~~ 79	174	249	236	56	7.1	13.1
4	1216	60.0		.63	1.9	5	816.733	89	79	176	250	234	56	—	—
			-.78	5.930	12.6				1286	1397				28.7	52.1
1	1218	67.5		.65	1.8	5	822.550	91	82	175	250	232	61	—	—
2		75.0		.70	2.0	5	828.325	92	83	175	248	236	61	7.0	13.2
3		82.5	-.41	.72	2.0	5	834.730	93	83	174	250	238	60	7.0	13.2
4	1248	90.0		.72	2.0	5	840.288	94	84	175	249	236	62	~~42.7~~	—
			-1.19	9.270	20.4				1988	2096				42.7	78.5
1	1250	97.5		.45	1.3	4	845.361	93	85	186	249	234	66	—	—
2		105.0		.55	1.6	4	851.030	94	85	183	250	232	62	7.1	13.1
3		112.5	-.35	.55	1.6	4	856.290	96	87	175	246	231	62	7.2	13.0
4	1320	120		.60	1.7	4	861.590	97	88	176	248	232	61	—	—
AVERAGE			-.39		1.66		87.375		84.78	176				7.13	13.08

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 7 in. Hg; Post Test .005 ft^3 @ 6 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 7 in. H_2O; Post Test <.01 @ 6 in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOL ENERGY

Rgs → .5813

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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	AHD-5						
TEST ID	Mercury Run 5	METER BOX	2	CAL. DATA: delta H	1.594	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.979		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]		C(p)			
DATE	10/5/07	NOZZLE ID [inch]		FILTER BOX SETTING	325		
OPERATOR(S)	BJ	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	50	FILTER ID	1088 & 1089	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.68	K FACTOR	.978	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft³]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
							663 / 6685.400								
1	1402	13.5		1.1	.99	5	676.0	91	87	309	314	250	68	6.6	10.7
2		27		1.0	.94	8	683.0	92	86	308	316	250	65	6.9	10.5
3		40.5		1.1	.99	8	690.3	92	87	310	316	250	62		
B1		54		1.1	.99	10	697.8	91	87	304	314	250	56	6.6	10.7
2		67.5	-14.0	0.90	.88	12	704.7	93	88	305	315	250	52		
3		81		.4	.39	10	709.2	93	88	302	314	251	53		
C1		94.5		1.2	1.0	5	717.4	92	88	305	302	247	58	6.8	9.7
2		108		.95	.93	5.5	725.0	95	89	310	308	247	56		
3		~~121.5~~ 122	-14.2	0.10	.09	3	727.846	94	89	310	310	246	57		
AVERAGE			-14.1	0.823	0.806		59.446	90.1		307				6.7	10.5

Sample Train Pre Test .001 ft³ @ 15 in. Hg
Leak Checks: Post Test _____ ft³ @ _____ in. Hg

Pitot Tube PreTest ✓ @ 6 in. H_2O
Leak Checks: Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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STK-5

TEST ID	B7 (0:4 R5)	METER BOX	N-2	CAL. DATA: delta H	1.895
PLANT	AES Greenidge	PITOT TUBE DESC	E-1	Y	0.968
LOCATION	Stack	PROBE LENGTH [ft]	8'	C(p)	833
DATE	10-5-07	NOZZLE ID [inch]	.248	FILTER BOX SETTING	NA
OPERATOR(S)	TJ, BC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	78	FILTER ID	96 (47mm)	DUCT X-SECTION	circ? / rect? / other:
BAR. PRESS. [" Hg]	29.68	K FACTOR	2.82	DUCT DIMENSIONS	DUCT AREA

Comments: * Stop @ 1443 to try and fix vacuum issue. Also umbilical was torn near seal to refitting. NRw DGM → 962.315 Restart 1502

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	2:00						869.481								
1		7.5		.50	1.4	12	871.05	90	91	175	246	225	61	7.6	12.6
2		15.0		.60	1.7	14	879.13	92	89	175	248	225	54	7.6	12.6
3		22.5	-.42	.65	1.8	14	885.08	95	89	175	250	225	58	7.6	12.6
4	1430	30.0		.58	1.6	14	890.548	97	90	175	250	224	63	7.6	12.6
				3.050	6.5				733	700				30.4	50.4
1	1436	37.5		.70	2.0	14	897.570	97	91	176	247	235	56	—	—
2	*	45.0	-.38	.70	2.0	15	909.260	100	93	175	250	237	55	7.3	12.9
3		52.5		.75	2.1	15	915.470	101	93	176	251	236	55	7.3	12.9
4	1525	60.0		.75	2.1	15	921.668	102	94	176	248	237	61	—	—
			-.80	6.455	14.7				1504	1403				45.0	76.2
1	1528	67.5		.56	1.6	13	927.250	100	95	174	249	231	66	—	—
2		75.0	-.30	.56	1.6	13	932.730	102	96	176	248	236	65	7.4	13.0
3		82.5		.65	1.8	13	938.614	103	96	175	249	237	63	7.4	13.0
4	1558	90.0		.63	1.8	13	944.262	104	97	174	250	233	62	—	—
			-1.10	9.552	21.5		945.514		2297	2102				51.8	102.2
1	1601	97.5		.45	1.3	5	950.872	101	97	175	250	231	64	—	—
2		105.0		.48	1.4	5	955.635	103	98	175	249	232	60	7.4	13.0
3		112.5	-.35	.50	1.4	5	960.902	104	98	176	250	230	61	7.4	13.0
4	1612	120.0		.50	1.4	5	966.165	106	99	175	246	233	63	—	—
AVERAGE			-.36		1.69		91.603		96.97	175.2				7.46	12.82

Sample Train Leak Checks:	Pre Test <0.01 ft^3 @ 8 in. Hg		Pitot Tube Leak Checks:	PreTest <0.01 @ 6 in. H_2O	
	Post Test ~~.0010~~ ft^3 @ 6 in. Hg			Post Test ✓ @ in. H_2O	

Rmg → .5938

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

STOP 1603 Filter broke
Leak ✓ .0050 @ 7" Hg
new DGM → 945.913 Restart 1613

Purge @ 1.7 "H_2O for 10 min

NOTE: Subtracted 5.144 ft^3 from meter volume for leak rate

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	#6	METER BOX	3	CAL. DATA: delta H	1.859	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	~~[illegible]~~ E-5	Y	1.046		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	~~[illegible]~~ 10	C(p)	0.827		117.0
DATE	10-8-07	NOZZLE ID [inch]	0.164	FILTER BOX SETTING	~~325~~		
OPERATOR(S)	RO, BS	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	~48°	FILTER ID	1091	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.35	K FACTOR	~~[illegible]~~ 0.9	DUCT DIMENSIONS		DUCT AREA	

(6) (7) (1) (2) H.L (3)

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1115	0					272.30								
A 1		13.3		.75	.68	5	278.12	89	86	312	321	201	61	7.0	13.1
2		26.6	-15.3	1.20	1.07	7	285.17	94	87	321	324	205	61	6.3	13.8
3		40.0		1.20	1.07	8.5	292.28	96	89	320	324	208	60	6.5	13.6
				.32	.29		299.60	L.C.	OK	"	~~3~~	~~202~~	~~64~~		
B 1	1200	53.3		~~0.29~~	~~0.30~~	5.5	296.50	95	90	309	323	202	64	7.3	12.9
2		66.6	-15.0	.90	.82	9	302.87	96	91	311	326	202	58	7.0	13.1
3		80.0		1.10	.99	12.5	310.10	99	93	310	310	204	60	7.0	13.1
							310.90	L.C.	OK	"					
C 1	1243	93.3		0.11	0.10	5	313.34	96	93	306	307	204	67	7.3	12.9
2		106.6	-14.6	.98	.89	15	320.05	98	94	314	315	204	62	7.2	13.0
3		~~120.0~~													
	1307	STOP													
AVERAGE			-14.9	0.753	0.739		46.63	92.9		312.9				7.0	13.2

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 13 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	6	METER BOX	N 2	CAL. DATA: delta H	1.895
PLANT	AES Greenidge	PITOT TUBE DESC		Y	0.967
LOCATION	Stack	PROBE LENGTH [ft]	8'	C(p)	
DATE	10-8-07	NOZZLE ID [inch]	1/4 D	FILTER BOX SETTING	NA
OPERATOR(S)	BG & KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	71	FILTER ID	97	DUCT X-SECTION	circ ?
BAR. PRESS. [" Hg]	29.35	K FACTOR	2.82	DUCT DIMENSIONS	

Comments: 299.9

rect ? | other: | DUCT AREA

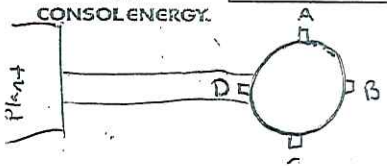
TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	11:12						973.800								
D-1		7.5		.55	1.6	5	979.2	77	75	174	245	236	51	7.3	
2		15		.57	1.6	5	984.6	79	76	173	249	229	49		
3		22.5		.59	1.7	5	990.1	83	77	175	246	230	50	7.2	
4		30		.65	1.8	5	995.7	87	79	174	250	232	51		
							1001.0								
C A-1		37.5		.50	1.4	4	~~1000.0~~	86	80	176	248	230	54		
2		45	-.33	.54	1.5	5	1006.1	89	84	174	250	229	53	7.3	
3		52.5		.58	1.6	5	1011.6	90	82	174	249	229	53		
4		60		.57	1.6	5	1016.7	92	83	178	249	229	54	7.1	
B-1		67.5	-.35	.61	1.7	5	1022.5	93	84	174	250	237	59	7.2	
2		75		.65	1.8	6	1028.4	93	85	175	251	238	59		
3		82.5	-.42	.72	2.0	6	1034.2	95	86	175	249	236	60	7.2	
4		90		.65	1.8	6	1040.0	95	86	173	248	236	61		
A C-1		97.5		.60	1.7	6	1045.6	94	87	182	249	238	63		
2		105		.66	1.9	6	1051.5	96	88	182	249	236	65	7.2	
3		112.5		.66	1.9	6	1057.4	97	89	174	249	234	64		
4	~~1319~~	~~120~~	-.44	.67	1.9	6	1060.129	98	89	175	250	235	65	7.2	
AVERAGE	1315	116	-0.35	0.609	1.719		86.329	86.7		175.5				7.2	

Sample Train Pre Test <0.01 ft^3 @ 7 in. Hg
Leak Checks: Post Test <0.01 ft^3 @ 10 in. Hg

Pitot Tube PreTest <0.01 @ 6 in. H_2O
Leak Checks: Post Test <0.01 @ 6 in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOLENERGY



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	#7	METER BOX	N-3	CAL. DATA: delta H	1.859	Comments:	63.9
PLANT	AES Greenidge	PITOT TUBE DESC	E5	Y	1.046		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10'	C(p)			
DATE	10-9-07	NOZZLE ID [inch]		FILTER BOX SETTING	~~325~~		
OPERATOR(S)	BS RO	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	~70°	FILTER ID	1096	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.15	K FACTOR	0.90	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] M.L (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1545	0					390.80								
A1		13.3		.72	.64	4.5	396.55	77	77	316	316	236	65	7.2	13.0
2		26.6	-15.1	1.20	1.07	6.5	403.77	81	78	325	320	236	61	6.5	13.6
3		40.0		1.20	1.07	8	411.02	84	79	327	317	234	63	6.3	13.8
							411.50		leak	ok	(OK)				
B1	MILL	53.3		.33	.30	5.5	415.47	80	78	311	311	240	65	7.4	12.8
2	TRIP	66.6		.85	.76		416.40	AT	55.4 m	2.					
3	1640	80.0													
	STOP														
C1		93.3													
2		106.6													
3		120.0													
							10 min	purge							
				RMS											
AVERAGE		55.4	-15.1	0.923	0.768		25.60	79.3		319.8				6.9	13.3

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 12 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Stack - 7
PLANT	AES Greenidge
LOCATION	Stack
DATE	10/9/07
OPERATOR(S)	BG + KC
AMBIENT TEMP [°F]	73
BAR. PRESS. [" Hg]	~~27.22~~ 29.15

METER BOX	N-2
PITOT TUBE DESC	
PROBE LENGTH [ft]	8
NOZZLE ID [inch]	1/4 D
%H_2O (Assumed)	8
FILTER ID	100
K FACTOR	2.82

CAL. DATA: delta H	1.895
Y	.967
C(p)	
FILTER BOX SETTING	NA
PROBE HTR SETTING	250
DUCT X-SECTION	circ ? rect ? other:
DUCT DIMENSIONS	DUCT AREA

Comments: Stop at 54:15 214.142 Dgm (mill trip)
150.4

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1545	0					172.501								
A-1		7.5		.64	1.8	6	178.7	71	71	177	260	257	56	7.4	
2		15	-.39	.62	1.7	6	183.8	74	71	178	259	241	46		
3		22.5		.70	2.0	6.5	189.7	77	72	178	260	240	48	7.3	
4	1615	30	-.39	.67	1.9	6.5	195.643	78	72	176	260	238	49		
B-1	1616	37.5		.63	1.8	6	201.6	78	73	171	257	239	52	7.2	
2		45	-.39	.62	1.7	6	207.1	80	75	175	260	238	51		
3		52.5	-.42	.68	1.9	6	212.8	80	74	176	259	237	52	7.1	
4	54:15	60		.68	1.9		214.142	81	75	175	258	236	53		
C-1		67.5													
2		75													
3		82.5													
4		90													
D-1		97.5													
2		105													
3		112.5													
4		120		RMS											
AVERAGE			-0.40	0.653	1.34		41.641	75.1		175.8				7.3	

Sample Train Leak Checks: Pre Test .002 ft^3 @ 15 in. Hg
Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O
Post Test _____ @ _____ in. H_2O

CONSTELLATION ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	#8	METER BOX	N-3	CAL. DATA: delta H	1.859
PLANT	AES Greenidge	PITOT TUBE DESC	E5	Y	1.046
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10'	C(p)	
DATE	10-10-07	NOZZLE ID [inch]		FILTER BOX SETTING	325
OPERATOR(S)	BS, RO	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]		FILTER ID	1097	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.12	K FACTOR	0.90	DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ H.L (3) [°F]	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					422.50								
A-1	1045	13.3	-15.34	0.70	0.70	4	428.47	74	72	310	309	240	61	7.4	12.8
2		26.6		1.10	0.99	5.5	435.33	77	73	319	301	241	59	7.0	13.1
3		40.0		1.10	0.99	7	442.30	80	74	321	298	243	61	6.7	13.4
							442.50		(leak	test	OK)				
B-1	1125	53.3	-15.17	0.34	0.31	4	446.58	81	77	310	291	244	62	7.4	12.8
2		66.6		0.90	0.81	6.5	452.90	83	77	313	288	244	61	7.0	13.1
3		80.0		1.20	1.08	10	460.12	86	79	313	284	244	62	6.8	13.3
							460.30		(leak	test	ok)				
C-1	1207	93.3		0.10	0.09	4.5	462.74	85	81	301	284	245	68	—	—
2	1235	~~101.1~~	107	1.00	0.90	~~13~~ 15	469.71	86	81	315	278	244	64	7.0	13.1
3		~~[illegible]~~	end time												
AVERAGE		107	-15.26	.739	.734		46.83 ~~47.21~~		79.12	312.75				7.04	13.1

- test ended @ 107 min because of filter load
- purged 10 min after test

Sample Train Leak Checks: Pre Test 0.15 ft^3 @ 10 in. Hg; Post Test <0.01 ft^3 @ 13 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	~~TEST~~ STACK-8	METER BOX	N2	CAL. DATA: delta H	1.895	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.967		
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)			
DATE	10/10/07	NOZZLE ID [inch]	¼ D	FILTER BOX SETTING	NA		
OPERATOR(S)	BG + KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250		
AMBIENT TEMP [°F]	68	FILTER ID	114	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.12	K FACTOR	2.82	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ LINE BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1040	0					221.702								
D-1		7.5	-.34	.58	1.6	4	226.9	61	60	172	257	222	44		
2		15		.55	1.5	5	232.1	64	61	172	250	216	40	7.5	
3		22.5	-.40	.60	1.7	5	237.7	67	62	173	249	216	41	7.3	
4		30		.60	1.7	5	243.274	69	63	173	252	217	42		
C-1		37.5		.54	1.5	5	248.7	71	65	171	250	212	44	7.3	
2		45	-.37	.59	1.6	5	253.9	74	67	174	251	215	44		
3		52.5	-.45	.58	1.6	5	259.3	75	67	174	251	215	44		
4		60		.59	1.6	5	264.820	76	68	174	252	214	45	7.3	
B-1		67.5	-.44	.65	1.8	5	270.5	75	69	176	250	208	47	7.3	
2		75		.65	1.8	5.5	276.2	76	70	174	254	213	48		
3		82.5		.63	1.9	5.5	281.0	74	70	174	259	220	51	7.3	
4		90	-.37	.65	1.8	6	287.454	73	70	175	256	221	51		
								7							
A-1		97.5	-.35	.57	1.6	6	293.5	72	69	175	254	224	56	7.3	
2		105		.57	1.6	6	299.1	75	71	175	255	227	56	7.2	
3		112.5		.61	1.7	5.5	304.7	78	71	175	256	227	55	7.1	
4		120	-.37	.64	1.8	6	310.351	78	72	175	256	227	56	7	
AVERAGE	1245		-.386	.602	1.68		88.649		67.66	173.88				7.29	

Sample Train Pre Test .002 ft^3 @ 15 in. Hg
Leak Checks: Post Test .000 ft^3 @ 9 in. Hg

Pitot Tube PreTest ✓ @ 6 in. H_2O
Leak Checks: Post Test ✓ @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AHO-9	METER BOX	3	CAL. DATA: delta H	1.859
PLANT	AES Greenidge	PITOT TUBE DESC		Y	1.046
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	10	C(p)	
DATE	10/11/07	NOZZLE ID [inch]		FILTER BOX SETTING	325
OPERATOR(S)	RWO, BS	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]		FILTER ID	1107	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.15	K FACTOR	0.90	DUCT DIMENSIONS / DUCT AREA	

Comments: 100.3

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP (6) [oF] inlet	METER TEMP (7) [oF] outlet	STACK TEMP (1) [°F]	PROBE TEMP (2) [°F]	FILTER BOX (3) [°F]	LAST IMP TEMP (4) [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
							508.00								
out Top	1230	13.3		0.78	0.70	4	514.18	69	68	313	290	200	60	7.6	12.6
		26.6	-15.27	1.10	0.99	6	520.94	71	68	316	300	216	59	7.1	13.0
in		40.0		1.15	1.03	7	527.07	74	68	317	288	226	61	6.9	13.2
							528.10		leak test OK						
out Mid		13.3		0.30	0.27	5	531.96	74	69	308	286	232	63	7.6	12.6
		26.6	-15.00	0.91	0.82	9	538.27	74	69	310	279	233	59	7.1	13.1
in		40.0		1.15	1.03	12	545.35	75	70	310	277	230	59	6.7	13.4
							545.68		leak test OK						
out	1355	13.3		0.09	0.08	5	547.93	73	70	297	290	234	61	7.4	12.8
Bottom	1408		-14.46	0.88	0.79	17	554.37	75	71	313	291	234	57	6.6	13.5
in															
							- Stop @ 107 due to filter 102%								
							- 10 min purge after test								
				RWS											
AVERAGE		107	-14.91	0.726	0.720		45.81	71.1		310.5				7.1	13.0

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 10 in. Hg; Post Test <0.01 ft^3 @ 14 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 5 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	54K - 4	METER BOX	N-2	CAL. DATA: delta H	1.895
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.967
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	
DATE	10/11/07	NOZZLE ID [inch]	¼ D	FILTER BOX SETTING	NA
OPERATOR(S)	BG, KC	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	58	FILTER ID	148	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.16	K FACTOR	2.82	DUCT DIMENSIONS	DUCT AREA

Comments: 272.2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ LINE BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1230						364.101								
D-1		7.5	-.38	.57	1.6	5	369.3	55	54	177	249	220	41	7.3	
2		15		.52	1.5	5	374.6	57	54	178	248	210	40		
3		22.5		.54	1.5	5	379.8	60	55	178	250	206	41		
4		30	-.40	.59	1.6	5	385.032	62	56	178	250	202	43	7.2	
C-1		37.5		.53	1.5	5	390.1	64	57	178	250	200	43	7.2	
2		45	-.42	.55	1.5	5	395.4	63	56	178	252	212	43		
3		52.5		.60	1.7	5	400.92	64	57	178	254	207	44	7.2	
4		60		.59	1.6	5	406.294	65	58	178	256	208	45		
B-1		67.5		.65	1.8	5	411.4	62	57	177	249	221	44		
2		75		.60	1.7	6	416.9	65	58	177	250	224	45	6.9	
3		82.5	-.41	.62	1.7	6	422.7	64	57	177	252	226	45		
4		90		.66	1.8	6	427.962	66	58	178	258	228	46	6.9	
A-1		97.5		.57	1.6	6	433.62	64	58	175	257	229	45	7.0	
2		105		.54	1.5	6	438.90	67	59	177	254	230	47		
3		112.5	-.42	.65	1.8	6	444.39	68	59	178	250	231	48	6.9	
4		120		.65	1.8	6	450.031	68	59	178	249	230	47		
AVERAGE			-.406	.589	1.64		85.930		60.19	177.5				7.08	

Sample Train Leak Checks: Pre Test .002 ft^3 @ 10 in. Hg; Post Test .002 ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest ✓ @ 6 in. H_2O; Post Test ✓ @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	STK-1
PLANT	Greenidge
LOCATION	Stack
DATE	11/13/07
OPERATOR(S)	TSTH / KC
AMBIENT TEMP [°F]	35
BAR. PRESS. [" Hg]	29.34

METER BOX	3
PITOT TUBE DESC	
PROBE LENGTH [ft]	8
NOZZLE ID [inch]	11/32 B .338
%H_2O (Assumed)	14%
FILTER ID	119
K FACTOR	8.47

CAL. DATA: delta H	1.859
Y	1.046
C(p)	.84
FILTER BOX SETTING	NA
PROBE HTR SETTING	250
DUCT X-SECTION	circ ?
DUCT DIMENSIONS	13ft

rect ? | other: | DUCT AREA 132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					635.223								
-5.0	1125	7.5	.39	.29	2.5	8	642.6	60	58	182	260	267	49		
-16.4		15.0		.27	2.3	7	648.6	66	59	183	257	266	49	10.0	
-30.3		22.5		.27	2.3	7	654.4	69	60	183	241	267	55		
-50.4		30.0		.26	2.2	7	660.33	70	61	183	235	231	54	10.2	10.2
-5.0		37.5	.39	.25	2.1	6.5	666.0	69	62	182	242	232	54	9.9	
-16.4		45.0		.26	2.2	6.5	671.9	69	62	157	236	237	54		
-30.3		52.5		.27	2.3	7	678.0	68	62	181	233	235	55	10.0	
-50.4		60.0		.27	2.3	7	684.07	69	63	187	243	235	56		
-5.0		67.5	.38	.26	2.2	7.5	690.4	68	63	182	267	239	54	9.9	
-16.4		75.0		.29	2.5	8	696.4	71	64	183	268	241	54		
-30.3		82.5		.29	2.5	8	702.5	72	65	184	265	240	55	9.9	
-50.4		90.0		.29	2.5	8	708.7	72	65	184	252	231	55		
-5.0		97.5	.39	.27	2.3	7.5	714.9	72	65	184	257	235	56	9.9	
-16.4		105.0		.29	2.5	8.5	721.1	73	66	184	257	236	57		
-30.3	0131	112.5		.3	2.5	8.5	727.2	73	66	183	259	237	57	10.0	
-50.4	~~1331~~	120.0		.3	2.5	8.5	733.731	74	66	183	258	240	55		
AVERAGE			0.39	~~0.28~~	2.36	7.5	98.508	66.3		182.7	251.5	241.8	54.5	9.98	

Sample Train Pre Test ~~0.006~~ ft^3 @ 15 in. Hg
Leak Checks: Post Test 0.000 ft^3 @ 11 in. Hg

Pitot Tube PreTest 0.00 @ 3 in. H_2O
Leak Checks: Post Test 0.00 @ 3 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	STK-2	METER BOX	3	CAL. DATA: delta H	1.859
PLANT	Greenidge	PITOT TUBE DESC		Y	1.044
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	.84
DATE	11/14/07	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	BTN/KC	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	35	FILTER ID	120	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.23	K FACTOR	8.47	DUCT DIMENSIONS	13ft / DUCT AREA 132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					742.180								
-5.0	~~1547~~	7.5	.42	.3	2.5	7.5	748.6	60	59	181	264	244	54	10.7	
-16.4	0347	15.0		.3	2.5	7.5	754.8	61	58	182	252	239	52		
-30.3		22.5		.24	2.5	7.5	761.1	63	58	182	256	241	57		
-50.4		30.0		.29	2.5	7.5	767.23	65	58	182	251	230	58	10.1	
-5.0		37.5		.3	2.5	7.5	773.4	65	58	181	242	232	60	11.1	
-16.4		45.0		.28	2.4	7.5	781.6	65	59	181	245	232	62		
-30.3		52.5		.28	2.4	7.5	788.7	66	60	182	243	230	62		
-50.4		60.0		.27	2.3	7	791.88	66	60	182	245	235	62		
-5.0		67.5		.24	2.0	6	797.5	65	61	181	240	237	60	10.3	
-16.4		75.0		.27	2.3	7	803.6	68	62	183	246	235	57		
-30.3		82.5		.26	2.2	7	809.6	69	63	183	254	241	60	10.1	
-50.4		90.0		.28	2.4	7	815.71	69	63	183	255	242	60		
-5.0		97.5		.25	2.1	6.5	821.6	69	64	182	267	237	61	10.1	
-16.4		105.0		.26	2.2	7	827.6	69	64	182	264	240	61		
-30.3		112.5		.27	2.3	7	833.6	71	65	183	256	241	61	9.9	
-50.4	0555	120.0		.27	2.3	7	839.681	72	65	183	259	238	64		
AVERAGE			0.42	0.275	2.34	7.1	97.561	63.8		182.1	252.4	237.4	59.4	10.3	

Sample Train Pre Test 0.005 ft^3 @ 15 in. Hg
Leak Checks: Post Test 0.002 ft^3 @ 9 in. Hg

Pitot Tube PreTest _____ @ _____ in. H_2O
Leak Checks: Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	STK 3 R7	METER BOX	3	CAL. DATA: delta H	1.859	Comments:	
PLANT	Greenidge	PITOT TUBE DESC		Y	1.046		
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)			
DATE	11/14/07	NOZZLE ID [inch]	.27	FILTER BOX SETTING	NA		
OPERATOR(S)	BTH / KC	%H_2O (Assumed)	14%	PROBE HTR SETTING	250		
AMBIENT TEMP [°F]	48	FILTER ID	121	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.09	K FACTOR	8.47	DUCT DIMENSIONS	13ft	DUCT AREA	132.732 ft2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					843.182								
-5.0	2300	7.5	.39	.35	2.9	8	850.0	67	66	180	266	231	59	8.0	9.8
-16.4		15.0		.35	2.9	8	857.0	68	66	182	266	235	57		
-30.3		22.5		.4	3.4	9	864.0	69	66	182	262	240	63	7.5	10.0
-50.4		30.0		.4	3.4	9	871.10	72	66	183	262	241	64		
															12.5
-5.0		37.5		.36	3.0	8	877.8	71	67	180	267	237	61	7.7	~~10.9~~
-16.4		45.0		.37	3.1	8.5	884.8	72	66	181	236	238	59		10.5
-30.3		52.5		.41	3.5	10	892.1	74	68	181	234	240	59	7.7	~~9.6~~
-50.4		60.0		.4	3.4	10	899.47	74	68	183	231	234	59		
-5.0		67.5		.3	2.5	8	905.7	74	69	181	237	241	58	7.6	12.6
-16.4		75.0		.3	2.5	8	912.1	74	69	182	269	240	58		
-30.3		82.5		.32	2.7	8	918.4	77	70	184	272	237	59	7.6	12.6
-50.4		90.0		.37	3.1	8.5	925.56	78	71	184	254	236	61		
-5.0		97.5		.32	2.7	8	932.1	76	71	184	239	235	61	7.5	12.7
-16.4		105.0		.33	2.8	8	938.7	75	71	184	241	241	60		
-30.3		112.5		.35	2.9	9	945.6	75	71	184	236	240	60	7.5	12.5
-50.4	0107	120.0		.37	3.1	9.5	952.483	75	71	183	241	237	60		
AVERAGE			-0.39	0.355	2.974		109.301	70.8		182.4				7.6	11.9

Sample Train Pre Test 0.00 ft^3 @ 13 in. Hg
Leak Checks: Post Test 0.00 ft^3 @ 12 in. Hg

Pitot Tube PreTest 0.00 @ 4 in. H_2O
Leak Checks: Post Test 0.00 @ 3 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	STK-4 R2	METER BOX	3	CAL. DATA: delta H	1.859
PLANT	Greenidge	PITOT TUBE DESC		Y	1.046
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	
DATE	11/15/07	NOZZLE ID [inch]	.278	FILTER BOX SETTING	NA
OPERATOR(S)	BTH / KC	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	44	FILTER ID	122	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.09	K FACTOR	4.25	DUCT DIMENSIONS	13ft / DUCT AREA 132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					961.265								
-5.0	0345	7.5	.38	.32	1.4	4.5	966.0	68	67	183	236	234	52	8.2	12
-16.4		15.0		.3	1.3	4.5	970.7	68	66	183	236	237	52		
-30.3		22.5		.35	1.5	5	975.6	69	66	183	236	240	52	8.3	11.9
-50.4		30.0		.34	1.6	5	980.74	70	66	183	237	240	52		
-5.0		37.5		.37	1.4	4.5	985.7	71	66	183	237	245	52	8.4	11.8
-16.4		45.0		.31	1.3	4.5	990.4	71	66	184	237	244	52		
-30.3		52.5		.34	1.4	4.5	995.2	71	66	184	233	243	52	8.3	11.9
-50.4		60.0		.37	1.6	5	000.33	71	66	184	240	240	53		
-5.0		67.5		.42	1.8	6	006.7	71	66	183	235	237	52	8.3	11.9
-16.4		75.0		.4	1.7	5.5	011.9	72	66	184	242	237	52		
-30.3		82.5		.45	1.9	6	017.5	72	66	184	245	240	52	8.2	12
-50.4		90.0		.46	2.0	6.5	023.15	72	66	185	250	241	55		
-5.0		97.5		.37	1.6	5	028.2	69	66	183	246	240	55	8.6	11.1
-16.4		105.0		.38	1.6	5	033.2	70	66	185	232	240	56		
-30.3		112.5		.43	1.8	6	038.7	71	66	186	251	245	55		
-50.4	0554	120.0		.44	1.9	6.5	044.30	71	66	186	250	242	56		
AVERAGE			0.38	0.379	1.61		83.047	68.3		183.9	240.6	240.2	53.1	8.3	

Sample Train Leak Checks: Pre Test 0.00 ft^3 @ 15 in. Hg; Post Test 0.00 ft^3 @ 9 in. Hg

Pitot Tube Leak Checks: PreTest 0.00 @ 4 in. H_2O; Post Test 0.00 @ 4 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO MERCURY SPECIATION

~~EPA METHOD 5/26 PARTICULATE/ACID GAS~~ SAMPLING FIELD DATA SHEET

Page ____ of ____

TEST ID	A140-1	METER BOX	2-4	CAL. DATA: delta H	1.847	Comments:	
PLANT	Greenidge	PITOT TUBE DESC		Y	1.001		
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	~~8~~ 10	C(p)			
DATE	11-16-07	NOZZLE ID [inch]	3/16 0.187	FILTER BOX SETTING	NA		
OPERATOR(S)	BS, PR	%H_2O (Assumed)	8	PROBE HTR SETTING	250		
AMBIENT TEMP [°F]	~38°	FILTER ID	1114	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.23	K FACTOR	0.74	DUCT DIMENSIONS	9 ft x 12 ft	DUCT AREA	108 ft2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1635	0					700.40								
-24.0		1373		.70	.53	4	705.70	43	39	301	248	219	39	—	—
-72.0	~~-13.8~~	2146	-13.8	1.00	.74	5	711.98	46	40	308	249	229	39	7.2	13.0
-120.0		4010		1.00	.82	6	714.80	47	41	310	247	224	40	6.3	13.9
							718.76	PROBE MOVE & RESTART							
-24.00		5383		.33	.25		722.55	46	41	304	248	216	40	7.8	12.4
-72.00		6356		.80	.60	5	STOP→724.75 CHECK RESTART			725.07	247	226	39	7.1	13.1
-120.00		8420	-14.1	1.10	.82	7	728.56 / 735.20	45 / 49	43 / 43	310 / 309	247	227	41	6.6	13.6
-24.00		9393		.10	.074	2	737.15	46	43	305	249	217	40	7.2	13.0
-72.00		10466	-13.1	.80	.60	7	742.80	48	43	312	249	227	40	7.1	13.1
-120.00		12630		1.10	.82	11	749.40	49	43	313	247	227	41	7.0	13.2
	1855														
					0.583										
AVERAGE			-13.7	0.725	0.~~[illegible]~~		48.68	44.2		308				7.0	13.2

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	STK-5	METER BOX	3	CAL. DATA: delta H	1.878
PLANT	Greenidge	PITOT TUBE DESC		Y	1.096
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	
DATE	11/11/07	NOZZLE ID [inch]	.248	FILTER BOX SETTING	NA
OPERATOR(S)	BTN/MC	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	30	FILTER ID	123	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	24.21	K FACTOR	2.55	DUCT DIMENSIONS	13ft / DUCT AREA 132.732 ft2

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
		0					52.912								
-5.0	1640	7.5	.51	.45	1.2	5	053.3	50	49	152	272	232	47		
-16.4		15.0		.54	1.4	5.5	063.1	51	49	153	267	235	47		
-30.3		22.5		.5	1.3	5	67.43	54	49	154	269	241	44	8.9	10.4
-50.4		30.0		.50	1.3	5	72.40	55	50	154	253	240	49		
-5.0		37.5		.6	1.5	5.5	017.4	52	49	152	266	241	48	8.6	
-16.4		45.0		.61	1.6	5.5	083.4	57	51	154	266	242	47		
-30.3		52.5		.65	1.7	6	087.6	57	51	154	260	239	47		
-50.4		60.0		.66	1.7	6	092.74	54	52	154	261	237	44		
							092.84								
-5.0		67.5		.52	1.3	5	97.50	58	52	151	255	235	47	8.8	11.4
-16.4		75.0		.52	1.3	5	102.1	57	52	154	258	237	47		
-30.3		82.5		.56	1.4	5	107.0	57	52	155	257	240	47		
-50.4		90.0		.57	1.5	5.5	111.79	55	52	154	257	242	49		
									~~52~~				~~47~~		
-5.0		97.5		.52	1.3	5	116.5	58	52	154	254	242	48	8.7	
-16.4		105.0		.52	1.3	5	121	55	52	154	252	241	48		11.8
-30.3		112.5		.52	1.3	5	126.0	55	52	154	251	237	48		
-50.4		120.0		.57	1.5	5.5	131.659	57	52	154	252	237	49		
AVERAGE			-0.51	0.549	1.41		77.997	53.5		153.4				9.0	11.0

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 7 in. Hg; Post Test <0.01 ft^3 @ 8 in. Hg

Pitot Tube Leak Checks: PreTest <0.01 @ 6 in. H_2O; Post Test <0.01 @ 6 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 2

TEST ID	Economizer - 1 - Hg	METER BOX	N-2	CAL. DATA: delta H	1.779
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	0.985
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12	C(p)	NA
DATE	3/11/08	NOZZLE ID [inch]	3/16 B	FILTER BOX SETTING	NA
OPERATOR(S)	P Burg K. Pimenov	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	≈70	FILTER ID	1119	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.~~62~~59	K FACTOR	NA	DUCT DIMENSIONS	DUCT AREA

Comments: 1 Lp to 1024, Max 5 on Fuel #2, changed to solid fuel

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ Heated line [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0928	0					731.060								
Port 1	0933	5	6.0	NA	1.0	5	733.9	68	64	706	326	241	53	3.4	13.1
	0938	10	6.0		1.0	6	736.6	71	66	709	256	241	46	3.4	13.0
	0943	15	6.3		1.0	7	739.4	76	68	712	248	242	47	3.4	13.0
	0948	20	6.2		1.0	7	742.1	76	69	709	250	243	48	3.5	13.0
	0953	25	5.9		1.0	8	744.8	77	70	707	249	243	48	3.9	12.7
	0958	30	6.0		1.0	9	747.638	78	70	706	247	244	49	3.8	12.8
		45				Stop test change ports									
Port 2	1004	30					747.638								
	1009	35	6.2		1.0	8	750.4	70	68	638	249	243	50	5.8	11.2
	1014	40	6.0		1.0	8	753.1	68	67	640	240	241	46	5.8	11.4
	1019	45	5.8		1.0	8	755.9	68	67	638	251	238	48	5.7	11.4
	1024	50	5.8		1.0	9	758.6	69	67	638	245	236	48	5.5	11.6
	1029	55	6.0		1.0	10	761.7	71	67	640	250	235	49	5.6	~~11.4~~ 14.4
	1034	60	5.9		1.0	10	764.135	72	67	639	251	235	50	5.7	14.4
				Stop test, change ports leak check @ 22" Hg = .005 cfm											
		97.5													
		105													
		112.5													
		120													
AVERAGE			-6.0		1.0		66.248	65.6		658.2				4.1	13.8

Sample Train Leak Checks: Pre Test .002 ft^3 @ 10" in. Hg; Post Test ____ ft^3 @ ____ in. Hg

Pitot Tube Leak Checks: PreTest ____ @ ____ in. H_2O; Post Test ____ @ ____ in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOL ENERGY.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer-1-Hg	METER BOX	N-2	CAL. DATA: delta H	1.779
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	0.985
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12'	C(p)	NA
DATE	3/11/08	NOZZLE ID [inch]	3/16 B	FILTER BOX SETTING	NA
OPERATOR(S)	PCB, KP	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	1270	FILTER ID	1119	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]		K FACTOR	NA	DUCT DIMENSIONS	DUCT AREA

Comments:

Heated line

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER -BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1042	60					764.400	6	7	1	2	5	4		
Port 3	1047	65	6.0	NA	1.0	10	767.228	70	67	610	255	233	50	6.8	13.4
		15			Stop test for high O_2, leak check @ 17" Hg = .005, Recalibrate Mag 5										
	1053	65	6.0				767.400								
	1058	70	6.2		1.0	4.0	770.2	67	65	616	256	233	46		
	1103	75	6.3		1.0	5	773.0	67	65	615	250	233	46	6.5	13.7
	1108	80	6.0		1.0	5	775.7	68	65	617	249	232	46	6.1	14.0
	1113	85	6.0		1.0	5	778.6	67	64	619	248	232	47	6.5	13.7
	1118	90	6.1		1.0	5	781.295	67	63	620	249	230	47	6.2	13.9
		60		Stop test, change ports leak check @ 10" Hg = .005											
	1127	90					782.010								
	1132	95	6.0	NA	1.0	4	784.7	62	61	754	248	232	51	2.5	17.4
	1137	100	6.0		1.0	5	787.5	62	60	780	254	235	49	2.5	17.4
	1142	105	6.0		1.0	6	790.2	64	60	785	250	239	49	2.3	17.6
	1147	110	6.0		1.0	6	793.0	64	60	784	247	242	50	2.3	17.6
	1152	115	6.0		1.0	6	795.7	64	60	786	252	244	51	2.3	17.6
	1157	120	5.9		1.0	6	798.460	64	60	788	248	246	52	2.1	17.9
		105													
		112.5													
		120													
AVERAGE															

Sample Train Leak Checks: Pre Test _____ ft^3 @ _____ in. Hg; Post Test .002 ft^3 @ 13" in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	O.H. AHI 1	METER BOX	Rental	CAL. DATA: delta H	1.872
PLANT	AES Greenidge	PITOT TUBE DESC		Y	0.990
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]		C(p)	
DATE	3/11/08	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	K.C. SWR	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	82	FILTER ID	1196	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.~~04~~ .59	K FACTOR		DUCT DIMENSIONS	DUCT AREA

Comments: ☆ Bad Meter Vac Gauge

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX HL [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	09:30	0					963.40								
	09:35	5			1.0	~~1~~2.0	966.25	77	77		325	230	53	3.9	12.7
	09:40	10				~~1~~2.0	969.03	78	77		325	231	53	4.0	12.6
	09:45	15				7.0	971.84	79	78		325	231	54	3.9	12.6
	09:50	20				7.5	974.65	79	77		325	230	55	4.0	12.6
	09:55	25				8.0	977.44	78	77		325	230	56	4.2	12.6
	10:00	30				8.5	980.25	~~80~~ 78	78		325	230	56	4.4	12.3
	10:05	35				9.0	983.09	81	78		325	230	56	4.3	12.4
	10:10	40				9.5	985.88	81	78		325	230	57	4.2	12.5
	10:15	45				10.0	988.71	81	78		325	230	57	3.9	12.7
	10:20	50				10.5	991.65	82	79		325	230	57	4.0	12.6
	10:25	55				11.0	994.40	82	79		325	230	58	3.9	12.7
	10:30	60				12.0	997.20	83	80		325	230	58	4.0	12.6
						New start →	997.34								
	10:35	65				12.0	000.27	83	80		327	230	57	5.7	11.6
	10:40	70				13.0	003.04	83	80		325	230	57	5.2	11.7
	10:45	75				14.0	005.96	84	81		325	230	57	5.5	11.5
	10:50	80			0.7	13.0	008.48	84	81		324	230	58	5.6	11.4
	10:55	85				13.0	010.86	84	81		325	230	59	5.5	11.5
	11:00	90				13.5	013.22	84	82		325	230	59	5.4	11.5
	11:05	95				14.0	015.58	84	82		325	230	59	5.6	11.4
	11:10	100				14.0	017.92	84	82		325	230	59	5.9	11.2
	11:15	105				14.5	020.28	84	82		325	230	59	6.3	10.9
	11:20	110				15.0	022.67	84	82		325	230	59	6.6	10.6
	11:25	115				15.0	025.02	84	83		325	230	59	6.4	11.0
	11:30	120				16.0	027.34	84	83		325	230	59	6.1	11.1
AVERAGE					0.89		63.80	80.9			325.0	230.1	57.1	4.9	

Sample Train Leak Checks: Pre Test < 0.01 ft^3 @ 7 in. Hg; Post Test < 0.01 ft^3 @ 10 in. Hg

Pilot Tube Leak Checks: PreTest ____ @ ____ in. H_2O; Post Test ____ @ ____ in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AH01 Hg	METER BOX	4	CAL. DATA: delta H	1.744
PLANT	Greenidge	PITOT TUBE DESC	IE-3A	Y	1.002
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	12	C(p)	0.840
DATE	3/11/08	NOZZLE ID [inch]	1/4 D 0.260	FILTER BOX SETTING	NA
OPERATOR(S)	STL, RLO	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	1197	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.59	K FACTOR		DUCT DIMENSIONS	9 ft x 12 ft
				DUCT AREA	108 ft2

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	9:26	0					018.50								
24 ~~24.0~~	9	7 ~~14~~		0.95	1.20	5	022.70	31	28	297	267	213	30	8.7	11.7
24 ~~24.0~~		14		0.94		5	026.72	37	30	297	276	213	36	7.3	12.9
Top 72 ~~120.0~~		21	-16.41	1.1		5	030.90	41	31	297	277	216	38	7.3	12.9
72		28		1.0		5	034.67	43	32	304	283	216	40	7.0	13.2
120		35		1.1		5	038.65	44	33	303	285	217	41	6.8	13.4
120 ~~24.00~~	1010	42		1.1		5	042.64	46	35	301	263	217	42	6.7	13.5
~~72.00~~		~~35~~					43.00	~~44~~	~~36~~	~~295~~	~~277~~	~~216~~	~~39~~	~~7.7~~	~~12.7~~
24 ~~120.00~~	10:13	~~42~~ 7		0.35		6	047.30	44	36	295	277	216	39	7.7	12.7
24		14		0.38		6	051.25	47	37	297	281	219	42	7.1	13.1
Mid 72		21		0.88		6.5	055.31	48	38	297	278	219	43	7.1	13.6
72 ~~24.00~~		~~49~~ 28		0.88		7	059.24	49	39	298	274	219	43	7.0	13.2
120 ~~72.00~~		~~56~~ 35	-16.13	1.3		7	063.23	49	39	299	271	219	44	6.9	13.3
120 ~~120.00~~	1056 stop	~~63~~ 42		1.3		7	067.32	50	40	300	274	221	45	6.6	13.6
						~~7~~	67.60	~~47~~	~~41~~	~~297~~	~~268~~	~~222~~	~~43~~	~~8.9~~	~~12.0~~
24		7		0.20		8	071.67	47	41	297	268	222	43	8.7	12.0
Bottom 24		14		0.31		8	075.60	49	41	302	265	217	46	6.8	13.4
72		21	-15.88	1.0		9	079.60	50	41	302	269	217	47	7.0	13.2
72		28		1.0		9	083.55	51	41	307	265	217	48	6.7	13.5
120		35		0.46		10	089.45	51	42	309	252	218	49	6.6	13.6
120	stop 1142	42		0.45		10	091.55	51	42	308	254	218	49	6.6	13.6
AVERAGE		126	-16.14	0.77	1.20		72.41	41.5		299.4	270.9	217.4	42.5	7.1	

Sample Train Leak Checks: Pre Test < 0.01 ft^3 @ 10 in. Hg; Post Test < 0.01 ft^3 @ 12 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	1	METER BOX	50713	CAL. DATA: delta H	1.546
PLANT	AES Greenidge	PITOT TUBE DESC	E12	Y	0.993
LOCATION	Unit 4 Stack	PROBE LENGTH [ft]	8	C(p)	0.834
DATE	3-11-08	NOZZLE ID [inch]	1/4"A .248	FILTER BOX SETTING	NA
OPERATOR(S)	Mike BS	%H_2O (Assumed)	8	PROBE HTR SETTING	~~325~~ 250
AMBIENT TEMP [°F]	~30°	FILTER ID	128	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.~~82~~ 59	K FACTOR	2.77	DUCT DIMENSIONS	13 ft; DUCT AREA 132.732 ft^2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0932	0					843.40								
B-5		8		.60	1.68	7	848.67	30	29	—	252	216	34	—	
B-16-3/8"		16		.60	1.68	7	854.00	32	29	173	244	211	36	7.4	
B-30-1/4"		24	-.83	.65	1.80	8	859.63	33	31	174	236	211	40	—	
B-50-3/8"		32		.60	1.68	7	865.20	33	32	173	235	211	40	—	
C-5		40		.70	1.92	8	872.51	34	32	173	244	211	39	7.4	
C-16-3/8"		48		.70	1.92	8	876.95	36	33	173	244	216	40	—	
C-30-1/4"		56	-.79	.76	2.10	8.5	883.14	37	33	173	244	216	41	7.6	
C-50-3/8"		64		.70	1.92	8	889.11	38	34	173	240	209	42	—	
D-5		72		.65	1.80	8	895.00	39	34	174	252	212	44	—	
D-16-3/8"		80		.76	2.10	8.5	901.13	40	35	174	251	214	46	7.6	
D-30-1/4"		88	-.72	.70	1.92	8	907.12	42	36	173	251	206	49	—	
D-50-3/8"		96		.65	1.80	8	912.88	44	36	174	252	206	50	7.4	
A-5		104		.60	1.68	7.5	918.54	44	38	174	251	211	51	—	
A-16-3/8"		112		.60	1.68	7.5	924.20	45	39	175	251	210	51	7.7	
A-30-1/4"		120	-.70	.65	1.80	8	930.02	45	39	175	249	209	52	7.5	
A-50-3/8"	1155	128		.65	1.80	8	935.84	46	40	174	247	207	52	—	
AVERAGE			-0.76	~~0.67~~ 0.660	1.83		92.44	36.5		173.7	246.4	211.0	44.8	7.5	

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer - 2 - Hg	METER BOX	N-2	CAL. DATA: delta H	1.779
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	0.985
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12	C(p)	NA
DATE	7/11/08	NOZZLE ID [inch]	3/16B	FILTER BOX SETTING	NA
OPERATOR(S)	PCB / KP	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	≈70	FILTER ID	1198 1201	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.47	K FACTOR	NA	DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1327	0	~~-6.2~~	~~1.0~~			805.615	6	7	1	2	5	~~74~~		
Port 4	1332	5	-6.2	1.0	1.0	5	808.5	54	53	724	252	242	62	3.2	16.8
	1337	10	-6.0	NA	1.0	5	811.1	56	53	744	253	240	52	3.1	16.9
	13:42	15	-6.0	"	1.0	6	813.9	60	54	753	246	242	50	3.4	16.6
	13:47	20	-5.9	"	1.0	7	816.5	62	56	752	246	243	52	3.5	16.5
	13:52	25	-5.9	"	1.0	7.5	819.2	64	57	753	252	245	54	3.4	16.6
	1357	30	-6.1		1.0	9	821.985	66	58	755	255	245	56	3.5	16.5
		45			Stopped,	change	parts, leak check	@ 15"	= .08	cfm,	leak found	in filter			
Port 3	1440	30					825.410								
	1445	35	-6.0		1.0	3	826.243								
							Stopped,	change	filter	to 1201	, leak check	@ 10"	= .002		
Port 3	1450	35					826.503								
	1454	35	-6.0		1.0	4	828.9	72	68	612	248	239	48	6.3	14.0
	1459	40	-6.0		1.0	5	831.5	75	69	614	251	239	47	6.3	13.9
	15:04	45	-6.1		.75	4.5	833.9	75	69	617	249	239	44	6.6	13.6
	15:09	50	-6.1		.75	5	836.3	73	68	616	245	239	44	6.4	13.8
	1514	55	-6.3		.75	5	838.7	71	67	617	249	239	44	6.5	13.7
	1519	60	-6.4		.75	6	841.390	68	66	617	251	239	45	6.7	13.5
		112.5													
		120													
AVERAGE			-6.02		0.34		60.71	63.6		675.9				5.2	14.4

Sample Train Leak Checks: Pre Test 0.00 ft^3 @ 15 in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer - 2 - Hg
PLANT	AES Greenidge
LOCATION	Economizer outlet
DATE	3/11/08
OPERATOR(S)	PCB / KP
AMBIENT TEMP [°F]	≈65
BAR. PRESS. [" Hg]	

METER BOX	N-2
PITOT TUBE DESC	NA
PROBE LENGTH [ft]	12
NOZZLE ID [inch]	3/16 B
%H_2O (Assumed)	8
FILTER ID	1201
K FACTOR	NA

CAL. DATA: delta H	1.779
Y	0.985
C(p)	NA
FILTER BOX SETTING	NA
PROBE HTR SETTING	325
DUCT X-SECTION	circ ? rect ? other:
DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1525	60	~~-6.0~~	NA			841.390	6	7	1	2	5	4		
Point 2	1530	65	-6.0		0.75	5	843.7	63	63	609	239	240	46	5.6	14.6
	1535	70	-5.8		0.75	5.5	846.0	63	62	610	247	237	44	5.5	14.6
	15:40	75	-5.9		0.75	5.5	848.4	63	62	608	246	235	45	5.2	14.9
	15:45	80	-5.9		0.75	6	850.8	63	61	607	247	234	45	5.0	15.1
	15:50	85	-5.8		0.75	6	853.2	64	61	607	245	234	45	4.9	15.1
	15:55	90	-5.8		0.75	7	855.630	65	61	606	246	234	44	5.0	15.1
		45					Stop test, change parts								
	1558	90					855.630				changed T-couple				
	1603	95	-6.2		0.75	5	858.4	66	62	725	248	234	49	5.5	14.5
	16:08	100	-6.0		0.75	8	860.5	66	62	725	248	234	49	5.5	14.5
	16:13	105	-6.1		0.75	9	862.9	66	61	726	253	239	48	5.8	14.3
	16:18	110	-6.0		0.75	10	865.3	66	61	761	245	241	48	6.0	14.1
	16:23	115	-6.1		0.75	11	867.6	66	62	767	249	243	50	6.2	13.9
	16:28	120	-6.0		0.75	13	870.010	66	62	768	253	243	50	6.4	13.7
						Stop test, purge for 10 min									
		97.5													
		105													
		112.5													
		120													
AVERAGE															

Sample Train Leak Checks: Pre Test _____ ft^3 @ _____ in. Hg; Post Test 0.002 ft^3 @ 20 in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AHI Test 2	METER BOX	Rental	CAL. DATA: delta H	1.842
PLANT	AES Greenidge	PITOT TUBE DESC		Y	0.990
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]		C(p)	
DATE	3/11/08	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	K.C. L.W.R	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	88	FILTER ID	1199	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.47	K FACTOR		DUCT DIMENSIONS / DUCT AREA	

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ BOX ~~HL~~ [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	13:25	0					034.91								
	13:30	5			0.8	5.0	037.46	83	84		325	230	60	7.1	10.3
	13:35	10				5.0	040.02	83	84		325	230	57	8.2	9.5
	13:40	15				5.0	042.59	85	84		325	230	56	8.1	9.5
	13:45	20				6.0	045.49	85	84		325	230	57	~~7.9~~	~~7.6~~ 9.9
	13:50	25				6.0	047.95	86	84		325	230	58	8.0	9.6
	13:55	30				6.5	050.49	86	84		325	230	58	8.3	9.4
	14:00	35				7.0	053.00	86	84		325	230	59	8.5	9.3
	14:05	40				7.0	055.58	87	85		325	230	59	8.5	9.3
	14:10	45				7.5	058.86	87	85		325	230	60	8.8	9.0
	14:15	50				7.5	060.72	87	85		325	230	61	8.8	9.0
	14:20	55				8.0	063.25	87	85		325	230	60	8.8	9.0
	14:25	60				8.0	065.80	87	85		325	230	59	9.0	8.8
						NEW SAMPLE	066.36								
	14:35	65				9.0	068.96	87	85		326	230	60	4.4	12.3
	14:40	70				10.0	071.46	87	85		325	230	60	4.3	12.5
	14:45	75				11.0	073.98	87	85		325	230	59	4.5	12.3
	14:50	80				11.5	076.50	87	85		325	230	60	4.3	12.4
	14:55	85				12.0	079.01	87	85		325	230	61	4.3	12.4
	15:00	90				12.5	081.53	87	85		324	230	61	4.4	12.3
	15:05	95				13.0	084.05	88	85		325	230	62	4.3	12.4
	15:10	100				14.0	086.59	88	85		325	230	62	4.5	12.3
	15:15	105				14.5	089.12	88	86		325	230	59	4.4	12.3
	15:20	110				15.0	091.65	88	86		325	230	57	4.4	12.3
	15:25	115				15.0	094.22	88	86		325	230	57	5.6	11.4
	15:30	120				15.5	096.71	88	86		325	230	58	4.3	12.4
AVERAGE							61.24	85.8						6.40	~~[illegible]~~ 10.8

99.8

53.7

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 7 in. Hg
Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O
Post Test _____ @ _____ in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	AHO-2	METER BOX	4	CAL. DATA: delta H	1.744
PLANT	Greenidge	PITOT TUBE DESC	E-3A	Y	1.002
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	12	C(p)	
DATE	3/11/08	NOZZLE ID [inch]	1/4D	FILTER BOX SETTING	NA
OPERATOR(S)	STL - RLO	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	12 00	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.47	K FACTOR		DUCT DIMENSIONS	9 ft x 12 ft DUCT AREA 108 ft2

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	(7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	CO_2 [% vol]
	1330	0					100.90								
~~2-24.0~~	~~1340~~	7		0.88	1.2	5	105.00	39	38	294	250	225	36	~~7.1~~	~~11.7~~
~~2-72.0~~		14		0.88	1.2	5	109.00	41	38	296	260	224	40	7.5	~~10.7~~
Top 7-120.0		21	-15.38	1.0	1.2	5	113.04	45	38	296	260	224	42	7.5	12.7
72		28		1.0	1.2	5	116.93	47	39	302	259	226	44	7.5	12.7
120		35		1.0	1.2	5	121.06	49	39	304	260	226	45	7.5	12.7
1 2-24.00	1404 Stop	~~42~~		1.0	1.2	5.5	124.930	51	40	303	273	227	46	7.5	12.7
-72:00		35		~~0.40~~	~~1.2~~	~~6~~	~~125.10~~	~~49~~	~~42~~	~~295~~	~~268~~	~~225~~	~~43~~	~~7.1~~	
~~2-20:00~~	1413	~~42~~ 7		0.40	1.2	6	129.30	~~51~~ 49	43	~~295~~	267	226	43	7.1	13.1
2-4		14		0.36	1.2	6	133.31	51	43	301	271	227	47	7.1	13.1
Mid 72		21		0.94	1.2	6	137.32	53	43	302	280	227	48	7.0	13.2
7-24.00		28		0.93	1.2	7	141.45	54	44	301	280	227	49	6.9	13.3
1-72.00		35	-16.43	1.4	1.2	7	145.48	55	45	302	285	227	51	7.2	13.0
1-120.00	1455 Stop	~~42~~		1.4	1.2	7	149.580	55	46	303	279	228	53	6.8	13.4
							149.90								
24		7		0.25	1.2	7	154.13	~~44~~ 54	46	~~294~~	274	228	51	7.3	12.9
24		14		0.28	1.2	8	158.06	55	47	~~305~~ 304	273	227	54	7.3	12.9
Bottom 72		21		1.0	1.2	8	162.15	56	47	305	279	228	55	7.3	12.9
72		28		1.0	1.2	10	166.22	56	47	306	284	228	57	7.1	13.1
120		35	-16.31	0.80	1.2	10	170.300	57	48	307	285	228	58	7.0	13.2
120	1542 Stop	~~42~~		0.85	1.2	10	174.250	56	49	307	264	227	59	7.1	13.1
AVERAGE		126	-16.04	0.850	1.2		73.30	47.27		301.3				7.23	13.00

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 9 in. Hg
Post Test <0.01 ft^3 @ 12 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O
Post Test OK @ 6 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	TEST 2	METER BOX	80913	CAL. DATA: delta H	1.846	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	E12	Y	0.993		
LOCATION	Unit 4 Stack	PROBE LENGTH [ft]	8	C(p)			
DATE	3-11-08	NOZZLE ID [inch]	1/4" A	FILTER BOX SETTING	NA		
OPERATOR(S)	BS, AG	%H_2O (Assumed)	8	PROBE HTR SETTING	~~325~~ 250		
AMBIENT TEMP [°F]	~40°	FILTER ID	129	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.47	K FACTOR	2.77	DUCT DIMENSIONS	13 ft	DUCT AREA	132.732 ft^2

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ H.L. [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1330	0					945.80								
B-5		8		.50	1.38	7	950.56	42	40	190	248	206	45	—	
B-16-3/8"		16		.55	1.50	7.5	956.30	45	41	174	250	214	46	—	
B-30-1/4"		24	.74	.55	1.50	7.5	961.70	47	42	175	250	218	48	7.7	
B-50-3/8"		32		.70	1.92	8.5	967.67	48	43	174	248	218	48	—	
								~~[illegible]~~	~~45~~						
C-5		40		.70	1.92	8.5	973.73	50	45	175	252	214	48	—	
C-16-3/8"		48		.70	1.92	8.5	979.75	53	47	174	252	215	49	7.9	
C-30-1/4"		56	.80	.76	2.10	9	986.02	55	50	175	252	215	51	—	
C-50-3/8"		64		.70	1.92	8.5	992.11	56	52	175	250	210	52	7.8	
D-5		72		.60	1.68	8	997.90	56	53	175	250	205	48	7.7	
D-16-3/8"		80		.60	1.68	8	003.67	58	54	175	242	202	48	—	
D-30-1/4"		88	.72	.65	1.80	8	009.60	59	56	175	248	200	49	7.7	
D-50-3/8"		96		.60	1.68	8	015.38	60	57	174	246	200	49	—	
									~~60~~						
A-5		104		.55	1.50	7.5	020.86	62	60	174	252	201	50	—	
A-16-3/8"		112		.60	1.68	8	026.68	62	60	175	250	201	51	7.9	
A-30-1/4"		120	.74	.60	1.68	8	032.49	63	61	175	252	202	52	—	
A-50-3/8"	1544	128		.60	1.68	8	038.32	65	63	175	251	200	54	7.9	
AVERAGE			~~0.75~~	0.621	1.96		92.52	53.28		175.0				7.80	

Sample Train Pre Test OK ft^3 @ 10 in. Hg
Leak Checks: Post Test OK ft^3 @ 10 in. Hg

Pitot Tube PreTest OK @ 7 in. H_2O
Leak Checks: Post Test OK @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 2

TEST ID	Economizer - 3 - Hg	METER BOX	N-2	CAL. DATA: delta H	1.779	Comments:	Max 5 on Fuel #2 upto 1019
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	.985		
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12	C(p)	NA		
DATE	3/12/08	NOZZLE ID [inch]	3/16 B	FILTER BOX SETTING	NA		
OPERATOR(S)	PCB / KP	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	≈60	FILTER ID	1202	DUCT X-SECTION	circ ? rect ?	other:	
BAR. PRESS. [" Hg]	29.12	K FACTOR	NA	DUCT DIMENSIONS		DUCT AREA	

Heated Line

Elevator →

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0945	0					876.252	6	7		2	5	4		
Port 4	9:50	5	-6.2	NA	0.75	5	878.7	48	48	715	250	190	49	3.7	12.7
	9:55	10	-6.1		0.75	5.5	881.1	49	48	727	252	190	45	3.5	13.1
	10:00	15	-6.1		0.75	6	883.4	49	48	742	248	195	45	3.3	13.2
	10:05	20	-6.1		0.75	6	885.8	50	48	744	248	205	47	3.4	13.0
	1010	25	-5.9		0.75	7	888.1	52	48	749	253	214	49	3.2	13.2
	10:15	30	-6.0		0.75	7	890.501	53	49	750	249	217	51	3.3	13.2
	~~10:20~~	45			Stop-test change ports										
	1019	30					890.501								
	1024	35	-6.2		0.75	7	892.9	55	50	605	245	229	55	5.1	15.2
	1029	40	-6.2		0.75	7	895.3	57	51	604	252	226	50	5.1	~~14.8~~ 15.2
	1034	45	-6.0		0.75	8	897.6	59	53	604	247	225	50	4.8	15.3
	1039	50	-6.0		0.75	8	900.1	61	54	605	251	224	50	4.7	
	1044	55	-6.1		0.75	8	902.5	62	55	606	248	224	49	4.8	
	1049	60	-6.1		0.75	9	904.904	62	55	605	285	223	49	4.9	
		65	Port change												
	~~11:04~~	~~65~~	~~-6.1~~		~~0.75~~	~~7~~	~~907.3~~	~~55~~	~~53~~	~~621~~	~~246~~	~~240~~	~~46~~	~~5.8~~	
	~~11:09~~	~~70~~	~~-6.4~~		~~0.75~~	~~8~~	~~909.7~~	~~54~~	~~53~~	~~623~~	~~245~~	~~240~~	~~46~~	~~5.4~~	
	~~11:14~~	~~75~~	~~-6.3~~		~~0.75~~	~~8~~	~~912.1~~	~~54~~	~~53~~	~~623~~	~~245~~	~~247~~	~~46~~	~~5.5~~	
	~~11:19~~	~~80~~	~~-6.2~~		~~0.75~~	~~8~~		~~54~~	~~52~~	~~620~~	~~246~~	~~241~~	~~47~~		
AVERAGE			-6.11		0.75		49.848	52.9		659.3				4.2	

Fuel #4

Sample Train Pre Test 0.005 ft^3 @ 20 in. Hg
Leak Checks: Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube PreTest _____ @ _____ in. H_2O
Leak Checks: Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer -3-Hg
PLANT	AES Greenidge
LOCATION	Economizer outlet
DATE	3/12/08
OPERATOR(S)	PCB / KP
AMBIENT TEMP [°F]	270
BAR. PRESS. [" Hg]	

METER BOX	N-2
PITOT TUBE DESC	NA
PROBE LENGTH [ft]	12
NOZZLE ID [inch]	3/16 S
%H_2O (Assumed)	8
FILTER ID	1202
K FACTOR	NA

CAL. DATA: delta H	1.779
Y	0.985
C(p)	NA
FILTER BOX SETTING	NA
PROBE HTR SETTING	325
DUCT X-SECTION	circ ? rect ? other:
DUCT DIMENSIONS	DUCT AREA

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1058	60				Ø	904.904	6	7		2	5	4		
Port 2	11:04	65	-5.9	NA	0.75	6	907.3	55	53	621	246	240	46	5.8	
	11:09	70	-6.4		0.75	7	909.7	54	53	623	245	240	46	5.4	
	11:14	75	-6.3		0.75	8	912.1	54	53	623	245	247	46	5.5	
	11:19	80	-6.2		0.75	8	914.4	54	52	620	246	241	47	5.5	
	11:24	85	-6.3		0.75	8	916.8	55	52	620	245	241	48	5.5	
	11:29	90	-6.3		0.75	8	919.009	55	52	618	249	241	49	5.4	
		45			Stop tes, change port										
							919.009								
	1132	92					921.2	54	52	675	249	247	54	2.1	
Port 1	1137	95	-6.0		0.75	9	923.7	54	52	696	247	247	50	2.1	
	1142	100	-5.9		0.75	14	926.100	54	51	695	247	247	49	1.9	
	1147	105	-6.0		0.75	16									
		1 75			Stop test for high vacuum, 20" at time 105 min										
		82.5			Purge at 0.75 ΔH for 10 min										
		90													
		97.5													
		105													
		112.5													
		120													
AVERAGE															

Sample Train Leak Checks: Pre Test _____ ft^3 @ _____ in. Hg; Post Test 0.005 ft^3 @ 20 in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

NOTE: Purge for 10 minutes at end of sampling.

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	A.H.I Test 3	METER BOX	50950	CAL. DATA: delta H	1.842	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	0.990		
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]		C(p)			
DATE	3/12/08	NOZZLE ID [inch]		FILTER BOX SETTING	NA		
OPERATOR(S)	K.C. - L.W.R.	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	82	FILTER ID	1203	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.12	K FACTOR		DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	09:45	0					109.86								
	09:50	5			0.80	5.0	112.46	83	84		326	231	64	4.3	15.8
	09:55	10			"	6.0	114.97	84	83		325	230	60	3.8	16.2
	10:00	15			"	6.5	117.48	84	84		325	231	59	3.7	16.3
	10:05	20			"	7.0	119.99	85	84		325	230	58	3.7	16.3
	10:10	25			"	7.0	122.48	85	84		325	230	59	3.5	16.5
	10:15	30			"	8.0	124.98	86	84		325	231	59	3.5	16.5
	10:20	35			"	9.0	127.48	87	85		325	230	60	3.4	16.6
	10:25	40			"	9.0	129.99	87	85		326	231	60	3.6	16.4
	10:30	45			"	9.5	132.52	88	86		325	230	60	3.6	16.4
	10:35	50			"	10.5	135.00	88	86		326	231	61	3.5	16.5
	10:40	55			"	11.0	137.56	88	86		325	231	61	3.4	16.6
	10:45	60			"	11.5	140.08	89	86		327	230	60	3.6	16.4
						NEW NOZZLE →	140.20								
	10:50	65			0.80	11.5	142.81	89	87		325	231	58	5.8	14.3
	10:55	70			"	12.0	145.33	89	87		326	230	56	5.8	14.4
	11:00	75			"	12.5	147.83	90	88		325	231	56	5.9	14.3
	11:05	80			"	13.0	150.36	90	88		325	230	56	6.3	13.9
	11:10	85			"	13.5	152.88	90	88		325	230	56	6.4	13.8
	11:15	90			"	14.0	155.38	90	89		326	231	57	5.8	14.2
	11:20	95			"	14.5	157.87	90	89		325	230	57	5.8	14.2
	11:25	100			"	15.0	160.37	90	89		326	231	58	5.9	14.2
	11:30	105			"	15.5	162.86	90	89		325	230	58	6.1	14.0
	11:35	110			"	16.0	165.30	90	89		325	230	58	6.1	14.0
	11:40	115			"	16.0	167.79	90	89		325	230	59	6.1	14.0
	11:45	120			"	16.0	169.99	90	90		325	230	59	6.3	13.9
AVERAGE					0.80		60.01	87.3			325.3			4.8	15.2

Sample Train Pre Test <0.01 ft^3 @ 7 in. Hg
Leak Checks: Post Test <0.01 ft^3 @ 7 in. Hg

Pitot Tube PreTest ____ @ ____ in. H_2O
Leak Checks: Post Test ____ @ ____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ___ of ___

TEST ID	AHO-3	METER BOX	NC-4	CAL. DATA: delta H	1.744
PLANT	Greenidge	PITOT TUBE DESC	E-3A	Y	1.002
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	12	C(p)	
DATE	3/12/08	NOZZLE ID [inch]	1/4 D	FILTER BOX SETTING	NA
OPERATOR(S)	RLO	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	1204	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.	K FACTOR		DUCT DIMENSIONS (6) (7)	9 ft x 12 ft
				DUCT AREA	108 ft2

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP (1) [°F]	PROBE TEMP (2) [°F]	FILTER BOX (3) [°F]	LAST IMP TEMP (4) [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	943	0					180.70								
-24.0		7		0.95	1.00	5	185.16	41	39	297	216	222	36	7.4	12.8
24 -72.0		14		0.93		5	189.04	44	40	297	239	218	38	7.2	13.0
TOP 72 -120.0		21		1.0		5	192.80	46	40	299	242	217	39	7.0	13.2
72		28		1.0		5	196.65	47	41	304	241	216	40	7.1	13.1
100		35	-16.16	1.2		5	200.50	48	41	305	248	217	41	7.1	13.1
100 -24.00	1030	42		1.1		5	204.30	48	41	305	222	215	41	6.4	13.7
-72.00	1030	35				6	204.50								
24 -120.00	1030	7		0.42		6	208.26	46	42	301	227	217	39	6.6	13.5
24		14		0.42		6	212.07	47	42	305	244	216	41	6.6	13.5
MID 72		21		0.95		7	215.88	47	42	306	244	217	42	6.7	13.4
72 -24.00		28		0.93		7	219.75	48	42	306	247	218	43	6.4	13.2
-72.00		35		1.1		7.5	223.58	48	42	308	244	217	43	6.1	14.0
100 -120.00	1112	42	-16.5	1.1		8.5	227.40	48	42	308	235	217	43	6.2	13.9
	1116						227.70								
-24		7		0.92		9	231.66	46	42	299	255	218	41	7.2	13.0
BOT 24		14		0.95		10	235.46	47	42	307	222	217	43	7.2	13.0
72		21	-16.20	1.10		10.5	239.28	48	42	311	248	217	44	7.1	13.1
72		28		1.10		10.5	243.13	48	42	311	249	218	45	7.2	13.0
100		35		1.[illegible]	0.40	10.5	246.92	48	43	311	251	218	44	6.9	13.3
100	1158	42		0.40		11.5	250.74	48	43	312	251	218	44	7.0	13.2
AVERAGE		126	-16.31	0.777	1.00		69.54	44.2		304.8				6.8	13.3

Sample Train Pre Test 20.01 ft^3 @ 9 in. Hg
Leak Checks: Post Test 20.01 ft^3 @ 8 in. Hg

Pitot Tube PreTest OK @ 6 in. H_2O
Leak Checks: Post Test OK @ 8 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	TEST 3	METER BOX	80913	CAL. DATA: delta H	1.846
PLANT	AES Greenidge	PITOT TUBE DESC	E 12	Y	0.993
LOCATION	Unit 4 Stack	PROBE LENGTH [ft]	8	C(p)	
DATE	3-12-08	NOZZLE ID [inch]	1/4" A	FILTER BOX SETTING	NA
OPERATOR(S)	BS, AG	%H_2O (Assumed)	8	PROBE HTR SETTING	~~325~~ 250
AMBIENT TEMP [°F]	~32°	FILTER ID	124	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.12	K FACTOR	2.77	DUCT DIMENSIONS	13 ft; DUCT AREA 132.732 ft^2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER -BOX- [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0945	0					052.10								
B-5		8		.55	1.50	5.5	057.37	40	37	173	233	191	43	—	
B-16-3/8"		16		.60	1.68	6	063.00	42	38	175	232	194	42	7.6	
B-30-1/4"		24	-.83	.60	1.68	6	068.64	43	38	175	230	193	43	—	
B-50-3/8"		32		.60	1.68	6.5	074.24	43	38	174	234	195	44	7.5	
C-5		40		.65	1.80	7	080.11	43	39	175	233	198	41	—	
C-16-3/8"		48		.70	1.92	7.5	086.07	43	39	175	233	201	42	7.4	
C-30-1/4"		56	-.74	.76	2.10	8	092.30	44	39	176	233	201	45	—	
C-50-3/8"		64		.76	2.10	8	098.67	44	40	176	240	204	45	7.4	
D-5		72		.60	1.68	7	104.44	43	40	175	237	199	46	—	
D-16-3/8"		80		.70	1.92	7.5	110.44	44	40	175	234	198	47	7.5	
D-30-1/4"		88	-.71	.76	2.10	8	116.74	45	41	176	237	199	49	—	
D-50-3/8"		96		.76	2.10	8	123.00	45	41	175	235	204	50	7.4	
A-5		104		.55	1.50	7	128.38	45	41	174	241	199	51	—	
A-16-3/8"		112		.65	1.80	7.5	134.24	45	41	175	237	198	51	7.5	
A-30-1/4"		120	-.70	.76	2.10	8.5	140.52	46	42	175	236	197	53	—	
A-50-3/8"	1206	128		.76	2.10	8.5	146.84	46	42	175	234	204	54	7.5	
AVERAGE			-0.745	0.670	1.86		94.74	41.75		174.9				7.5	

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer - 4 - Hg	METER BOX	N-2	CAL. DATA: delta H	1.779
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	0.985
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12'	C(p)	NA
DATE	3/12/08	NOZZLE ID [inch]	3/16 B	FILTER BOX SETTING	NA
OPERATOR(S)	PCB / KP	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	265	FILTER ID	1205	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.12	K FACTOR	NA	DUCT DIMENSIONS / DUCT AREA	

Comments:

Heated Line

elevator #

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1350	0		NA			932.176	6	7		2	5	4		
Port #1	13:55	5 7.5	-5.4		0.75	4	934.7	46	47	708	247	248	59	4.5	
	14:00	10 15	-5.7		0.75	5	937.1	48	47	714	254	244	48	4.7	
	14:05	15 22.5	-5.6		0.75	5	939.5	50	47	720	247	244	47	4.7	
	14:10	20 30	-5.7		0.75	5.5	941.9	51	47	722	250	245	49	4.6	
	14:15	25	-5.7		0.75	5.5	944.3	53	48	722	251	246	50	4.6	
	14:20	30 37.5	-5.6		0.75	6	946.675	55	49	725	249	247	51	4.6	
Port 2		45			Stop test, change ports										
	1424	30					946.675	55							
	1429	35 45	-6.1		0.75	6	949.0	55	50	619	247	246	54	5.3	
	14:34	40	-6.0		0.75	6	951.4	56	51	621	2481	243	47	5.0	
	14:39	45 57.5	-6.1		0.75	6	953.8	58	52	621	242	241	48	5.0	
	14:44	50 70	-6.0		0.75	7	956.1	59	52	620	249	240	48	5.0	
	14:49	55 82.5	-6.0		0.75	7	958.5	59	53	620	245	240	49	5.0	
	14:54	60 90	-6.1		0.75	7	960.886	59	53	621	245	239	49	5.1	
					Stop test, change ports										
		97.5													
		105													
		112.5													
		120													
AVERAGE			-5.83				28.71	51.88		669.4				4.84	

Sample Train Leak Checks: Pre Test .002 ft^3 @ 16" in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

-5.83 0.75 57.59 54.4 668.4

NOTE: Purge for 10 minutes at end of sampling.

4.5

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	Economizer - 4-Hg	METER BOX	N-2	CAL. DATA: delta H	1.779	Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC	NA	Y	0.985		
LOCATION	Economizer outlet	PROBE LENGTH [ft]	12	C(p)	NA		
DATE	3/12/08	NOZZLE ID [inch]	3/16 B	FILTER BOX SETTING	NA		
OPERATOR(S)	PCB / KP	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	60	FILTER ID	1205 / 1171	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.12	K FACTOR	NA	DUCT DIMENSIONS		DUCT AREA	

Heated Line

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1500	60					960.886								
Port #3	1505	65	-6.0	NA	0.75	6	963.3	57	53	619	251	228	54	4.9	
	1510	70	-6.1		0.75	6	965.6	58	54	619	251	221	45	4.9	
	1515	75	-6.3		0.75	7	968.1	59	54	620	248	217	42	5.0	
	1520	80	-6.1		0.75	9	970.4	59	54	618	248	214	41	5.2	
	1525	85	-6.1		0.75	9	972.8	54	54	618	249	213	41	4.8	
	1530	87	-6.1		0.75	10	973.590	59	55	616	250	213	41	4.8	
		45			Stop test,	change filter		leak	check @	24" =	.005				
	1540	87					973.860								
	1543	90	-6.2		0.75	4	975.520	57	55	628	251	225	49		
					stop test, change parts										
Port #4	1546	90	~~-5.8~~				975.520	~~57~~	~~55~~						
	1551	95	-5.8		0.75	5	977.8	57	55	705	249	233	46	3.0	
	1556	100	-5.9		0.75	5	980.5	58	55	711	245	236	43	3.1	
	16:01	105	-5.9		0.75	6	982.9	60	55	727	251	240	43	3.1	
	16:06	110	-6.0		0.75	6	985.3	60	56	727	247	242	44	3.0	
	16:11	115	-5.9		0.75	6	987.7	62	56	733	251	244	45	3.6	
	16:16	120	-5.9		0.75	7	990.038	62	56	734	250	245	46	3.6	
		112.5			stop test, purge for 10 min										
		120													
AVERAGE			-6.02		0.75		28.88	56.88		667.3				4.08	

Sample Train Leak Checks: Pre Test _____ ft^3 @ _____ in. Hg; Post Test 0.002 ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	AHI Test 4	METER BOX	80950	CAL. DATA: delta H	1.842
PLANT	AES Greenidge	PITOT TUBE DESC		Y	0.990
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]		C(p)	
DATE	3/12/08	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	K. C. – L. W. R	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	94	FILTER ID	1206	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.12	K FACTOR		DUCT DIMENSIONS	DUCT AREA

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	13:50	0					174.21								
	13:55	5			0.80	5.0	176.74	88	86		325	230	53	6.1	14.1
	14:00	10			"	5.0	179.27	87	88		324	230	51	5.9	14.2
	14:05	15			"	5.5	181.80	88	88		325	231	49	5.9	14.2
	14:10	20			"	6.0	184.33	89	88		325	230	49	6.0	14.2
	14:15	25			"	6.0	186.85	89	89		325	230	49	6.1	14.1
	14:20	30			"	6.5	189.38	89	89		325	230	50	6.1	14.1
	14:25	35			"	7.0	191.91	90	89		325	230	51	6.2	14.0
	14:30	40			"	7.0	194.44	90	89		325	230	51	6.3	13.9
	14:35	45			"	7.5	196.99	91	89		325	230	52	6.2	14.1
	14:40	50			"	8.0	199.57	91	89		325	230	53	6.4	13.8
	14:45	55			"	8.0	202.12	91	89		325	230	54	6.3	13.9
	14:50	60			"	8.5	204.66	91	90		325	230	55	6.1	14.0
						NEW START →	204.74								
	14:55	65			0.80	8.0	207.33	90	89		328	230	56	3.8	16.2
	15:00	70			"	9.0	209.83	91	89		326	231	57	3.6	16.4
	15:05	75			"	10.0	212.34	91	90		325	230	58	3.6	16.4
	15:10	80			"	10.5	214.87	91	90		325	230	59	3.5	16.5
	15:15	85			"	11.0	217.37	91	90		325	230	60	3.8	16.2
	15:20	90			"	12.0	219.88	91	90		325	230	60	3.7	16.3
	15:25	95			"	12.5	222.45	91	90		325	230	61	3.7	16.3
	15:30	100			"	12.5	225.00	92	90		325	230	61	3.6	16.4
	15:35	105			"	13.0	227.5[illegible]	91	90		325	230	62	3.5	16.5
	15:38	110			"	13.0	229.28	91	90		325	230	62	3.5	16.5
		115													
		120													
AVERAGE							54.99	89.66			325.1			5.00	15.10

73.6 168.6

Sample Train Pre Test 40.01 ft^3 @ 7 in. Hg
Leak Checks: Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube PreTest _____ @ _____ in. H_2O
Leak Checks: Post Test _____ @ _____ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ___ of ___

TEST ID	AHO-4 Hg	METER BOX	NE-4	CAL. DATA: delta H	1.744
PLANT	Greenidge	PITOT TUBE DESC	E-3A	Y	1.002
LOCATION	Air Heater Outlet	PROBE LENGTH [ft]	12	C(p)	
DATE	3/12/08 pm	NOZZLE ID [inch]	1/4-D	FILTER BOX SETTING	NA
OPERATOR(S)	STL - RW	%H_2O (Assumed)	8	PROBE HTR SETTING	250
AMBIENT TEMP [°F]		FILTER ID	1207	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	28.12	K FACTOR		DUCT DIMENSIONS	9 ft x 12 ft
				DUCT AREA	108 ft2

Comments: 10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1350	0					257.20								
-24.0		7		0.90	1.0	4	261.10	40	41	290	233	230	36	7.4	12.8
0 24		14		0.90		4	264.95	43	40	275	249	220	38	7.4	12.8
72 -120.0		21	-16.16	0.96		5	268.83	46	40	301	255	224	40	7.5	12.7
72		28		0.98		5	272.55	47	41	301	262	226	41	7.5	12.7
120		35		1.1		5	276.38	48	41	304	263	229	43	7.3	12.9
120 -24.00	1432	42		1.1		5.5	280.20	49	41	304	250	229	44	7.5	12.7
-72.00	1435	35					280.50								
24 -120.00		7		0.35		5	284.40	47	42	290	247	229	42	7.4	12.8
0 24		14		0.33		6	288.18	47	42	305	250	228	43	7.1	13.1
72		21	-16.10	0.92		6.5	291.99	48	42	305	250	228	44	6.8	13.3
72 -24.00		28		0.92		6.5	295.83	48	42	306	249	228	44	6.8	13.3
120 -72.00		35		1.0		7	299.68	48	43	308	251	228	45	6.6	13.5
120 -120.00	1517	42		1.2		8	303.51	48	43	309	243	228	46	6.6	13.5
	1520					8	303.80								
24		7		0.20		8	307.65	47	42	291	243	229	44	7.2	13.0
24		14		0.20		9	311.46	48	42	308	249	229	47	6.9	13.2
72		21	-16.06	0.98		9.5	315.33	49	43	312	265	229	49	6.6	13.5
72		28		0.99		10	319.10	49	43	313	272	230	50	7.2	13.0
120		35		0.52		10	322.92	49	43	312	269	230	50	7.3	13.0
120	1602	42		0.52		11	326.75	49	43	311	268	230	51	7.3	12.9
AVERAGE		126	-16.11	0.739	1.00		68.96	44.56		303.6				7.13	13.09

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 10 in. Hg; Post Test <0.01 ft^3 @ 12 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 8 in. H_2O; Post Test OK @ 8 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	TEST 4
PLANT	AES Greenidge
LOCATION	Unit 4 Stack
DATE	3-12-08
OPERATOR(S)	BS, AG
AMBIENT TEMP [°F]	~36°
BAR. PRESS. [" Hg]	29.12

METER BOX	80913
PITOT TUBE DESC	E 12
PROBE LENGTH [ft]	8
NOZZLE ID [inch]	1/4" A
%H_2O (Assumed)	8
FILTER ID	130
K FACTOR	2.77

CAL. DATA: delta H	1.846
Y	0.993
C(p)	
FILTER BOX SETTING	NA
PROBE HTR SETTING	~~325~~ 250
DUCT X-SECTION	circ ? / rect ? / other:
DUCT DIMENSIONS	13 ft
DUCT AREA	132.732 ft^2

Comments:

H.L.

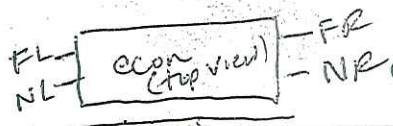
TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1350	0					156.60								
B-5		8		.60	1.68	8	162.26	40	39	175	236	210	42	—	
B-16-3/8"		16	-.69	.70	1.92	8	168.12	42	39	175	235	212	42	7.7	
B-30-1/4"		24		.76	2.10	8.5	—	43	40	175	235	210	46	—	
B-50-3/8"		32		.76	2.10	8.5	180.34	44	41	176	238	195	46	7.6	
C-5		40		.65	1.80	8	186.04	44	41	175	244	196	44	—	
C-16-3/8"		48		.70	1.92	8	191.90	45	41	175	238	198	43	7.6	
C-30-1/4"		56	-.72	.76	2.10	8	198.00	45	41	176	242	197	45	—	
C-50-3/8"		64		.76	2.10	8	204.09	45	41	176	240	195	45	7.6	
									~~42~~						
D-5		72		.55	1.50	7	209.34	46	42	174	238	193	44	—	
D-16-3/8"		80		.60	1.68	7.5	214.90	46	42	175	232	191	44	7.6	
D-30-1/4"		88	-.71	.65	1.80	8	220.60	46	42	175	233	189	44	—	
D-50-3/8"		96		.60	1.68	7.5	226.14	47	42	175	241	190	45	7.5	
A-5		104		.55	1.50	7	231.44	47	43	175	241	190	46	—	
A-16-3/8"		112		.60	1.68	7.5	237.00	47	43	175	236	190	46	7.6	
A-30-1/4"		120	-.75	.65	1.80	8	242.75	47	43	176	234	190	46	—	
A-50-3/8"	1614	128		.65	1.80	8	248.50	47	43	175	237	189	47	7.6	
AVERAGE			-0.72	0.659	1.82		91.90	43.85		175.2				7.60	

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	Window EO-1	METER BOX	CAF 202315	CAL. DATA: delta H	1.8479
PLANT	Greenidge	PITOT TUBE DESC	NA	Y	0.9934
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	
DATE	5/19/08	NOZZLE ID [inch]	1/4" 0.255	FILTER BOX SETTING	NA
OPERATOR(S)	RLO	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	76	FILTER ID	1189	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.00	K FACTOR	NA	DUCT DIMENSIONS	DUCT AREA

Comments: Constant rate - nozzle out of flow purged for 10 min after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1131pm	0					729.30								
Far Left	1141 pm	10	-2.40		0.60	3	733.63	76	76	552	303	214	58	6.1	14.0
	1151 pm	20	-2.54		↓	3.5	737.91	81	72	552	305	217	56	6.1	14.0
	1201 am	30	-2.36		↓	4	742.18	89	78	551	309	218	57	6.1	14.0
Near Left	1205 am						742.30		Leak	ck	<0.01 @ 10" Hg				
	1215 am	40	-2.62		0.60	4	746.57	93	85	528	315	220	61	6.6	13.6
	1225 am	50	-2.59		↓	5.5	750.90	95	87	527	324	216	60	6.8	13.4
	1235 am	60	-2.47		↓	7	755.18	97	89	527	324	215	60	6.9	13.3
Near Right	1239 am						755.40	~~88~~	~~87~~	Leak	ck	<0.01	@ 12" Hg		
	1249 am	70	-2.61		0.60	7.5	759.71	88	87	535	296	210	57	8.0	12.3
	1259 am	80	-2.63		↓	8.5	764.09	83	85	536	273	209	53	7.9	12.4
	1:09 am	90	-2.65		↓	9	768.36	81	82	535	268	208	53	7.8	12.5
	1:13 am						768.60			Leak ck	<0.01 @ 13" Hg				
Far Right	1:23 am	100	-2.79		0.60	9	772.89	80	80	594	290	203	53	6.3	13.9
	1:33 am	110	-2.81		↓	10.5	777.17	79	79	594	317	204	53	6.3	13.9
	1:43 am	120	-2.65		↓	11.5	781.40	82	78	594	327	205	53	6.2	14.0
AVERAGE			-2.59		0.60		51.52	83.4		552.1				6.8	13.4

Sample Train Pre Test <0.01 ft^3 @ 12 in. Hg
Leak Checks: Post Test <0.01 ft^3 @ 15 in. Hg

Pitot Tube PreTest ____ @ ____ in. H_2O
Leak Checks: Post Test ____ @ ____ in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ___ of ___

TEST ID	OH #1	METER BOX	N-4	CAL. DATA: delta H	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	1.002
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]	3	C(p)	
DATE	5/19	NOZZLE ID [inch]	¼C	FILTER BOX SETTING	NA
OPERATOR(S)	AB KRC	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]		FILTER ID	1191	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.00	K FACTOR		DUCT DIMENSIONS	DUCT AREA

Comments: Constant Sample Rate. Nozzle out of Flow

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP 6 [oF] 7 inlet	METER TEMP outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	FILTER BOX [°F] HL #5 4	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	2332	0					442.726								
	2337	5			0.75	3.5	445.300	89	88		327	239	49		
	2342	10			0.75	3.7	447.810	90	88		318	240	48		
	2347	15			0.75	4.0	450.330	92	89		328	222	47	10.7	8.9
	2352	20			0.75	4.2	452.850	93	89		323	223	47	13.2	7.1
	2357	25			0.75	4.2	455.360	95	89		318	223	49	13.5	4.6
rest	~~2302~~	30			0.75	4.5	457.850	95	90		324	224	49	~~10.0~~	
Pause	0007	35			0.75	5.0	460.370	96	90		318	225	50	~~16.9~~	
Restart 0012	0017	40			0.75	5.2	~~460.5~~ 463.06	96	92		316	225	50	6.7	13.5
	0022	45			0.75	5.8	465.545	96	92		318	226	51	7.0	13.2
	0027	50			0.75	6.0	468.035	96	92		323	227	51	6.9	13.3
	0032	55			0.75	6.5	470.530	95	92		319	227	51	7.1	13.2
Pause Port change 0037	0037	60			0.75	6.8	473.023	95	92		321	228	52	7.2	13.0
	restart 0042				0.75	7.0	475.587	93	92		325	253	53	7.9	12.3
	0047	65			↓	↓	↓	↓	↓		↓	↓	↓	↓	↓
	0052	70			0.75	7.5	478.010	93	92		327	251	52	8.1	12.1
	0057	75			0.75	7.8	480.490	93	92		320	248	52	7.7	12.5
	0102	80			0.75	8.0	483.000	93	92		323	250	52	7.9	12.3
	0107	85			0.75	8.5	485.520	93	92		319	245	52	7.9	12.3
	0112	90			0.75	9.0	488.030	93	92		330	250	53	7.9	12.3
	0117	95			0.75	9.2	490.540	93	92		324	248	54	8.0	12.2
	0122	100			0.75	9.9	493.050	93	92		328	243	54	7.8	12.4
	0127	105			0.75	10.1	495.560	93	92		329	243	54	7.9	12.3
	0132	110			0.75	10.5	498.075	93	91		318	251	54	7.8	12.4
	0137	115			0.75	11.0	500.580	92	90		322	250	54	7.8	12.4
	0142	120			0.75	11.2	503.081	92	90		319	246	54	7.8	12.4
AVERAGE					0.75		57.821	92.2						7.4	

Found disc. dust line.

Ave O_2 = 6.98

Ave O_2 = 7.88

Sample Train Leak Checks:	Pre Test	70.00 ft³ @ 15 in. Hg @0007 70.01 @12"	Pitot Tube Leak Checks:	PreTest	___ @ ___ in. H_2O
	Post Test	70.01 ft³ @ 15 in. Hg		Post Test	___ @ ___ in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	#1	METER BOX	~85	CAL. DATA: delta H	1.883
PLANT	Greenidge	PITOT TUBE DESC	E12A	Y	~~1.0~~ 0.991
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	5-19-08	NOZZLE ID [inch]	1/4"A 0.260	FILTER BOX SETTING	NA
OPERATOR(S)	BS, PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~45°	FILTER ID	142	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.00	K FACTOR	3.087	DUCT DIMENSIONS	13ft
				DUCT AREA	132.732 ft2

Comments:

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ H.L. [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	2330	0					408.20								
-5.0		7.5		.20	.63	1	411.54	50	50	132	247	303	42	—	—
-16.4		15.0		.23	.74	1.5	415.12	51	50	173	249	306	40	—	—
-30.3		22.5	-.409	.28	.88	2	419.00	53	51	174	252	305	41	10.6	—
-50.4		30.0		.28	.88	2	422.88	54	52	174	249	306	41	10.4	—
-5.0		37.5		.23	.74	2	426.23	55	53	126	250	305	41	—	—
-16.4		45.0		.27	.85	2	430.30	55	53	174	246	306	41	10.0	—
-30.3		52.5		.28	.88	2.5	434.21	57	54	175	244	306	41	—	—
-50.4		60.0	-.387	~~.30~~ .28	~~.95~~ .88	2.5	438.11	58	55	175	250	306	42	10.3	—
-5.0		67.5		.20	.63	1.5	441.24	57	55	~~172~~ 136	250	306	43	—	—
-16.4		75.0		.23	.74	2	445.11	58	56	174	248	306	43	10.3	—
-30.3		82.5		.28	.88	2.5	449.02	59	57	175	249	305	43	10.3	—
-50.4		90.0	-.404	.30	.95	2.5	453.10	60	57	175	246	305	42	—	—
-5.0		97.5		.23	.74	2	456.70	59	57	140	250	305	42	—	—
-16.4		105.0		.27	.85	2.5	460.58	59	56	174	251	305	42	10.3	—
-30.3		112.5		.28	.88	2.5	464.50	59	56	175	242	305	43	—	—
-50.4	0147	120.0	-.431	.30	.95	2.5	468.62	60	56	175	250	303	43	10.3	—
AVERAGE			-0.408	0.258	0.819		60.42	55.4		164.2				10.3	

Sample Train Leak Checks: Pre Test 0.15 ft^3 @ 10 in. Hg; Post Test ____ ft^3 @ ____ in. Hg

Pitot Tube Leak Checks: PreTest 0.15 @ 7 in. H_2O; Post Test ____ @ ____ in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	Econ Out-2	METER BOX	202815	CAL. DATA: delta H	1.8479
PLANT	Greenidge	PITOT TUBE DESC		Y	.9934
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	
DATE	5/20/08	NOZZLE ID [inch]		FILTER BOX SETTING	NA
OPERATOR(S)	RW, KC	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	65	FILTER ID	1190	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.03	K FACTOR		DUCT DIMENSIONS	DUCT AREA

Comments: 12' probe
10' into duct
10 min purge after test

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER~~ Loaded BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	3:05 pm	0					786.90								
	3:15 pm	10	-2.77		0.65	4	791.39	68	68	604	325	201	47	6.4	13.8
Far Right	3:25 pm	20	-2.82		0.65	4.5	795.77	69	67	609	323	204	47	6.4	13.8
	3:35 pm	30	-2.87		0.65	4.5	800.13	69	68	608	323	206	48	6.4	13.8
	3:39 pm						800.50		Leak ck		<0.01	@ 9"	Hg		
Near Right	3:49 pm	40	-2.85		0.65	5	804.66	69	67	536	310	204	48	8.3	12.0
	3:59 pm	50	-2.63			5.5	809.05	72	67	536	292	205	47	8.0	12.3
PJ	4:09 pm	60	-2.68			6	813.43	72	70	535	263	205	49	7.9	12.4
	4:14 pm						813.60		Leak ck		<0.01	@ 10"	Hg		
Near Left	4:24 pm	70	-2.69		0.65	7	818.01	72	71	532	296	223	51	6.6	13.4
	4:34 pm	80	-2.65			7.5	822.35	73	70	533	313	224	52	6.6	13.4
	4:44 pm	90	-2.71			8	826.67	73	70	533	319	225	53	6.6	13.4
	4:47 pm						826.80		Leak ck		<0.01	@ 12"	Hg		
Far Left	4:57 pm	100	-2.57		0.65	9	831.15	70	68	608	296	224	53	7.0	13.2
	5:07 pm	110	-2.60			10	835.43	71	68	613	303	223	53	7.0	13.2
	5:17 pm	120	-2.60			11	839.73	71	68	613	309	223	54	7.0	13.2
AVERAGE			-2.70		0.65		52.35	69.6		571.7				7.1	13.2

Sample Train Leak Checks: Pre Test <0.01 ft^3 @ 10 in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest _____ @ _____ in. H_2O; Post Test _____ @ _____ in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

TEST ID	OH #2
PLANT	AES Greenidge
LOCATION	Air Heater Inlet
DATE	5/20/08
OPERATOR(S)	ARG / KRC
AMBIENT TEMP [°F]	
BAR. PRESS. [" Hg]	29.03

METER BOX	N-4
PITOT TUBE DESC	
PROBE LENGTH [ft]	3
NOZZLE ID [inch]	1/4 C
%H_2O (Assumed)	8
FILTER ID	1192
K FACTOR	—

CAL. DATA: delta H	1.744		
Y	1.002		
C(p)			
FILTER BOX SETTING	NA		
PROBE HTR SETTING	325		
DUCT X-SECTION	circ ?	rect ?	other:
DUCT DIMENSIONS		DUCT AREA	

Comments: Constant sample rate
Nozzle out of flow

Page ____ of ____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0307	0					508.910								
	0312	5			0.75	5.8	511.460	87	87		319	220	51	8.1	12.1
	0317	10			0.75	4.0	513.940	89	87		322	228	49	8.3	12.0
	0322	15			0.75	4.2	516.435	90	88		323	224	51	8.2	12.1
	0327	20			0.75	4.5	518.940	91	88		319	226	52	8.3	12.0
	0332	25			0.75	4.9	521.435	91	89		325	229	54	8.3	12.0
	0337	30			0.75	5.0	523.930	91	88		329	230	54	8.5	11.7
	0342	35			0.75	5.0	526.430	91	89		328	231	54	8.8	11.6
	0347	40			0.75	5.5	528.920	92	89		319	232	55	8.8	11.5
	0352	45			0.75	5.8	531.415	91	88		328	233	55	8.9	11.4
	0357	50			0.75	6.0	533.900	91	89		325	233	55	8.6	11.7
	0402	55			0.75	6.2	536.390	91	88		319	229	56	8.7	11.6
Pause	0407	60			0.75	6.5	538.894	91	88		319	234	56	8.5	11.8
Start	0415														
	0420	65			0.75	7.0	541.400	89	88		319	266	53	7.3	13.0
	0425	70			0.75	7.2	543.875	90	88		319	266	51	7.6	12.6
	0430	75			0.75	7.5	546.375	90	88		327	267	52	7.9	12.3
	0435	80			0.75	7.8	548.865	90	88		327	266	52	7.9	12.3
	0440	85			0.75	8.0	551.345	91	88		327	266	53	7.9	12.3
	0445	90			0.75	8.2	553.850	91	88		321	267	54	8.0	12.2
	0450	95			0.75	8.5	556.345	91	88		320	267	54	8.0	12.2
	0455	100			0.75	9.0	558.850	91	88		322	267	54	8.2	12.1
	0500	105			0.75	9.2	561.330	91	88		319	266	54	8.2	12.1
	0505	110			0.75	9.5	563.845	91	89		328	267	54	8.2	12.1
	0510	115			0.75	10.0	566.330	91	88		325	266	54	8.2	12.1
	0515	120			0.75	10.2	568.829	90	89		321	267	55	8.2	12.1
AVERAGE					0.75		59.919	87.7						8.2	12.0

Sample Train Leak Checks: Pre Test 20.01 ft^3 @ 15 in. Hg
Post Test 20.01 ft^3 @ 15 in. Hg

Pitot Tube Leak Checks: PreTest ____ @ ____ in. H_2O
Post Test ____ @ ____ in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	#2	METER BOX	2-S	CAL. DATA: delta H	0.883
PLANT	Greenidge	PITOT TUBE DESC	F12	Y	0.991
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	5-19-08	NOZZLE ID [inch]	1/4"A 2.0	FILTER BOX SETTING	NA
OPERATOR(S)	BS, PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~450	FILTER ID	143	DUCT X-SECTION	circ ? (circ ? / rect ? / other:)
BAR. PRESS. [" Hg]	29.03	K FACTOR	3.07	DUCT DIMENSIONS	13ft — DUCT AREA 132.732 ft2

Comments: _____

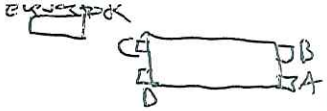
TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ H.L. [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0305	0					474.10								
-5.0		7.5		.20	.63	1	477.48	49	48	147	253	299	41	—	—
-16.4		15.0		.27	.85	1.5	481.32	51	49	173	248	304	40	—	—
-30.3		22.5		.28	.88	2	485.24	53	50	175	250	306	41	10.4	—
-50.4		30.0	-.451	.30	.95	2	489.30	55	52	175	241	308	42	10.4	—
-5.0		37.5		.20	.63	1	492.64	55	54	133	245	307	41	—	—
-16.4		45.0		.28	.88	2	496.56	57	55	174	248	307	41	10.3	—
-30.3		52.5		.30	.95	2.5	500.63	57	54	176	252	307	42	—	—
-50.4		60.0	-.444	.28	.88	2	504.55	57	54	175	243	306	42	10.2	—
-5.0		67.5		.20	.63	1.5	507.90	57	55	150	255	307	41	—	—
-16.4		75.0		.27	.85	2	511.75	57	55	174	254	308	41	10.3	—
-30.3		82.5		.28	.88	2	515.70	57	54	175	249	308	41	—	—
-50.4		90.0	-.410	.28	.88	2	519.60	57	54	176	248	308	41	10.3	—
-5.0		97.5		.20	.63	1.5	522.96	57	54	164	246	309	42	—	—
-16.4		105.0		.27	.85	2	526.80	57	53	174	254	309	42	10.3	—
-30.3		112.5		.28	.88	2	530.72	57	53	175	254	308	43	10.2	—
-50.4	0514	120.0	-.447	.28	.88	2	534.64	57	54	176	245	308	43	—	—
AVERAGE			-0.433	0.259	0.821		60.54	54.3		168.3				10.3	

Sample Train Pre Test 0K ft^3 @ 10 in. Hg — Pitot Tube PreTest 0K @ 7 in. H_2O

Leak Checks: Post Test 0K ft^3 @ 10 in. Hg — Leak Checks: Post Test 0K @ 7 in. H_2O

CONSOLENERGY

NOTE: Purge for 10 minutes at end of sampling.



Purge @ .70" H_2O from 1146-1156

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	Econ-1	METER BOX	083	CAL. DATA: delta H	1.666	Comments:	Constant Sample Rate - Nozzle Reversed to flow
PLANT	Greenidge	PITOT TUBE DESC		Y	1.0086		
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	0.84		
DATE	6-12-08	NOZZLE ID [inch]	0.	FILTER BOX SETTING	NA		
OPERATOR(S)	JG, NM	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	80	FILTER ID	1227	DUCT X-SECTION	circ ? / rect ? / other:		
BAR. PRESS. [" Hg]	29.54	K FACTOR	NA	DUCT DIMENSIONS		DUCT AREA	

Initial Dcm = 475.878 Jumper line

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0940	0					475.605								
D -1	0950	10	—	.03	0.70	2	477.520	70	70	666	268	315	66	3.2	17.7
D -1	1000	20	-5.4	.03	0.70	2	478.795	71	71	693	260	315	65	2.8	18.1
D -1	1010	30	—	.03	0.70	2	480.590	72	72	693	261	315	64	2.5	18.4
				.09	2.1				436	2052					
C -1	1020	40	—	.10	0.70	3	482.600	75	75	601	265	315	58	5.5	15.4
C -1	1030	50	-5.5	.11	0.70	3	484.586	75	75	602	266	315	58	5.4	15.5
C -1	1040	60	—	.11	0.70	3	486.658	76	76	602	267	314	58	5.2	15.7
				.41	4.2				878	3857					
	1042														
-1	1052	70	—	.09	0.70	3	487.105	78	78	626	285	314	62	5.8	15.1
-1	1102	80	-5.7	.10	0.70	3	491.584	78	78	629	285	314	58	5.6	15.3
-1	1112	90	—	.09	0.70	3	493.961	78	78	628	291	313	59	5.7	15.2
					6.3										
	1115														
-1	1125	100	—	.03	0.70	3	497.165	78	78	657	282	313	63	4.8	16.1
-1	1135	110	-5.5	0.03	0.70	3	499.690	79	79	672	278	315	65	2.6	18.3
-1	1145	120	—	0.03	0.70	3	502.378	79	79	675	286	315	65	3.0	17.9
					8.4										
AVERAGE			-5.53		.70		26.500	75.8		645.3	274.5	314.4	61.8	4.34	

Sample Train Pre Test 0.006 ft^3 @ 10 in. Hg
Leak Checks: Post Test 0.003 ft^3 @ 5 in. Hg

Pitot Tube PreTest 0.00 @ 3.0 in. H_2O
Leak Checks: Post Test 0.0 @ 3.0 in. H_2O

CONSOLENERGY

9:42 AM TEST 1

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AHI-1	METER BOX	N-2	CAL. DATA: delta H	1.779	Comments:	Constant Sample Rate.
PLANT	AES Greenidge	PITOT TUBE DESC	—	Y	0.985		Nozzle Reversed To Flow
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]	3'	C(p)	—		
DATE	6-12-08	NOZZLE ID [inch]	1/4" E	FILTER BOX SETTING	NA		
OPERATOR(S)	RSS	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	78	FILTER ID	1230	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.59	K FACTOR		DUCT DIMENSIONS (6) (7)		DUCT AREA (2)	(3) (4)

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0940	0					319.200								
		5			0.70	4"	321.600	73	73		340	224	68	3.4	16.6
		10				4"	324.00	74	73		341	206	60	3.4	16.6
		15				5"	326.40	75	73		344	207	61	3.2	16.8
		20				5"	328.80	76	73		349	208	62	3.3	16.7
		25				6"	331.20	78	74		324	208	66	3.3	16.7
		30				6"	333.60	78	74		320	207	68	3.5	16.5
		35				7"	336.00	79	75		328	207	69	3.5	16.5
		40				7"	338.30	79	75		330	207	70	3.3	16.7
		45				8"	340.68	80	75		320	207	70	3.2	16.8
		50				8"	343.10	80	77		332	208	67	3.3	16.7
		55				9"	345.40	81	76		321	209	61	3.3	16.7
		60				9"	347.77	81	77		34	209	60	3.4	16.6
	10:44						347.77								
		65				9"	350.19	81	77		329	213	56	5.0	15.1
		70				10"	352.57	82	77		333	213	54	4.9	15.2
		75				10"	354.90	82	78		321	213	53	4.9	15.2
		80				11"	357.34	82	78		330	216	54	4.9	15.2
		85				11"	359.75	82	78		332	214	55	5.0	15.1
		90				11"	362.13	83	78		325	216	55	5.1	15.0
		95				12"	364.51	83	79		332	215	58	4.9	15.2
		100				12"	366.89	84	79		329	215	56	5.0	15.1
		105				12	369.25	83	79		329	215	56	4.7	15.4
		110				13	371.60	83	79		328	216	55	4.8	15.3
		115				14	373.98	84	79		323	216	56	4.8	15.3
	1144	120				14	376.365	84	80			217	55	4.9	15.2
AVERAGE					0.70		57.165	76.91			329.4	211.9	60.3	4.13	

Sample Train Pre Test .001 ft^3 @ 7 in. Hg
Leak Checks: Post Test .001 ft^3 @ 18 in. Hg

Pitot Tube PreTest — @ — in. H_2O
Leak Checks: Post Test — @ — in. H_2O

CONSOLENERGY.

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	# 1	METER BOX	N-5	CAL. DATA: delta H	1.318
PLANT	Greenidge	PITOT TUBE DESC	E-12	Y	0.990
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	6-12-08	NOZZLE ID [inch]	1/4" A 0.260	FILTER BOX SETTING	NA
OPERATOR(S)	BS PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~75°	FILTER ID	154	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.59	K FACTOR	3.27	DUCT DIMENSIONS	13ft
				DUCT AREA	132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet (6)	METER TEMP [oF] outlet (7)	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ [°F] (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	0942	0					910.70								
-5.0		7.5		.55	1.80	3.5	916.42	74	74	172	248	~~52~~	52	—	—
-16.4		15.0		.55	1.80	3.5	922.08	75	74	174	251	308	52	8.0	—
-30.3		22.5	-.401	.55	1.80	3.5	927.74	77	74	174	248	308	54	—	—
-50.4		30.0		.55	1.80	4	933.47	79	75	175	254	307	56	8.0	—
-5.0		37.5		.63	2.06	4	939.50	81	77	174	243	307	54	—	—
-16.4		45.0		.63	2.06	4	945.54	82	77	175	243	307	52	7.9	—
-30.3		52.5	-.392	.63	2.06	4	951.61	83	77	175	241	306	54	—	—
-50.4		60.0		.60	1.96	4	957.52	84	78	176	248	306	54	8.0	—
-5.0		67.5		.58	1.90	4	963.47	83	77	174	253	307	56	—	—
-16.4		75.0		.58	1.90	4	969.20	84	78	175	254	308	58	7.9	
-30.3		82.5	-.431	.63	2.06	4.5	975.24	84	78	175	255	310	61	—	—
-50.4		90.0		.55	1.80	4	981.00	84	77	176	252	310	58	7.9	—
-5.0		97.5		.45	1.47	3	986.16	81	76	174	248	310	55	—	—
-16.4		105.0		.50	1.64	3.5	991.60	83	76	174	246	310	53	8.0	—
-30.3		112.5	-.370	.50	1.64	3.5	997.07	83	76	175	254	310	54	—	—
-50.4	1157	120.0		.55	1.80	4	002.75	83	76	175	243	311	56	7.9	—
AVERAGE			-.399	0.563	1.847		92.05	78.8		174.6	248.8	308.3	54.9	7.95	

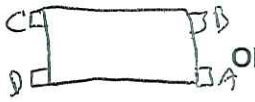
Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

Elevation



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page 1 of 1

TEST ID	ECON-2	METER BOX	083	CAL. DATA: delta H	1.666	Comments:	
PLANT	Greenidge	PITOT TUBE DESC		Y	1.00086		Purge @ .70" H2O from 1539 to 1599
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	0.84		
DATE	6-12-08	NOZZLE ID [inch]	.314 B	FILTER BOX SETTING	NA		
OPERATOR(S)	JM, NM	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	85	FILTER ID	1228	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.65	K FACTOR	NA	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	Jumper "FILTER" Line -BOX- [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1330	0					505.347								
A-1	1340	10	—	.05	0.70	2	508.200	80	80	679	306	314	61	*12.0	8.9
A-1	1350	20	-5.7	.03	0.70	3	511.345	80	80	681	305	315	60	*11.9	9.0
A-1	1400	30	—	.03	0.70	3	514.525	81	81	690	304	316	58	*12.0	8.9
				Leak	/ =	1002	@ 5" Hg → after firing small leak where sample line connected to probe.								
	1404						514.965								
B-1	1414	40	—	.12	0.70	3	517.828	82	82	628	296	314	64	6.2	14.7
B-1	1424	50	-6.1	.14	0.70	3	520.775	83	83	627	308	312	61	6.1	14.8
B-1	1434	60	—	.14	0.70	3	524.148	84	84	629	315	312	61	6.3	14.6
	1437														
C-1	1447	70	—	.11	0.70	3	527.894	85	85	605	314	312	62	5.7	15.2
C-1	1457	80	-5.8	.15	0.70	3	530.125	85	85	614	322	315	58	5.6	15.3
C-1	1507	90	—	.15	0.70	3	533.115	86	86	615	326	316	57	5.5	15.4
	1518														
D-1	1518	100	—	.26	0.70	5	536.350	86	86	791	321	315	57	3.4	17.5
D-1	1528	110	-5.7	.25	0.70	5	539.330	87	87	797	317	314	57	2.7	18.2
D-1	1538	120	—	.25	0.70	5	542.910	86	86	799	318	315	56	2.8	18.1
AVERAGE			-5.83		0.70		37.073	83.8		679.6	312.7	314.2	59.3	6.68	

Sample Train Leak Checks:	Pre Test 0.01 ft^3 @ 15 in. Hg		Pitot Tube Leak Checks:	PreTest 0.00 @ 3 in. H_2O	
	Post Test 0.001 ft^3 @ 7 in. Hg			Post Test 0.00 @ 3 in. H_2O	

CONSOLENERGY

TEST # 2

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AH1-2	METER BOX	2	CAL. DATA: delta H	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.985
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]	3.1	C(p)	
DATE	06-12-08	NOZZLE ID [inch]	1/4"	FILTER BOX SETTING	NA
OPERATOR(S)	RSS	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	84	FILTER ID	1231	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.65	K FACTOR		DUCT DIMENSIONS	DUCT AREA

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	13:30	0					382.900								
		5			0.70	4"	385.400	81	80		332	221	56	5.7	14.4
		10				4"	387.750	86	80		322	222	55	5.8	14.3
		15				4"	390.140	83	80		330	223	54	5.9	14.2
		20				5"	392.520	84	80		333	224	53	5.7	14.4
		25				5"	394.930	85	82		325	225	56	5.5	14.6
		30				5"	397.320	85	81		323	224	54	6.0	14.1
		35				5"	399.710	87	82		329	224	54	5.8	14.3
		40				6"	402.090	86	82		321	224	55	5.6	14.5
		45				6"	404.48	86	82		319	224	54	5.9	14.2
		50				6"	406.86	87	82		324	227	58	5.7	14.4
		55				7"	409.25	87	83		319	224	54	5.7	14.4
		60				7"	411.62	87	83		326	228	55	5.7	14.4
	14:33						411.62								
		65				7"	414.01	87	83		331	229	50	3.9	16.1
		70				8"	416.40	87	83		330	229	48	3.8	16.2
		75				8"	418.78	87	84		320	229	47	3.9	16.1
		80				9"	421.08	87	84		320	227	48	4.3	15.7
		85				9"	423.43	87	84		319	229	48	4.2	15.8
		90				10"	425.81	87	84		318	229	48	4.5	15.5
		95				7"	427.55	87	84		323	229	51	4.5	15.5
		100				7"	429.23	86	84		330	229	53	4.1	15.9
		105				8"	430.90	87	84		317	230	53	4.3	15.7
		110				8"	432.58	88	84		329	231	55	4.2	15.8
		115				8"	434.25	87	85		317	231	54	4.3	15.7
		120				8"	435.915	87	84		325	230	54	4.4	15.6
AVERAGE	15:33				0.70		53.015	84.4			324.3	226.8	52.8	4.98	

Sample Train Pre Test <.001 ft^3 @ 7" in. Hg
Leak Checks: Post Test <.001 ft^3 @ 10" in. Hg

Pitot Tube PreTest ____ @ ____ in. H_2O
Leak Checks: Post Test ____ @ ____ in. H_2O

CONSOLENERGY.

NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	H 2	METER BOX	2 - 5	CAL. DATA: delta H	1.818
PLANT	Greenidge	PITOT TUBE DESC	E - 12	Y	0.990
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	6-12-08	NOZZLE ID [inch]	1/4" 9 .260	FILTER BOX SETTING	NA
OPERATOR(S)	BS, PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~75°	FILTER ID	155	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.65	K FACTOR	3.27	DUCT DIMENSIONS	13ft
				DUCT AREA	132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ [°F] (3)	LAST IMP TEMP [°F] (4)	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1330	0					009.00								
-5.0		7.5		.45	1.47	12	014.24	78	76	173	250	305	60	—	—
-16.4		15.0		.50	1.64	12.5	019.67	80	78	174	246	309	58	—	—
-30.3		22.5	-.350	.55	1.80	14.5	025.36	83	81	174	242	309	60	7.6	—
-50.4		30.0		.58	1.90	15.5	031.21	86	83	174	250	308	60	7.7	—
-5.0		37.5		.55	1.80	15	036.52	89	86	174	252	310	61	—	—
-16.4		45.0		.63	2.06	18	043.00	90	87	174	255	311	61	7.7	—
-30.3		52.5		.65	2.13	18	—	92	87	174	249	310	57	—	—
-50.4		60.0	-.440	.63	2.06	18	055.17	92	87	174	245	310	55	7.8	—
-5.0		67.5		.63	2.06	18	061.50	93	89	174	254	307	56	—	—
-16.4		75.0		.63	2.06	18	067.32	94	89	174	253	307	57	8.0	—
-30.3		82.5	-.400	.63	2.06	18	—	95	89	174	247	307	58	—	—
-50.4		90.0		.60	1.96	18	079.32	95	89	174	251	308	59	8.2	—
-5.0		97.5		.50	1.64	14.5	084.90	96	89	174	250	310	59	—	—
-16.4		105.0		.50	1.64	14.5	090.50	96	90	174	254	310	60	8.1	—
-30.3		112.5	-.430	.55	1.80	16.5	096.26	98	90	174	243	310	62	8.0	—
-50.4	1547	120.0		.55	1.80	17	102.10	98	90	174	254	309	63	—	—
AVERAGE			-.415	0.57	1.868		93.10	88.6		173.9	249.7	308.8	59.1	7.89	

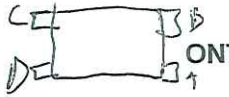
Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 18 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOLENERGY.

NOTE: Purge for 10 minutes at end of sampling.

Elevator



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	ECON - 3	METER BOX	083	CAL. DATA: delta H	1.666
PLANT	Greenidge	PITOT TUBE DESC		Y	1.0086
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	.84
DATE	6-13-08	NOZZLE ID [inch]	.354 B	FILTER BOX SETTING	NA
OPERATOR(S)	JM, NM	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	80	FILTER ID	1234	DUCT X-SECTION	circ ? rect ? other:
BAR. PRESS. [" Hg]	29.65	K FACTOR	NA	DUCT DIMENSIONS	DUCT AREA

Comments: Purge @ .70" H_2O from 1214 to 1229

75.4

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	~~FILTER BOX~~ Jumped Line [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1000	0					546.628								
D 1	1010	10	—	.14	.70	2	548.365	81	81	692	330	312	66	5.8	15.1
D 1	1020	20	-6.0	.10	.70	2	550.070	81	81	770	319	311	65	2.6	18.3
D 1	1030	30	—	.12	.70	2	551.952	83	83	775	313	311	61	2.6	18.3
C 1	1040	40	—	.14	.70	2	554.270	84	84	626	310	311	55	6.0	14.9
C 1	1050	50	-6.1	.13	.70	2	557.610	84	84	627	300	313	51	5.7	15.1
C 1	1100	60	—	.12	.70	4	561.000	86	86	625	306	313	50	5.8	15.1
					Leak or affect port change				.008 @ 6" Hg						
	1111						562.930								
B 1	1121	70	—	.15	.70	4	566.410	86	86	586	281	315	54	5.9	15.0
B 1	1131	80	-6.2	.16	.70	5	569.808	88	88	628	300	316	55	5.6	15.3
B 1	1141	90	—	.16	.70	5	573.192	89	89	629	313	316	56	5.6	15.3
A 1	1151	100	—	.16	.70	5	576.513	90	90	628	321	314	58	5.8	15.1
A 1	1201	110	-6.0	.17	.70	6	579.920	90	90	629	314	313	59	5.5	15.4
A 1	1211	120	—	.16	.70	6	583.480	90	90	630	312	315	60	5.6	15.3
AVERAGE			-6.1	0.127	0.70		36.852	86.0		653.8				5.2	15.7

Sample Train Leak Checks: Pre Test .002 ft^3 @ 12 in. Hg; Post Test .008 ft^3 @ 9 in. Hg

Pitot Tube Leak Checks: PreTest 0.00 @ 3.2 in. H_2O; Post Test 0.00 @ 3.1 in. H_2O

CONSOL ENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	AH1-3	METER BOX	2	CAL. DATA: delta H		Comments:	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.985		
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]	3ft	C(p)			
DATE	06-13-08	NOZZLE ID [inch]	.25"	FILTER BOX SETTING	NA		
OPERATOR(S)	RSS	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]		FILTER ID	1233	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	29.65	K FACTOR		DUCT DIMENSIONS		DUCT AREA	

(101.9)

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	10:00	0					438.500								
		5			0.70	4"	440.920	.84	.82		329	233	56	3.7	16.3
		10				5"	443.36	.85	.83		331	234	54	3.8	16.2
		15				5"	445.81	.86	.83		324	235	54	3.8	16.2
		20				6"	448.24	.88	.84		330	235	54	3.9	16.1
		25				6"	450.66	.89	.85		334	237	56	3.8	16.2
		30				7"	453.08	.90	.85		324	237	56	3.9	16.1
		35				7"	455.47	.91	.86		333	237	57	4.1	15.9
		40				7"	457.84	.92	.87		335	237	57	4.2	15.8
		45				8"	460.20	.93	.88		334	242	56	4.5	15.5
		50				8"	462.58	.93	.88		329	242	56	4.6	15.4
		55				9"	464.93	.93	.89		322	243	56	4.4	15.6
		60				9"	467.291	.94	.89		330	231	56	4.2	15.8
	11:02						467.291								
		65			0.70	8"	469.81	.94	.90		326	237	59	5.9	14.1
		70				8"	471.62	.94	.90		327	237	60	6.1	14.0
		75				9"	473.41	.95	.91		334	237	58	6.3	13.9
		80				10"	475.93	.96	.91		324	238	54	6.5	13.7
		85				10"	478.36	.95	.91		327	238	52	6.4	13.7
		90				11"	480.78	.95	.91		324	238	53	6.7	13.5
		95				11"	483.15	.95	.91		329	238	54	6.9	13.3
		100				7"	484.89	.94	.91		320	238	58	8.0	12.1
		105				8"	486.48	.96	.92		326	238	59	5.5	14.6
		110				8"	488.09	.95	.92		333	239	60	5.5	14.6
		115				8"	489.72	.95	.92		330	240	60	5.3	14.8
	12:02	120				9"	491.35	.95	.92		329	240	60	5.4	14.7
AVERAGE					0.70		52.85	.90.4						5.1	

Sample Train Pre Test <.001 ft^3 @ 7 in. Hg
Leak Checks: Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube PreTest <.001 @ 10" in. H_2O
Leak Checks: Post Test _____ @ _____ in. H_2O

CONSOLENERGY.

NOTE: Purge for 10 minutes at end of sampling.

1055 LOST POWER "STOP" 1135 LOST HTD. LINE "STOP"
1125 RESTART 1220 RESTART

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page _____ of _____

TEST ID	#3	METER BOX	N-5	CAL. DATA: delta H	1.818
PLANT	Greenidge	PITOT TUBE DESC	E-12	Y	0.990
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	6-13-08	NOZZLE ID [inch]	1/4" A .260	FILTER BOX SETTING	NA
OPERATOR(S)	BS, PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~~78~~ 81°	FILTER ID	156	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.65	K FACTOR	3.27	DUCT DIMENSIONS	13ft
				DUCT AREA	132.732 ft2

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] (6) inlet	METER TEMP [oF] (7) outlet	STACK TEMP [°F] (1)	PROBE TEMP [°F] (2)	~~FILTER BOX~~ [°F] (14.L)	LAST IMP TEMP [°F] (5)	METER EXHAUST O_2 [% vol] (4)	METER EXHAUST CO_2 [% vol]
	1000	0					108.40								
-5.0		7.5		.55	1.80	3.5	114.20	80	80	176	241	310	55	—	—
-16.4		15.0		.58	1.90	4	120.07	82	82	176	255	308	54	8.1	—
-30.3		22.5	-.397	.58	1.90	4	125.97	84	83	176	241	308	55	7.8	—
-50.4		30.0		.60	1.96	4	131.96	86	84	176	246	307	56	—	—
-5.0		37.5		.55	1.80	3.5	137.73	87	86	160	240	308	56	—	—
-16.4		45.0		.70	2.29	4.5	144.22	88	86	175	243	307	55	7.8	—
-30.3		52.5	-.410	.70	2.29	4.5	150.77	90	88	175	239	307	57	—	—
-50.4		60.0		.70	2.29	4.5	157.17	87	86	176	230	202	—	7.9	—
-5.0		67.5		.60	1.96	4	163.17	89	87	175	233	224	62	—	—
-16.4		75.0		.65	2.13	4.5	169.47	91	87	175	234	230	60	7.9	—
-30.3		82.5	-.401	.70	2.29	5	—	93	89	175	232	230	62	7.9	—
-50.4		90.0		.70	2.29	5	182.54	95	90	176	230	230	63	—	—
-5.0		97.5		.60	1.96	4	188.57	94	92	174	231	236	61	—	—
-16.4		105.0		.65	2.13	4.5	194.87	96	93	175	228	240	62	7.7	—
-30.3		112.5	-.410	.70	2.29	5	201.40	98	94	174	230	238	64	7.6	—
-50.4	1328	120.0		.70	2.29	5	208.00	98	94	174	229	231	65	—	—
AVERAGE			-0.405	0.640	2.098		99.60	88.7		174.3	236.4	263.5	59.1	7.84	

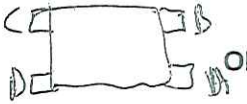
Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 10 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

CONSOL ENERGY

NOTE: Purge for 10 minutes at end of sampling.

Elevation



ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

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TEST ID	Elev-4	METER BOX	083	CAL. DATA: delta H	1.8666	Comments:	
PLANT	Greenidge	PITOT TUBE DESC		Y	1.00086		Purge @ .70" H_2O for 10 min
LOCATION	Economizer Outlet	PROBE LENGTH [ft]	12	C(p)	.84		
DATE	6-12-08	NOZZLE ID [inch]	.3M	FILTER BOX SETTING	NA		
OPERATOR(S)	JM, NM	%H_2O (Assumed)	8	PROBE HTR SETTING	325		
AMBIENT TEMP [°F]	85-95	FILTER ID	1235	DUCT X-SECTION	circ ?	rect ?	other:
BAR. PRESS. [" Hg]	27.62	K FACTOR	.84	DUCT DIMENSIONS		DUCT AREA	

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F] (Jumpered)	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1457	0					587.828								
A 1	1502	10	—	.03	.70	4	592.695	92	92	662	285	214	64	3.6	17.3
A 1	1512	20	-5.8	.03	.70	5	597.238	93	93	690	315	215	58	3.4	17.5
A 1	1522	30	—	.03	.70	5	601.918	95	95	694	315	218	58	3.3	17.6
B 1	1532	40	—	.15	.70	6	606.590	95	95	637	328	223	63	6.5	14.4
B 1	1542	50	-6.2	.18	.70	7	611.295	95	95	638	314	218	63	6.3	14.6
B 1	1552	60	—	.18	.70	7	615.968	94	94	639	316	217	65	6.4	14.5
				Leak ✓ after port change = .0050 cfm Hg											
	1597						616.410								
C 1	1607	70	—	.16	.70	8	620.872	94	94	621	275	226	62	6.2	14.7
C 1	1617	80	-6.2	.20	.70	8	625.622	94	94	621	301	225	56	5.6	15.3
C 1	1627	90	—	.20	.70	9	627.958	94	94	621	313	227	52	5.5	15.3
D 1	1637	100	—	.10	.70	11	635.175	94	94	819	307	236	54	3.0	17.9
D 1	1647	110	-5.8	.11	.70	12	639.885	94	94	821	309	236	54	2.9	18.0
D 1	1657	120	—	.10	.70	13	644.652	93	93	824	328	238	58	3.0	17.9
AVERAGE			-6.00		0.70		56.312	93.9		690.6	308.8	224.4	58.9	4.64	

Sample Train Leak Checks: Pre Test .006 ft^3 @ 15 in. Hg; Post Test _____ ft^3 @ _____ in. Hg

Pitot Tube Leak Checks: PreTest 0.00 @ 3.5 in. H_2O; Post Test 0.00 @ 3.5 in. H_2O

CONSOLENERGY

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	AH1-4	METER BOX	2	CAL. DATA: delta H	
PLANT	AES Greenidge	PITOT TUBE DESC		Y	.985
LOCATION	Air Heater Inlet	PROBE LENGTH [ft]	5	C(p)	
DATE	06-13-08	NOZZLE ID [inch]	.25	FILTER BOX SETTING	NA
OPERATOR(S)	RSS	%H_2O (Assumed)	8	PROBE HTR SETTING	325
AMBIENT TEMP [°F]	101	FILTER ID	1237	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.62	K FACTOR	[illegible]	DUCT DIMENSIONS	DUCT AREA

Comments: _____

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	12:11	0					497.500								
		5				4"	499.86	98	96		330	217	55	5.9	14.2
		10				4"	502.32	99	96		327	219	52	6.0	14.1
		15				4"	504.75	100	97		326	222	52	5.8	14.3
		20				5"	507.13	102	97		333	221	51	5.7	14.4
		25				5"	509.53	101	98		334	221	52	5.7	14.4
		30				5"	511.96	101	98		321	221	53	5.7	14.4
		35				6"	514.38	101	98		331	221	53	5.5	14.6
		40				6"	516.78	102	98		327	221	54	5.7	14.4
		45				6"	519.19	102	99		329	221	54	5.6	14.5
		50				6"	521.61	102	99		331	221	55	5.5	14.6
		55				7"	524.01	102	99		334	221	54	5.6	14.5
		60				7"	526.40	102	99		321	221	55	5.5	14.6
	15:43						526.40								
		65				7"	528.81	102	99		335	217	55	4.4	15.6
		70				8"	531.21	103	100		331	217	52	4.6	15.4
		75				8"	533.61	104	100		330	217	51	4.7	15.3
		80				8"	535.96	103	100		332	217	51	4.7	15.3
		85				9"	538.40	103	100		323	218	51	4.6	15.4
		90				9"	540.79	103	100		333	218	49	4.6	15.4
		95				9"	543.18	103	100		325	217	48	4.5	15.5
		100				10"	545.59	104	100		334	218	48	4.5	15.5
		105				10"	547.90	104	101		331	218	48	4.5	15.5
		110				10"	550.32	103	101		323	217	48	4.5	15.5
		115				11"	552.75	103	101		323	217	48	4.5	15.5
		120				11"	555.13	103	101		322	217	48	—	—
AVERAGE	1643						57.63	100.6			328.6	219.0	51.5	5.14	

Sample Train Leak Checks: Pre Test 5.00 ft^3 @ 9" in. Hg; Post Test 5.00 ft^3 @ 12" in. Hg

Pitot Tube Leak Checks: PreTest ____ @ ____ in. H_2O; Post Test ____ @ ____ in. H_2O

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NOTE: Purge for 10 minutes at end of sampling.

ONTARIO HYDRO Hg SAMPLING AND SPECIATION FIELD DATA SHEET

Page ____ of ____

TEST ID	#4	METER BOX	2-5	CAL. DATA: delta H	1.818
PLANT	Greenidge	PITOT TUBE DESC	E-12	Y	0.990
LOCATION	Stack	PROBE LENGTH [ft]	8	C(p)	0.821
DATE	6-13-08	NOZZLE ID [inch]	1/4"A.260	FILTER BOX SETTING	NA
OPERATOR(S)	BS PR	%H_2O (Assumed)	14%	PROBE HTR SETTING	250
AMBIENT TEMP [°F]	~88°	FILTER ID	157	DUCT X-SECTION	circ ? / rect ? / other:
BAR. PRESS. [" Hg]	29.62	K FACTOR	3.27	DUCT DIMENSIONS	13ft / DUCT AREA 132.732 ft2

Comments: CHECK IMP'S FOR RESTRICTIONS. * 326? COULD NOT PULL NEEDED FLOW.

TRAVERSE POINT [port-inch]	CLOCK TIME (24-hr)	SAMPLE TIME [minute]	STATIC PRES [" H_2O]	PITOT HEAD [" H_2O]	METER DIFF PRESSURE [" H_2O]	METER VACUUM [" Hg]	METER READING [ft^3]	METER TEMP [oF] inlet	METER TEMP [oF] outlet	STACK TEMP [°F]	PROBE TEMP [°F]	FILTER BOX [°F]	LAST IMP TEMP [°F]	METER EXHAUST O_2 [% vol]	METER EXHAUST CO_2 [% vol]
	1450	0					214.80								
-5.0		7.5		.45	1.47	10	220.09	—	—	—	—	—	—	—	—
-16.4		15.0		.50	1.64	12	225.70	95	93	174	220	309	53	—	—
-30.3		22.5		.50	1.64	12	231.23	96	94	175	228	310	56	8.2	—
-50.4		30.0	-.390	.58	1.90	14.5	237.20	97	95	175	230	310	58	—	—
-5.0		37.5		.58	1.90	15	243.13	96	95	175	230	310	60	—	—
-16.4		45.0		.65	2.13	18	—	97	95	175	217	310	63	—	—
-30.3		52.5		.65	2.13	18	255.50	97	95	175	228	310	63	7.9	—
-50.4		60.0	-.401	.65	2.13	18	261.61	98	96	176	230	309	64	7.8	—
-5.0		67.5		.55	1.80	—	267.50	97	96	174	228	312	65	—	—
-16.4		75.0		.65	*2.13	18	273.42	97	95	175	226	312	65	8.0	—
-30.3		82.5	-.390	.70	*2.30	18	—	96	95	175	223	312	67	8.0	—
-50.4		90.0		.65	*2.13	18	285.20	96	94	176	228	311	64	—	—
-5.0		97.5		.63	*2.06	18	291.00	95	93	174	230	311	63	7.8	—
-16.4		105.0		.65	*2.13	18	296.70	95	93	174	223	311	63	—	—
-30.3		112.5	-.390	.65	*2.13	18	302.44	95	93	174	230	311	64	8.0	—
-50.4	1702	120.0		.65	*2.13	18	308.12	95	93	174	226	310	65	—	—
AVERAGE			-0.393	0.604	1.984		93.32	95.2		174.7	226.5	310.5	62.2	7.96	

Sample Train Leak Checks: Pre Test OK ft^3 @ 10 in. Hg; Post Test OK ft^3 @ 18 in. Hg

Pitot Tube Leak Checks: PreTest OK @ 7 in. H_2O; Post Test OK @ 7 in. H_2O

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NOTE: Purge for 10 minutes at end of sampling.