

CHAMPAIGN, IL - ISCO DATA SUMMARY

(rev. date: 01-18-2010)

DEEP ZONE										
Sample ID/Info	DEEP ZONE - Pre ISCO Samples					DEEP ZONE - Post ISCO Samples				Summary
	IW-PT-201	IW-PT-203	IW-PT-205	IW-PT-207	IW-PT-209	P2-B1-W	IW-PT-201B	IW-PT-205B	IW-PT-207B	
	IW-PT-201 (18-19)	IW-PT-203 (19-20)	IW-PT-205 (17-18)	IW-PT-207 (18.5-19.5)	IW-PT-209 (19-20)	P2-B1-W (20)	IW-PT-201B (18-19)	IW-PT-205B (17-18)	IW-PT-207B (18.5-19.5)	
	4/6/2009	4/9/2009	4/8/2009	4/7/2009	4/9/2009	10/19/2009	12/2/2009	12/2/2009	12/2/2009	
	18-19	19-20	17-18	18.5-19.5	19-20	20	18-19	17-18	18.5-19.5	
BTEX Constituents (mg/kg)										
Benzene	13.4	13.7	1.54	10.9	13.6	24.5	0.0007	0.102	10.9	Deep Zone
Ethylbenzene	1.1	0.197	0.202	0.56	<0.101	29.4	0.0012	0.457	0.1	Avg. BTEX Reduction
Toluene	7.52	8.3	0.682	7.37	0.806	23.8	0.0355	0.086	2.58	Pre- 18.1
Xylenes	3.38	1.81	0.973	4.43	0.023	36.5	0.0063	0.835	0.509	Post- 32.5
Subtotal	25.40	24.01	3.40	23.26	14.43	114.20	0.04	1.48	14.09	Reduction *NA
Boring-to-Boring Comparison - Percent Reduction:							100%	56%	39%	
Sample ID/Info	DEEP ZONE - Pre ISCO Samples					DEEP ZONE - Post ISCO Samples				Summary
	IW-PT-201	IW-PT-203	IW-PT-205	IW-PT-207	IW-PT-209	P2-B1-W	IW-PT-201B	IW-PT-205B	IW-PT-207B	
	IW-PT-201 (18-19)	IW-PT-203 (19-20)	IW-PT-205 (17-18)	IW-PT-207 (18.5-19.5)	IW-PT-209 (19-20)	P2-B1-W (20)	IW-PT-201B (18-19)	IW-PT-205B (17-18)	IW-PT-207B (18.5-19.5)	
	4/6/2009	4/9/2009	4/8/2009	4/7/2009	4/9/2009	10/19/2009	12/2/2009	12/2/2009	12/2/2009	
	18-19	19-20	17-18	18.5-19.5	19-20	20	18-19	17-18	18.5-19.5	
PNA Constituents (mg/kg)										
Acenaphthene	<0.004	<0.004	0.004	0.018	<0.004	17.6	0.008	0.054	0.009	Summary
Acenaphthylene	<0.004	0.007	0.055	0.033	0.004	20.6	0.026	0.333	0.018	
Anthracene	<0.004	0.005	<0.004	0.039	0.005	17.3	0.022	0.276	0.016	
Benzo(a)anthracene	<0.004	0.008	0.006	0.042	0.006	7.4	0.019	0.213	0.014	
Benzo(a)pyrene	<0.004	0.005	0.004	0.035	0.004	7.72	0.016	0.202	0.011	
Benzo(b)fluoranthene	<0.004	0.006	0.005	0.037	0.004	5.98	0.019	0.219	0.012	
Benzo(g,h,i)perylene	<0.004	0.006	<0.004	0.017	<0.004	2.22	0.01	0.109	0.007	
Benzo(k)fluoranthene	<0.004	<0.004	<0.004	0.015	<0.004	1.82	0.007	0.086	0.004	
Chrysene	<0.004	0.007	0.004	0.041	0.005	8.34	0.02	0.21	0.014	
Dibenzo(a,h)anthracene	<0.004	<0.004	<0.004	0.005	<0.004	0.598	<0.004	<0.038	<0.004	
Fluoranthene	0.004	0.012	0.011	0.103	0.012	19.8	0.052	0.608	0.033	
Fluorene	<0.004	0.007	0.005	0.034	0.005	19.1	0.022	0.269	0.017	
Indeno(1,2,3-cd)pyrene	<0.004	<0.004	<0.004	0.016	<0.004	1.87	0.009	0.104	0.006	
Naphthalene	0.098	0.079	1.77	0.456	0.022	104	0.109	0.679	0.106	
Phenanthrene	0.005	0.02	0.01	0.134	0.018	68.2	0.076	0.938	0.055	
Pyrene	0.004	0.015	0.009	0.088	0.011	30	0.043	0.497	0.03	
Subtotal	0.11	0.18	1.88	1.11	0.10	332.55	0.46	4.80	0.35	
Boring-to-Boring Comparison - Percent Reduction:							-313%	-155%	68%	
Note: *NA = Initial soil concentrations were too low/non-detect to assess percent reduction										

Table 1
ISCO Pilot Study Chronology
 Champaign MGP Facility; Champaign, Illinois
 XDD Project No. 09003

Date	Total Volume Injected (gal)			Total Mass Sodium Persulfate Injected	Sodium Hydroxide Injected		Average Persulfate Concentration ²
	Shallow Wells	Deep Wells	Total	(lbs)	(lbs)	(gal) ¹	(g/L)
14-Jul-09	763	0	763	1,407	578	87	221
15-Jul-09	539	2,308	2,847	5,251	2,156	325	221
16-Jul-09	0	3,226	3,226	5,950	2,443	368	221
17-Jul-09	0	1,927	1,927	3,554	1,459	220	221
Total	1,302	7,461	8,763	16,162	6,635	999	221

Notes:

¹ Gallons of 50% Sodium Hydroxide solution

² Average persulfate concentration based on the total mass of sodium persulfate used and total volume injected (recorded from flow totalizers)

lbs = pounds

g/L = grams per liter

gal = gallons

Table 2
Injection Well Details
Champaign MGP Plant Champaign, Illinois
XDD Project: 09003

Well ID	Date	Screened Interval (ft bgs)	Daily Volume Injected (gal)	Total Injected (gal)	Approximate Persulfate Mass Injected (lbs)
PTIW-101	7/14/2009	10-15'	86	152	280
	7/15/2009		66		
PTIW-102	7/14/2009	10-15'	90	162	299
	7/15/2009		72		
PTIW-103	7/14/2009	10-15'	34	92	170
	7/15/2009		58		
PTIW-104	7/14/2009	10-15'	97	143	264
	7/15/2009		46		
PTIW-105	7/14/2009	10-15'	92	129	238
	7/15/2009		37		
PTIW-106	7/14/2009	10-15'	71	125	231
	7/15/2009		54		
PTIW-107	7/14/2009	10-15'	110	171	315
	7/15/2009		61		
PTIW-108	7/14/2009	10-15'	97	166	306
	7/15/2009		69		
PTIW-109	7/14/2009	10-15'	86	162	299
	7/15/2009		76		
PTIW-201	7/15/2009	15-25'	294	1,002	1,848
	7/16/2009		403		
	7/17/2009		305		
PTIW-202	7/15/2009	15-25'	267	949	1,750
	7/16/2009		366		
	7/17/2009		316		
PTIW-203	7/15/2009	15-25'	222	886	1,634
	7/16/2009		405		
	7/17/2009		259		
PTIW-204	7/15/2009	15-25'	296	951	1,754
	7/16/2009		343		
	7/17/2009		312		
PTIW-205	7/15/2009	15-25'	291	1,058	1,951
	7/16/2009		465		
	7/17/2009		302		
PTIW-206	7/15/2009	15-25'	144	636	1,173
	7/16/2009		247		
	7/17/2009		245		
PTIW-207	7/15/2009	15-25'	214	557	1,027
	7/16/2009		294		
	7/17/2009		49		
PTIW-208	7/15/2009	15-25'	284	780	1,439
	7/16/2009		417		
	7/17/2009		79		
PTIW-209	7/15/2009	15-25'	296	642	1,184
	7/16/2009		286		
	7/17/2009		60		
Total Injected				8,763	16,162

Table 2
 Injection Well Details
 Champaign MGP Plant Champaign, Illinois
 XDD Project: 09003

124 330

1800

Batches	bags	Date	Total shallow	Total Deep	Daily total	Batch volume	lbs persulfate	drums NaOH
2	62	14-Jul-09	763	0	763	1740	3410	4
4	124	15-Jul-09	539	2308	2847	3480	6820	8
3	93	16-Jul-09	0	3226	3226	2610	5115	6
0.5	15	17-Jul-09	0	1927	1927	435	825	1
9.5	294	Total	1302	7461	8763	8265	16170	19

Concentration

221.11 flowmeter t
234.43 batch total

16170
 16170

Bags of Persulfate	Persulfate (lbs)	Drums of NaOH	Volume of Batch (gal)	Target Conc (g/L)
31	1705	1.99	863	237

Table 2
Injection Well Details
Champaign MGP Plant Champaign, Illinois
XDD Project: 09003

otal

Table 3
Injection Well Totals
Champaign MGP Facility; Champaign, Illinois
XDD Project: 09003

Well ID	Screened Interval (ft bgs)	Total Injected (gal)	Total Mass Persulfate (lbs) *
PTIW-101	10-15'	152	280
PTIW-102	10-15'	162	299
PTIW-103	10-15'	92	170
PTIW-104	10-15'	143	264
PTIW-105	10-15'	129	238
PTIW-106	10-15'	125	231
PTIW-107	10-15'	171	315
PTIW-108	10-15'	166	306
PTIW-109	10-15'	162	299
PTIW-201	15-25'	1,002	1,848
PTIW-202	15-25'	949	1,750
PTIW-203	15-25'	886	1,634
PTIW-204	15-25'	951	1,754
PTIW-205	15-25'	1,058	1,951
PTIW-206	15-25'	636	1,173
PTIW-207	15-25'	557	1,027
PTIW-208	15-25'	780	1,439
PTIW-209	15-25'	642	1,184
Total		8,763	16,162

* based on a overall injection concentration of 221 g/L
ft bgs = feet below ground surface
gal = gallons
lbs = pounds

ISCO Area Geoprobe Comparison
Champaign MGP

										ORIGINAL SAMPLE	POST ISCO SAMPLE	IEPA SPLIT POST ISCO	ORIGINAL SAMPLE	POST ISCO SAMPLE	IEPA SPLIT POST ISCO	ORIGINAL SAMPLE	POST ISCO SAMPLE	IEPA SPLIT POST ISCO	
	Soil Ingestion			Soil Inhalation			Indoor Air		Soil Component to Groundwater ⁽¹⁾	IEPA Accepted Background Levels for MSA	IW-PT-201 4/6/2009 11.5-12.5	IW-PT-201B 12/2/2009 11.5-12.5	X-103 12/2/2009 11-12	IW-PT-201 4/6/2009 18-19	IW-PT-201B 12/2/2009 18-19	X-104 12/2/2009 18-19	IW-PT-205 4/8/2009 12.5-13.5	IW-PT-205B 12/2/2009 12.5-13.5	X-101 12/2/2009 13
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial											
BTEX Constituents (mg/kg)																			
Benzene	12	100	2,300	0.8	1.6	2.2	0.069	0.51	0.03	---	90.5	7.45	---	13.4	0.0007	---	22.5	6.64	---
Ethylbenzene	7,800	200,000	20,000	400	400	58	240	240	13	---	11.1	4.5	---	1.1	0.0012	---	1.1	0.43	---
Toluene	16,000	410,000	410,000	650	650	42	130	130	12	---	128	8.1	---	7.52	0.0355	---	15.8	3.98	---
Xylenes	16,000	410,000	41,000	320	320	5.6	63	100	150	---	145	18	---	3.38	0.0063	---	16.1	3.32	---
PNA Constituents (mg/kg)																			
Acenaphthene	4,700	120,000	120,000	---	---	---	---	---	570	0.13	10.3	0.316	<11.3	<0.004	0.008	<0.927	103	0.093	<0.884
Acenaphthylene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	85 ⁽²⁾	0.07	52.6	2.05	<62.5	<0.004	0.026	<0.510	460	0.666	<0.486
Anthracene	23,000	610,000	610,000	---	---	---	---	---	12,000	0.4	40	1.01	<62.5	<0.004	0.022	<0.510	337	0.108	<0.486
Benzo(a)anthracene	0.90	8	170	---	---	---	---	---	2	1.8	27.7	0.825	22.1	<0.004	0.019	0.0223	305	0.077	0.102
Benzo(a)pyrene	0.09	0.80	17	---	---	---	---	---	8	2.1	25.6	0.716	16.5	<0.004	0.016	0.0203	294	0.081	0.0709
Benzo(b)fluoranthene	0.90	8	170	---	---	---	---	---	5	2.1	27.7	0.761	19.8	<0.004	0.019	0.0353	330	0.1	0.128
Benzo(g,h,i)perylene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	27,000 ⁽²⁾	1.7	12.6	0.386	5.89	<0.004	0.01	<0.0394	152	0.025	0.0462
Benzo(k)fluoranthene	9	78	1,700	---	---	---	---	---	49	1.7	10.4	0.292	7.88	<0.004	0.007	<0.0085	127	0.038	<0.00811
Chrysene	88	780	17,000	---	---	---	---	---	160	2.7	26.1	0.757	21.6	<0.004	0.02	<0.0772	255	0.083	<0.0737
Dibenzo(a,h)anthracene	0.09	0.80	17	---	---	---	---	---	2	0.42	3.19	<0.193	2.01	<0.004	<0.004	<0.0154	39.5	0.009	<0.0147
Fluoranthene	3,100	82,000	82,000	---	---	---	---	---	4,300	4.1	88.4	2.37	67.5	0.004	0.052	<0.510	905	0.239	<0.486
Fluorene	3,100	82,000	82,000	---	---	---	---	---	560	0.18	41.8	1.2	38.3	<0.004	0.022	<0.108	394	0.233	0.363
Indeno(1,2,3-cd)pyrene	0.90	8.00	170	---	---	---	---	---	14	1.6	11.3	0.36	8.13	<0.004	0.009	<0.0224	143	0.027	0.0398
Naphthalene	1,600	41,000	4,100	170	270	1.8	34	34	12	0.2	242	10.6	187	0.098	0.109	<0.510	2250	5.14	6.75
Phenanthrene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	200 ⁽²⁾	2.5	144	3.88	118	0.005	0.076	<0.510	1160	0.411	<0.486
Pyrene	2,300	61,000	61,000	---	---	---	---	---	4,200	3	73.9	1.82	54.4	0.004	0.043	<0.139	703	0.19	0.184
Notes:																			
⁽¹⁾ Objectives are for Class I groundwater.																			
⁽²⁾ Non-TACO or provisional ROs provided by the IEPA.																			
--- No objective has been published for this constituent by the IEPA, or the sample was not analyzed for this constituent.																			
Concentration exceeds one or more Tier 1 Remediation Objective.																			

ISCO Area Geoprobe Comparison
Champaign MGP

											ORIGINAL SAMPLE	POST ISCO SAMPLE	IEPA SPLIT POST ISCO	ORIGINAL SAMPLE	POST ISCO SAMPLE	ORIGINAL SAMPLE	POST ISCO SAMPLE
											IW-PT-205	IW-PT-205B	X-102	IW-PT-207	IW-PT-207B	IW-PT-207	IW-PT-207B
											IW-PT-205 (17-18)	IW-PT-205B (17-18)	12/2/2009	IW-PT-207 (13-14)	IW-PT-207B (13-14)	IW-PT-207 (18.5-19.5)	IW-PT-207B (18.5-19.5)
											4/8/2009	12/2/2009	12/2/2009	4/7/2009	12/2/2009	4/7/2009	12/2/2009
											17-18	17-18	17-18	13-14	13-14	18.5-19.5	18.5-19.5
Soil Ingestion			Soil Inhalation			Indoor Air		Soil		IEPA Accepted							
Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial	Component to Groundwater ⁽¹⁾	Background Levels for MSA								
BTEX Constituents (mg/kg)																	
Benzene	12	100	2,300	0.8	1.6	2.2	0.069	0.51	0.03	---	1.54	0.102	---	102	15.3	10.9	10.9
Ethylbenzene	7,800	200,000	20,000	400	400	58	240	240	13	---	0.202	0.457	---	18.8	<19.8	0.56	0.1
Toluene	16,000	410,000	410,000	650	650	42	130	130	12	---	0.682	0.086	---	167	11	7.37	2.58
Xylenes	16,000	410,000	41,000	320	320	5.6	63	100	150	---	0.973	0.835	---	236	7.8	4.43	0.509
PNA Constituents (mg/kg)																	
Acenaphthene	4,700	120,000	120,000	---	---	---	---	---	570	0.13	0.004	0.054	<0.886	45.9	55.2	0.018	0.009
Acenaphthylene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	85 ⁽²⁾	0.07	0.055	0.333	<0.487	243	387	0.033	0.018
Anthracene	23,000	610,000	610,000	---	---	---	---	---	12,000	0.4	<0.004	0.276	<0.487	167	187	0.039	0.016
Benzo(a)anthracene	0.90	8	170	---	---	---	---	---	2	1.8	0.006	0.213	0.296	127	130	0.042	0.014
Benzo(a)pyrene	0.09	0.80	17	---	---	---	---	---	8	2.1	0.004	0.202	0.102	116	124	0.035	0.011
Benzo(b)fluoranthene	0.90	8	170	---	---	---	---	---	5	2.1	0.005	0.219	0.262	126	128	0.037	0.012
Benzo(g,h,i)perylene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	27,000 ⁽²⁾	1.7	<0.004	0.109	0.142	54.5	57.6	0.017	0.007
Benzo(k)fluoranthene	9	78	1,700	---	---	---	---	---	49	1.7	<0.004	0.086	0.0903	47.4	46.6	0.015	0.004
Chrysene	88	780	17,000	---	---	---	---	---	160	2.7	0.004	0.21	0.219	121	138	0.041	0.014
Dibenzo(a,h)anthracene	0.09	0.80	17	---	---	---	---	---	2	0.42	<0.004	<0.038	<0.0148	15.1	16.6	0.005	<0.004
Fluoranthene	3,100	82,000	82,000	---	---	---	---	---	4,300	4.1	0.011	0.608	0.782	362	396	0.103	0.033
Fluorene	3,100	82,000	82,000	---	---	---	---	---	560	0.18	0.005	0.269	0.312	199	230	0.034	0.017
Indeno(1,2,3-cd)pyrene	0.90	8.00	170	---	---	---	---	---	14	1.6	<0.004	0.104	0.125	51.7	55.8	0.016	0.006
Naphthalene	1,600	41,000	4,100	170	270	1.8	34	34	12	0.2	1.77	0.679	1.18	1230	1670	0.456	0.106
Phenanthrene	2,300 ⁽²⁾	61,000 ⁽²⁾	61,000 ⁽²⁾	---	---	---	---	---	200 ⁽²⁾	2.5	0.01	0.938	1.1	504	670	0.134	0.055
Pyrene	2,300	61,000	61,000	---	---	---	---	---	4,200	3	0.009	0.497	0.61	282	322	0.088	0.03
Notes:																	
⁽¹⁾ Objectives are for Class I groundwater.																	
⁽²⁾ Non-TACO or provisional ROs provided by the IEPA.																	
--- No objective has been published for this constituent by the IEPA, or the sample was not analyzed for this constituent.																	
Concentration exceeds one or more Tier 1 Remediation Objective.																	

MEMORANDUM



STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

To: Jeffery Miller (PSC)

Date: September 11, 2009

From: Scott Crawford

cc:

Re: In-Situ Chemical Oxidation Pilot Study Summary
Former Champaign MGP Facility
Champaign, Illinois
XDD Project 09003

This memorandum summarizes the In-Situ Chemical Oxidation (ISCO) Pilot Study activities performed by XDD, LLC (XDD) at the Former Champaign MGP Facility site (the Site). The ISCO pilot study was conducted from July 13 through July 17, 2009. As presented in Table 1, a total of 8,763 gallons of oxidant solution was injected into 18 wells during the pilot study. The oxidant solution included an estimated 16,162 pounds (lbs) of sodium persulfate an estimated 6,635 lbs of sodium hydroxide. The chronology and details of ISCO pilot study events are shown in Table 1 and a summary of the oxidant volumes injected into each well is presented in Table 2. Groundwater monitoring results are presented in Table 3.

7/13/09 – Monday

Mobilize to site
Set up batching and injection system
No injecting

7/14/09 – Tuesday

Finish set up of batching/injection system
Conduct baseline groundwater monitoring from two shallow wells (PTIW-102 and PTIW-107) and two deep wells (PTIW-203 and PTIW-205).

Batching details:

- Two batches were mixed
- **Each batch = 870 gallons (31 bags of sodium persulfate and 2 drums of NaOH)**
- Total of 1,740 gallons of solution
- 3,410 lbs (62 bags) of sodium persulfate
- Approximately 220 gallons (4 drums) of sodium hydroxide

Water test system



Injection details:

- Injected 763 gallons of solution into shallow wells.
- Daylighting began after approximately 200 gallons had been injected into the shallow subsurface. First daylighting near PTIW-103 (after ~20 gallons injected into PTIW-103)
- Daylighting was not occurring around the wells (i.e. no well “failures”), but was surfacing near the wells (~5 ft from PTIW-105; ~ 5 ft from PTIW-106; and around PTIW-209).
- Groundwater that was daylighting was tested for persulfate –persulfate was detected at only one location (around deep well PTIW-206 at a concentration > 70mg/L).

7/15/09 – Wednesday

Batching details:

- Four batches were mixed
- **Each batch = 870 gallons (31 bags of sodium persulfate and 2 drums of NaOH)**
- Total of 3,480 gallons of solution
- 6,820 lbs (124 bags) of sodium persulfate
- Approximately 440 gallons (8 drums) of sodium hydroxide

Injection details:

- Began day injecting into shallow injection wells
- Daylighting “everywhere”, with significant daylighting along the western side of the injection area, moving toward sixth street.
- Stop injecting into shallow injection wells (598 gallons injected into shallow wells)
- Begin injection into deep injection wells (2,308 gallons injected into deep wells).
- Injection stopped early (15:00 hrs) due to problems with generator/pump.
- Total of 2,847 gallons injected.

7/16/07 – Thursday

Batching details:

- Three batches were mixed
- **Each batch = 870 gallons (31 bags of sodium persulfate and 2 drums of NaOH)**
- Total of 2,610 gallons of solution
- 5,115 lbs (93 bags) of sodium persulfate
- Approximately 330 gallons (6 drums) of sodium hydroxide

Injection Details:

- Depth to water measured at 2.5 ft TOC (at PTIW-104) before starting injection. After 10 minutes of injection, well was overflowing.

- After 2 hours of injection (approximately 1800 gallons injected), daylighting along south and west sides of injection area (at several locations, but primarily at a location approximately 15 ft from SE corner of injection area). A sheen was observed on the groundwater daylighting at several locations and persulfate test indicated > 70 mg/L. Injection stopped.
- Injection resumed after 90 minutes. Significant daylighting at southeast corner of injection area after 45 minutes of injection. Injection stopped.
- Injection resumed after 90 minutes. Significant daylighting along southern and western sides and at the southeast corner of injection area after 50 minutes of injection. Injection stopped.
- Injection resumed after 90 minutes. Significant daylighting along southern edge and at the southeast corner of injection area after 40 minutes of injection. Injection stopped for the day due to concern that daylighting west of the injection area would reach 5th Street.
- Persulfate was reportedly flowing into the excavation, along the western wall of the excavation
- A total of 3,226 gallons injected into deep wells.

07/17/09 – Friday

Batching details:

- One half of a batch mixed
- **Half batch = 430 gallons (15 bags of sodium persulfate and 1 drum of NaOH)**
- Total of 430 gallons of solution
- 825 lbs of sodium persulfate
- 55 gallons of sodium hydroxide

Injection Details:

- Attempted to measure depth to water measured at PTIW-104 before starting injection, but well was under pressure and was overflowing when opened.
- Significant daylighting along southern edge and at the southeast corner of injection area after 25 minutes of injection. Daylighting was observed along southern side of injection area, in a reasonably straight line toward the excavation. It is reported that piping may be located in this area, extending into the western wall of the excavation.
- Persulfate was reportedly observed flowing into the excavation.
- Injection was stopped after approximately 90 minutes of injection; injection resumed after 1 hour.
- Significant daylighting along southern and western edge and at the southeast corner of injection area almost immediately after resuming injection. Injection stopped after 1 hour.

Groundwater monitoring was conducted at shallow wells PTIW-102 and PTIW-107.

APPENDIX X BENCH TEST RESULTS Champaign, IL

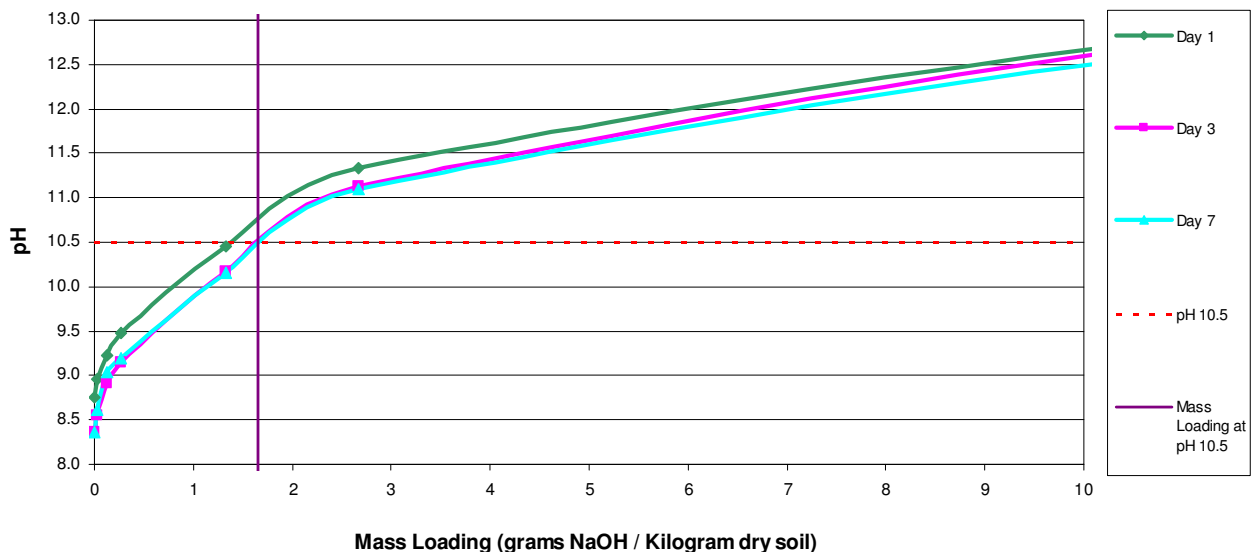
OBJECTIVES

The following tests were conducted on a soil composite collected from boring B-502 to evaluate the potential field application of sodium persulfate:

- **Base Buffering Capacity:** The quantity of base required to raise and maintain the pH above 10.5 was assessed (for alkaline activation of sodium persulfate) and calculated as grams (g) of sodium hydroxide per kilogram (Kg) of soil (mass loading).
- **Persulfate Stability.** The decomposition of two concentrations of persulfate (150 grams per liter [g/L] and 300 g/L) in contact with the site soil was evaluated after 14 days for:
 - Unactivated Persulfate
 - Alkaline Activated Persulfate
 - Iron-Citric Acid Activated Persulfate
- **Soil oxidant demand.** Soil oxidant demand (SOD), also referred to as non-target oxidant demand (NOD), was calculated using the data generated in the persulfate stability test by calculating the mass (in grams) of oxidant consumed per Kg of dry soil in each reactor.

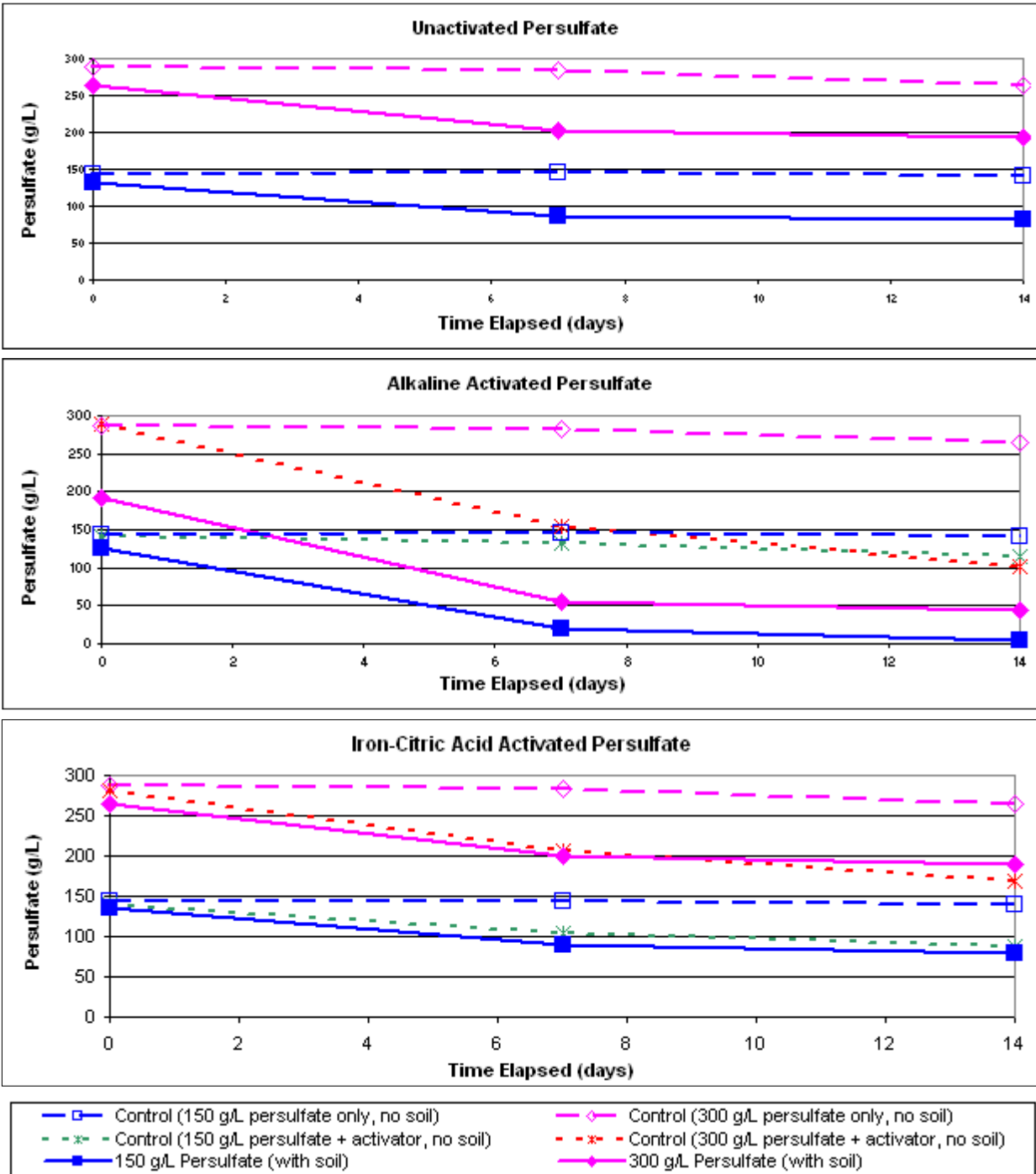
RESULTS

Base Buffering Capacity: Approximately 1.7 g of sodium hydroxide per Kg of site soil is required to elevate the pH of the subsurface to greater than pH 10.5, where alkaline activation typically occurs, as shown below.



Notes:
NaOH = sodium hydroxide
Reagent solutions occupied 11.4 milliliters in 20 grams of moist soil.

Persulfate Stability: The stability test results indicate alkaline activated persulfate is the least stable in the presence of the site soils, with less than 3 and 23% of the original persulfate remaining in the reactors after 14 days. Iron-citric acid activated persulfate was moderately stable and unactivated persulfate was the most stable in the presence of the site soils.



Notes:

g/L = grams per liter

Activators were sodium hydroxide or iron-citric acid

Alkaline activated persulfate was activated with sodium hydroxide (NaOH) at an approximate 1:2.1 molar ratio (persulfate:NaOH).

Iron-citric acid activated persulfate was activated with iron (Fe) and citric acid (CA) at a 100:1:6 molar ratio (persulfate:Fe:CA).

Reagent solutions occupied 11.4 milliliters in 20 grams moist soil.



The above testing only indicates the rate of persulfate decomposition in the presence of the site soils and under activated/unactivated conditions. These tests do not provide a measure of efficiency for contaminant destruction.

During the stability test, the pH in the alkaline activated persulfate reactors decreased after 7 days and was therefore re-adjusted by adding sodium hydroxide.

pH Readings

Oxidant		Reactors	pH		
			Day 1	Day 7	Day 14
None		Control (20 g soil)	8.76	8.36	7.63
Unactivated Persulfate	150 g/L	Control (no soil)	3.00	2.23	1.88
		20 g soil	5.82	5.90	5.92
	300 g/L	Control (no soil)	2.55	1.74	1.32
		20 g soil	5.60	5.72	6.06
Alkaline Activated Persulfate	150 g/L	Control (no soil)	13.55	13.56	13.58
		20 g soil	12.64	8.66 *	11.82
	300 g/L	Control (no soil)	13.63	13.67	13.64
		20 g soil	12.98	9.45 *	10.75
Iron-Citric Acid Activated Persulfate	150 g/L	Control (no soil)	0.94	0.84	0.79
		20 g soil	5.21	5.54	4.81
	300 g/L	Control (no soil)	0.60	0.48	0.47
		20 g soil	4.86	5.31	5.28

Notes:

* NaOH was added to these reactors after Day 7 measurements to bring the pH back to >10.5

Soil Oxidant Demand: The SOD test results indicate a moderate NOD for the unactivated persulfate and iron-citric acid activated persulfate systems, and a high NOD for the alkaline activated persulfate systems.

Oxidant	Reactors	Day 14 Soil Oxidant Demand (grams oxidant / Kilogram dry soil)
Unactivated Persulfate	150 g/L Persulfate	33.7
	300 g/L Persulfate	47.2
Alkaline Activated Persulfate	150 g/L Persulfate	86.0
	300 g/L Persulfate	146.8
Iron-Citric Acid Activated Persulfate	150 g/L Persulfate	35.4
	300 g/L Persulfate	49.0

Notes:

g/L = grams per liter

Alkaline activated persulfate was activated with NaOH at an approximate 1:2.1 molar ratio (persulfate:NaOH).

Iron activated persulfate was activated with iron (Fe) and citric acid (CA) at a 100:1:6 molar ratio (persulfate:Fe:CA).

Reagent solutions occupied 11.4 milliliters in 20 grams moist soil.



Field Injection Dosing Recommendation: Based on the above results, the following oxidant/reagent dosage is recommended for the field pilot testing:

- Persulfate: ~200 to 250 g/L (total of ~25,000 LBs sodium persulfate)
- NaOH: ~100 g/L (total of 10,500 LBs of NaOH)



Friday, December 18, 2009

Mr. Lance Range
Illinois Environmental Protection Agency - BOL
Bureau of Land PO Box 19276
Springfield, IL 62794-9276
TEL: (217) 785-9384
FAX: NA

RE: LPC#0190100008 / Champaign, IL

PAS WO: 09L0082

Prairie Analytical Systems, Inc. received 4 sample(s) on 12/4/2009 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (217) 753-1148.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "JP Rouanet", written over a light gray rectangular background.

Jean-Pierre Rouanet
Laboratory Director

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL
Project: LPC#0190100008 / Champaign, IL
Client Sample ID: S918709-01 / X101
Collection Date: 12/2/09 10:34

Lab Order: 09L0082
Lab ID: 09L0082-01
Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	884		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Acenaphthylene	U	486		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Anthracene	U	486		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Benzo(a)anthracene	102	6.41		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Benzo(b)fluoranthene	128	8.11		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Benzo(k)fluoranthene	U	8.11		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Benzo(g,h,i)perylene	46.2	37.6		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Benzo(a)pyrene	70.9	11.1		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Chrysene	U	73.7		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Dibenz(a,h)anthracene	U	14.7		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Fluoranthene	U	486		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Fluorene	363	103		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Indeno(1,2,3-cd)pyrene	39.8	21.4		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Naphthalene	6750	4860		µg/Kg dry	10	12/8/09 12:17	12/9/09 14:18	SW 8270C	CJM
*Phenanthrene	U	486		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP
*Pyrene	184	133		µg/Kg dry	1	12/8/09 12:17	12/8/09 18:50	SW 8270C	BDP

Conventional Chemistry Parameters

Percent Solids	86.7	0.0100		%	1	12/9/09 9:35	12/9/09 18:15	ASTM D2216	AJD
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Client Sample ID: S918709-02 / X102
Collection Date: 12/2/09 10:35

Lab ID: 09L0082-02
Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	886		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Acenaphthylene	U	487		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Anthracene	U	487		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Benzo(a)anthracene	296	6.42		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Benzo(b)fluoranthene	262	8.12		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Benzo(k)fluoranthene	90.3	8.12		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Benzo(g,h,i)perylene	142	37.6		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Benzo(a)pyrene	102	11.1		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Chrysene	219	73.8		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Dibenz(a,h)anthracene	U	14.8		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Fluoranthene	782	487		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Fluorene	312	103		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Indeno(1,2,3-cd)pyrene	125	21.4		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Naphthalene	1180	487		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Phenanthrene	1100	487		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP
*Pyrene	610	133		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:21	SW 8270C	BDP

Conventional Chemistry Parameters

Percent Solids	88.2	0.0100		%	1	12/9/09 9:35	12/9/09 18:15	ASTM D2216	AJD
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LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL
 Project: LPC#0190100008 / Champaign, IL
 Client Sample ID: S918709-03 / X103
 Collection Date: 12/2/09 11:15

Lab Order: 09L0082
 Lab ID: 09L0082-03
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	11300		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Acenaphthylene	U	62500		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Anthracene	U	62500		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Benzo(a)anthracene	22100	82.2		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Benzo(b)fluoranthene	19800	104		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Benzo(k)fluoranthene	7880	104		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Benzo(g,h,i)perylene	5890	482		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Benzo(a)pyrene	16500	142		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Chrysene	21600	945		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Dibenz(a,h)anthracene	2010	189		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Fluoranthene	67500	62500		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Fluorene	38300	13300		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Indeno(1,2,3-cd)pyrene	8130	274		µg/Kg dry	10	12/8/09 12:17	12/8/09 23:12	SW 8270C	JKA
*Naphthalene	187000	62500		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Phenanthrene	118000	62500		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA
*Pyrene	54400	17000		µg/Kg dry	100	12/8/09 12:17	12/9/09 16:31	SW 8270C	JKA

Conventional Chemistry Parameters

Percent Solids	74.0	0.0100		%	1	12/9/09 9:35	12/9/09 18:15	ASTM D2216	AJD
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Client Sample ID: S918709-04 / X104
 Collection Date: 12/2/09 11:36

Lab ID: 09L0082-04
 Matrix: Solid

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Semi-Volatile Organic Compounds by GC-MS									
*Acenaphthene	U	927		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Acenaphthylene	U	510		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Anthracene	U	510		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Benzo(a)anthracene	22.3	6.72		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Benzo(b)fluoranthene	35.3	8.50		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Benzo(k)fluoranthene	U	8.50		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Benzo(g,h,i)perylene	U	39.4		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Benzo(a)pyrene	20.3	11.6		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Chrysene	U	77.2		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Dibenz(a,h)anthracene	U	15.4		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Fluoranthene	U	510		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Fluorene	U	108		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Indeno(1,2,3-cd)pyrene	U	22.4		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Naphthalene	U	510		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Phenanthrene	U	510		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP
*Pyrene	U	139		µg/Kg dry	1	12/8/09 12:17	12/8/09 19:53	SW 8270C	BDP

Conventional Chemistry Parameters

Percent Solids	88.4	0.0100		%	1	12/9/09 9:35	12/9/09 18:15	ASTM D2216	AJD
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LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL

Project: LPC#0190100008 / Champaign, IL

Lab Order: 09L0082

Semi-Volatile Organic Compounds by GC-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch S003958 - SW 3550B PNA

Blank (S003958-BLK1)

Prepared & Analyzed: 12/08/200

Acenaphthene	U	333	µg/Kg wet							
Acenaphthylene	U	333	µg/Kg wet							
Anthracene	U	333	µg/Kg wet							
Benzo(a)anthracene	U	6.09	µg/Kg wet							
Benzo(b)fluoranthene	U	7.70	µg/Kg wet							
Benzo(k)fluoranthene	U	7.70	µg/Kg wet							
Benzo(g,h,i)perylene	U	35.7	µg/Kg wet							
Benzo(a)pyrene	U	10.5	µg/Kg wet							
Chrysene	U	70.0	µg/Kg wet							
Dibenz(a,h)anthracene	U	14.0	µg/Kg wet							
Fluoranthene	U	333	µg/Kg wet							
Fluorene	U	98.0	µg/Kg wet							
Indeno(1,2,3-cd)pyrene	U	20.3	µg/Kg wet							
Naphthalene	U	333	µg/Kg wet							
Phenanthrene	U	333	µg/Kg wet							
Pyrene	U	126	µg/Kg wet							

Surrogate: 2-Fluorobiphenyl

15.0

mg/L

20.000

75

38-122

Surrogate: Nitrobenzene-d5

12.3

mg/L

20.000

61

45-136

Surrogate: 4-Terphenyl-d14

14.9

mg/L

20.000

74

64-131

LCS (S003958-BS1)

Prepared & Analyzed: 12/08/200

Acenaphthene	483	840	µg/Kg wet	666.67		72	50-135			
Acenaphthylene	511	462	µg/Kg wet	666.67		77	51-134			
Anthracene	463	462	µg/Kg wet	666.67		69	56-131			
Benzo(a)anthracene	542	6.09	µg/Kg wet	666.67		81	61-144			
Benzo(b)fluoranthene	479	7.70	µg/Kg wet	666.67		72	57-134			
Benzo(k)fluoranthene	479	7.70	µg/Kg wet	666.67		72	59-168			
Benzo(g,h,i)perylene	518	35.7	µg/Kg wet	666.67		78	56-147			
Benzo(a)pyrene	432	10.5	µg/Kg wet	666.67		65	41-133			
Chrysene	430	70.0	µg/Kg wet	666.67		64	63-150			
Dibenz(a,h)anthracene	521	14.0	µg/Kg wet	666.67		78	60-170			
Fluoranthene	539	462	µg/Kg wet	666.67		81	65-147			
Fluorene	512	98.0	µg/Kg wet	666.67		77	47-154			
Indeno(1,2,3-cd)pyrene	486	20.3	µg/Kg wet	666.67		73	59-132			
Naphthalene	449	462	µg/Kg wet	666.67		67	40-135			
Phenanthrene	497	462	µg/Kg wet	666.67		75	62-134			
Pyrene	528	126	µg/Kg wet	666.67		79	64-147			

Surrogate: 2-Fluorobiphenyl

15.2

mg/L

20.000

76

38-122

Surrogate: Nitrobenzene-d5

13.1

mg/L

20.000

65

45-136

Surrogate: 4-Terphenyl-d14

16.3

mg/L

20.000

81

64-131

LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL

Project: LPC#0190100008 / Champaign, IL

Lab Order: 09L0082

Semi-Volatile Organic Compounds by GC-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch S003958 - SW 3550B PNA

Matrix Spike (S003958-MS1)

Source: 09L0103-12

Prepared: 12/08/200 Analyzed: 12/09/200

Acenaphthene	430	890	µg/Kg dry	706.17	ND	61	50-135			
Acenaphthylene	483	489	µg/Kg dry	706.17	ND	68	51-134			
Anthracene	475	489	µg/Kg dry	706.17	ND	67	56-131			
Benzo(a)anthracene	473	6.45	µg/Kg dry	706.17	ND	67	61-144			
Benzo(b)fluoranthene	456	8.16	µg/Kg dry	706.17	ND	65	57-134			
Benzo(k)fluoranthene	524	8.16	µg/Kg dry	706.17	ND	74	59-168			
Benzo(g,h,i)perylene	512	37.8	µg/Kg dry	706.17	ND	73	56-147			
Benzo(a)pyrene	396	11.1	µg/Kg dry	706.17	ND	56	41-133			
Chrysene	457	74.1	µg/Kg dry	706.17	ND	65	63-150			
Dibenz(a,h)anthracene	511	14.8	µg/Kg dry	706.17	ND	72	60-170			
Fluoranthene	504	489	µg/Kg dry	706.17	ND	71	65-147			
Fluorene	443	104	µg/Kg dry	706.17	ND	63	47-154			
Indeno(1,2,3-cd)pyrene	496	21.5	µg/Kg dry	706.17	ND	70	59-132			
Naphthalene	428	489	µg/Kg dry	706.17	ND	61	40-135			
Phenanthrene	519	489	µg/Kg dry	706.17	ND	73	62-134			
Pyrene	501	133	µg/Kg dry	706.17	ND	71	64-147			
Surrogate: 2-Fluorobiphenyl	13.9		mg/L	20.000		70	38-122			
Surrogate: Nitrobenzene-d5	12.1		mg/L	20.000		60	45-136			
Surrogate: 4-Terphenyl-d14	14.4		mg/L	20.000		72	64-131			

Matrix Spike Dup (S003958-MSD1)

Source: 09L0103-12

Prepared: 12/08/200 Analyzed: 12/09/200

Acenaphthene	435	902	µg/Kg dry	715.58	ND	61	50-135	1	20	
Acenaphthylene	505	496	µg/Kg dry	715.58	ND	71	51-134	4	20	
Anthracene	451	496	µg/Kg dry	715.58	ND	63	56-131	5	20	
Benzo(a)anthracene	533	6.54	µg/Kg dry	715.58	ND	74	61-144	12	20	
Benzo(b)fluoranthene	536	8.26	µg/Kg dry	715.58	ND	75	57-134	16	20	
Benzo(k)fluoranthene	457	8.26	µg/Kg dry	715.58	ND	64	59-168	14	20	
Benzo(g,h,i)perylene	495	38.3	µg/Kg dry	715.58	ND	69	56-147	3	20	
Benzo(a)pyrene	421	11.3	µg/Kg dry	715.58	ND	59	41-133	6	20	
Chrysene	403	75.1	µg/Kg dry	715.58	ND	56	63-150	13	20	
Dibenz(a,h)anthracene	481	15.0	µg/Kg dry	715.58	ND	67	60-170	6	20	
Fluoranthene	559	496	µg/Kg dry	715.58	ND	78	65-147	10	20	
Fluorene	466	105	µg/Kg dry	715.58	ND	65	47-154	5	20	
Indeno(1,2,3-cd)pyrene	483	21.8	µg/Kg dry	715.58	ND	68	59-132	3	20	
Naphthalene	425	496	µg/Kg dry	715.58	ND	59	40-135	0.8	20	
Phenanthrene	488	496	µg/Kg dry	715.58	ND	68	62-134	6	20	
Pyrene	479	135	µg/Kg dry	715.58	ND	67	64-147	4	20	
Surrogate: 2-Fluorobiphenyl	13.4		mg/L	20.000		67	38-122			
Surrogate: Nitrobenzene-d5	11.9		mg/L	20.000		60	45-136			
Surrogate: 4-Terphenyl-d14	14.9		mg/L	20.000		75	64-131			

LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL
Project: LPC#0190100008 / Champaign, IL **Lab Order:** 09L0082
Conventional Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch S003974 - ASTM D2216 Moisture

Blank (S003974-BLK1) Prepared & Analyzed: 12/09/200

Percent Solids	U	0.0100	%							
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Duplicate (S003974-DUP1) **Source: 09L0082-01** Prepared & Analyzed: 12/09/200

Percent Solids	87.4	0.0100	%		86.7			0.8	20	
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LABORATORY RESULTS

Client: Illinois Environmental Protection Agency - BOL

Project: LPC#0190100008 / Champaign, IL

Lab Order: 09L0082

Notes and Definitions

* NELAC certified compound.

U Analyte not detected (i.e. less than RL or MDL).

550

Illinois Environmental Protection Agency Chain of Custody

1. NC 2. VOC - HCl 3. Metals - HNO ₃ 4. Cyanide - NaOH 5. Other 6. Other	Contain. Description Soil VOC - 2 oz. glass (2) SVOC - 8 oz. glass (1) PestPCB - 8 oz. glass (1) Inorganics - 18 oz. glass (1)	Fund LP52-179	LPO# 0190100008	Locality CHAMPAIGN	Cooler Initially Sealed By 	Date Initially Sealed 7-7-09
	Aquatics VOC - 40 mL glass (3) SVOC, PestPCB - 40 oz amber glass (1) Inorganics - 1 qt. plastic (1)	Section Illinois Power Town Gas Plant	Site Name Illinois Power Town Gas Plant	Project Manager Greg Dunn	Phone Number 217-785-2359	Initial Cooler Seal # 357

Lab Sample No.	Parameter Group	Collection Information				Time Collected (24 hr clock)	Sampler's Initials	Special Notations	Legal Hold Y or N
		Field Number	Matrix	No. of Bottles	Date Collected				
S918709-01	for SVOC for	X101	Soil	3-ENCASE 2-JAR	12-2-09	MSM	IW-PT-205B 13 FEET P10 1.1		
S918709-02	X	X102	Soil	3-ENCASE 2-JAR	12-2-09	MSM	IW-PT-205B - Deep 17-18 FEET P10 1.2		
S918709-03	X	X103	Soil	3-ENCASE 2-JAR	12-2-09	MSM	IW-PT-201B 11-12 FEET P10 1.4		
S918709-04	X	X104	Soil	3-ENCASE 2-JAR	12-2-09	MSM	IW-PT 201B 18-19 FEET P10 1.3		
<div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> Please analyze for 8270 with low detect limits </div>									

Cooler: I certify that I received the sample shipping container with the shipping container sealed and intact.

Cooler Opened by: MIKE MULLINS Date: 12-2-09 7:10 Seal No.: 357 Intact: Y-N

Cooler Sealed By: MIKE MULLINS Date: 12-2-09 11:55 Seal No.: 244 Intact: Y-N

I certify that I received the cooler containing the above samples with the seal(s) intact.

Received for Lab by: Date: 12/2/09 13:55 Seal No.: 0244 Intact: Y-N

Lab Comments: Date: 12/4/09 8:55 Sample Courier: MIKE MULLINS

Supervisor Releasing Results: Date: 12-10-09 Turnaround Time Requested: MIKE MULLINS

December 09, 2009

Pete Sazama
PSC Industrial Outsourcing, LP
210 West Sand Bank Road
Columbia, IL 62236-0230
TEL: (618) 281-7173
FAX: (618) 281-5120



RE: A831-735002-012901-225/Ameren Champaign
6249080120

WorkOrder: 09120189

Dear Pete Sazama:

TEKLAB, INC received 6 samples on 12/3/2009 11:48:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Heather A. White".

Heather A. White
Project Manager
(618)344-1004 ex 20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

SAMPLE SUMMARY

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Lab Order: 09120189

Report Date: 09-Dec-09

Lab Sample ID	Client Sample ID	Fractions	Collection Date
09120189-001	IW-PT-207B (13-14)	4	12/2/2009 11:45:00 AM
09120189-002	IW-PT-207B (18.5-19.5)	4	12/2/2009 12:15:00 PM
09120189-003	IW-PT-205B (12.5-13.5)	4	12/2/2009 10:20:00 AM
09120189-004	IW-PT-205B (17-18)	4	12/2/2009 10:35:00 AM
09120189-005	IW-PT-201B (11.5-12.5)	4	12/2/2009 11:15:00 AM
09120189-006	IW-PT-201B (18-19)	4	12/2/2009 11:25:00 AM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

CASE NARRATIVE

Project: A831-735002-012901-225/Ameren Champaign 6249080120

LabOrder: 09120189

Report Date: 09-Dec-09

Cooler Receipt Temp: 3.0 °C

State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

Q - QC criteria failed or noncompliant CCV

NELAP - IL ELAP and NELAP Accredited Field of Testing

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

- Unknown hydrocarbon

IDPH - IL Dept. of Public Health

C - Client requested RL below PQL

D - Diluted out of sample

E - Value above quantitation range

H - Holding time exceeded

MI - Matrix interference

DNI - Did not ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-001
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-207B (13-14)
Collection Date: 12/2/2009 11:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		12.5	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		87.5	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	5.38		55.2	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Acenaphthylene	NELAP	5.38		387	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Anthracene	NELAP	5.38		187	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Benzo(a)anthracene	NELAP	5.38		130	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Benzo(a)pyrene	NELAP	5.38		124	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Benzo(b)fluoranthene	NELAP	5.38		128	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	5.38		57.6	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Benzo(k)fluoranthene	NELAP	5.38		46.6	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Chrysene	NELAP	5.38		138	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	5.38		16.6	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Fluoranthene	NELAP	5.38		396	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Fluorene	NELAP	5.38		230	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	5.38		55.8	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Naphthalene	NELAP	5.38		1670	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Phenanthrene	NELAP	5.38		670	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Pyrene	NELAP	5.38		322	mg/Kg-dry	250	12/7/2009 10:17:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		49.9	%REC	250	12/7/2009 10:17:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.9	%REC	250	12/7/2009 10:17:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		99.8	%REC	250	12/7/2009 10:17:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	3960		15300	µg/Kg-dry	2500	12/4/2009 12:52:00 PM	RWE
Ethylbenzene	NELAP	19800		ND	µg/Kg-dry	2500	12/4/2009 12:52:00 PM	RWE
Toluene	NELAP	19800	J	11000	µg/Kg-dry	2500	12/4/2009 12:52:00 PM	RWE
Xylenes, Total	NELAP	19800	J	7800	µg/Kg-dry	2500	12/4/2009 12:52:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		98.9	%REC	2500	12/4/2009 12:52:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		100.8	%REC	2500	12/4/2009 12:52:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		101.8	%REC	2500	12/4/2009 12:52:00 PM	RWE
Surr: Toluene-d8		80.1-122		102.9	%REC	2500	12/4/2009 12:52:00 PM	RWE

Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-002
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-207B (18.5-19.5)
Collection Date: 12/2/2009 12:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		11.2	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		88.8	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		0.009	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.018	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Anthracene	NELAP	0.004		0.016	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.014	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.007	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Chrysene	NELAP	0.004		0.014	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Fluoranthene	NELAP	0.004		0.033	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Fluorene	NELAP	0.004		0.017	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Naphthalene	NELAP	0.004		0.106	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Phenanthrene	NELAP	0.004		0.055	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Pyrene	NELAP	0.004		0.030	mg/Kg-dry	1	12/7/2009 12:57:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		58.1	%REC	1	12/7/2009 12:57:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		56.3	%REC	1	12/7/2009 12:57:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		70.7	%REC	1	12/7/2009 12:57:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	76.8		10900	µg/Kg-dry	50	12/4/2009 1:20:00 PM	RWE
Ethylbenzene	NELAP	384	J	100	µg/Kg-dry	50	12/4/2009 1:20:00 PM	RWE
Toluene	NELAP	384		2580	µg/Kg-dry	50	12/4/2009 1:20:00 PM	RWE
Xylenes, Total	NELAP	384		509	µg/Kg-dry	50	12/4/2009 1:20:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		105.2	%REC	50	12/4/2009 1:20:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		103.8	%REC	50	12/4/2009 1:20:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		101.1	%REC	50	12/4/2009 1:20:00 PM	RWE
Surr: Toluene-d8		80.1-122		102.0	%REC	50	12/4/2009 1:20:00 PM	RWE

Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-003
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-205B (12.5-13.5)
Collection Date: 12/2/2009 10:20:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		12.2	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		87.8	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		0.093	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.666	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Anthracene	NELAP	0.004		0.108	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.077	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.081	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.100	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.025	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.038	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Chrysene	NELAP	0.004		0.083	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Fluoranthene	NELAP	0.004		0.239	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Fluorene	NELAP	0.004		0.233	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.027	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Naphthalene	NELAP	0.096		5.14	mg/Kg-dry	25	12/7/2009 10:52:00 PM	MAV
Phenanthrene	NELAP	0.004		0.411	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Pyrene	NELAP	0.004		0.190	mg/Kg-dry	1	12/8/2009 1:34:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.3	%REC	1	12/8/2009 1:34:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		55.5	%REC	1	12/8/2009 1:34:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		82.0	%REC	1	12/8/2009 1:34:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	76.6		6640	µg/Kg-dry	50	12/4/2009 1:48:00 PM	RWE
Ethylbenzene	NELAP	383		430	µg/Kg-dry	50	12/4/2009 1:48:00 PM	RWE
Toluene	NELAP	383		3980	µg/Kg-dry	50	12/4/2009 1:48:00 PM	RWE
Xylenes, Total	NELAP	383		3320	µg/Kg-dry	50	12/4/2009 1:48:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		102.9	%REC	50	12/4/2009 1:48:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		102.8	%REC	50	12/4/2009 1:48:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		102.0	%REC	50	12/4/2009 1:48:00 PM	RWE
Surr: Toluene-d8		80.1-122		102.4	%REC	50	12/4/2009 1:48:00 PM	RWE

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-004
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-205B (17-18)
Collection Date: 12/2/2009 10:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		12.1	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		87.9	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.038		0.054	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Acenaphthylene	NELAP	0.038		0.333	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Anthracene	NELAP	0.038		0.276	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Benzo(a)anthracene	NELAP	0.038		0.213	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Benzo(a)pyrene	NELAP	0.038		0.202	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.038		0.219	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.038		0.109	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.038		0.086	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Chrysene	NELAP	0.038		0.210	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.038		ND	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Fluoranthene	NELAP	0.038		0.608	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Fluorene	NELAP	0.038		0.269	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.038		0.104	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Naphthalene	NELAP	0.038		0.679	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Phenanthrene	NELAP	0.038		0.938	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Pyrene	NELAP	0.038		0.497	mg/Kg-dry	10	12/7/2009 1:33:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		45.9	%REC	10	12/7/2009 1:33:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		45.9	%REC	10	12/7/2009 1:33:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	10	12/7/2009 1:33:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	1.8		102	µg/Kg-dry	1	12/7/2009 4:29:00 PM	RWE
Ethylbenzene	NELAP	111		457	µg/Kg-dry	12.5	12/4/2009 2:16:00 PM	RWE
Toluene	NELAP	111	J	86	µg/Kg-dry	12.5	12/4/2009 2:16:00 PM	RWE
Xylenes, Total	NELAP	111		835	µg/Kg-dry	12.5	12/4/2009 2:16:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		106.0	%REC	12.5	12/4/2009 2:16:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		98.4	%REC	12.5	12/4/2009 2:16:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		98.5	%REC	12.5	12/4/2009 2:16:00 PM	RWE
Surr: Toluene-d8		80.1-122		106.0	%REC	12.5	12/4/2009 2:16:00 PM	RWE

Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-005
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-201B (11.5-12.5)
Collection Date: 12/2/2009 11:15:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		12.8	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		87.2	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.193		0.316	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Acenaphthylene	NELAP	0.193		2.05	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Anthracene	NELAP	0.193		1.01	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Benzo(a)anthracene	NELAP	0.193		0.825	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Benzo(a)pyrene	NELAP	0.193		0.716	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.193		0.761	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.193		0.386	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.193		0.292	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Chrysene	NELAP	0.193		0.757	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.193		ND	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Fluoranthene	NELAP	0.193		2.37	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Fluorene	NELAP	0.193		1.20	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.193		0.360	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Naphthalene	NELAP	0.193		10.6	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Phenanthrene	NELAP	0.193		3.88	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Pyrene	NELAP	0.193		1.82	mg/Kg-dry	50	12/7/2009 2:10:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		49.9	%REC	50	12/7/2009 2:10:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		39.9	%REC	50	12/7/2009 2:10:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		59.9	%REC	50	12/7/2009 2:10:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	4100		7450	µg/Kg-dry	2500	12/4/2009 2:45:00 PM	RWE
Ethylbenzene	NELAP	20500	J	4500	µg/Kg-dry	2500	12/4/2009 2:45:00 PM	RWE
Toluene	NELAP	20500	J	8100	µg/Kg-dry	2500	12/4/2009 2:45:00 PM	RWE
Xylenes, Total	NELAP	20500	J	18000	µg/Kg-dry	2500	12/4/2009 2:45:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		99.2	%REC	2500	12/4/2009 2:45:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		100.6	%REC	2500	12/4/2009 2:45:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		100.7	%REC	2500	12/4/2009 2:45:00 PM	RWE
Surr: Toluene-d8		80.1-122		103.5	%REC	2500	12/4/2009 2:45:00 PM	RWE

Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09120189
Lab ID: 09120189-006
Report Date: 09-Dec-09

Client Project: A831-735002-012901-225/Ameren C
Client Sample ID: IW-PT-201B (18-19)
Collection Date: 12/2/2009 11:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>EPA SW846 3550C, 5035A, ASTM D2974</u>								
Percent Moisture		0.1		11.3	%	1	12/4/2009 11:55:00 AM	DLW
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		88.7	%	1	12/4/2009 11:55:00 AM	DLW
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		0.008	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.026	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Anthracene	NELAP	0.004		0.022	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.019	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.016	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.019	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.010	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Chrysene	NELAP	0.004		0.020	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Fluoranthene	NELAP	0.004		0.052	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Fluorene	NELAP	0.004		0.022	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Naphthalene	NELAP	0.004		0.109	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Phenanthrene	NELAP	0.004		0.076	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Pyrene	NELAP	0.004		0.043	mg/Kg-dry	1	12/7/2009 2:46:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		49.5	%REC	1	12/7/2009 2:46:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		47.9	%REC	1	12/7/2009 2:46:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		65.3	%REC	1	12/7/2009 2:46:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	0.7		ND	µg/Kg-dry	1	12/4/2009 12:24:00 PM	RWE
Ethylbenzene	NELAP	3.7	J	1.2	µg/Kg-dry	1	12/4/2009 12:24:00 PM	RWE
Toluene	NELAP	3.7		35.5	µg/Kg-dry	1	12/4/2009 12:24:00 PM	RWE
Xylenes, Total	NELAP	3.7		6.3	µg/Kg-dry	1	12/4/2009 12:24:00 PM	RWE
Surr: 1,2-Dichloroethane-d4		61-128		111.0	%REC	1	12/4/2009 12:24:00 PM	RWE
Surr: 4-Bromofluorobenzene		78.2-117		94.6	%REC	1	12/4/2009 12:24:00 PM	RWE
Surr: Dibromofluoromethane		66.6-130		99.2	%REC	1	12/4/2009 12:24:00 PM	RWE
Surr: Toluene-d8		80.1-122		110.5	%REC	1	12/4/2009 12:24:00 PM	RWE

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

DATES REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09120189-001A	IW-PT-207B (13-14)	12/2/2009	Solid	EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 10:17:00 PM
09120189-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 12:52:00 PM
09120189-002A	IW-PT-207B (18.5-19.5)			EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 12:57:00 PM
09120189-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 1:20:00 PM
09120189-003A	IW-PT-205B (12.5-13.5)			EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 10:52:00 PM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/8/2009 1:34:00 PM
09120189-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 1:48:00 PM
09120189-004A	IW-PT-205B (17-18)			EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 1:33:00 PM
09120189-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 2:16:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/7/2009 4:29:00 PM
09120189-005A	IW-PT-201B (11.5-12.5)			EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 2:10:00 PM
09120189-005D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 2:45:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

DATES REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09120189-006A	IW-PT-201B (18-19)	12/2/2009	Solid	EPA SW846 3550C, 5035A, ASTM D2974		12/4/2009 11:55:00 AM
				Standard Methods 18th Ed. 2540 G		12/4/2009 11:55:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	12/3/2009 5:01:18 PM	12/7/2009 2:46:00 PM
09120189-006D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS		12/4/2009 12:24:00 PM

ANALYTICAL QC SUMMARY REPORT

Key QC concepts:

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- LCS D** Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers

DF - Dilution Factor	B - Analyte detected in the associated Method Blank	C - Client requested RL below PQL	MI - Matrix interference
RL - Reporting Limit	J - Analyte detected below reporting limits	D - Diluted out of sample	DNI - Did not ignite
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits	IDPH - IL Dept. of Public Health	E - Value above quantitation range
Surr - Surrogate Standard added by lab	S - Spike Recovery outside accepted recovery limits	Q - QC criteria failed	H - Holding time exceeded
TNTC - Too numerous to count (> 200 CFU)	X - Value exceeds Maximum Contaminant Level	# - Unknown hydrocarbon	NELAP - IL ELAP and NELAP Accredited

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **M2540 G**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: LCS-R129924	SampType: LCS	Units: %	Prep Date:	RunNo: 129924							
Client ID: ZZZZZZ	Batch ID: R129924		Analysis Date: 12/4/2009	SeqNo: 2458886							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Solids	1.0	0.1	1.000	0	100	90	110				
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Sample ID: 09120189-002ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 129924							
Client ID: IW-PT-207B (18.5-19)	Batch ID: R129924		Analysis Date: 12/4/2009	SeqNo: 2458903							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Solids	88.7	0.1						88.78	0.0676	15	
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Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 129924							
Client ID: ZZZZZZ	Batch ID: R129924		Analysis Date: 12/4/2009	SeqNo: 2458910							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Total Solids	1.0	0.1	1.000	0	99.0	90	110				
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Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8260B**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: LCS-G091207-1	SampType: LCS	Units: µg/Kg	Prep Date: 12/7/2009	RunNo: 129962
Client ID: ZZZZZZ	Batch ID: 57162	SW5035	Analysis Date: 12/7/2009	SeqNo: 2459971

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.5	1.0	50.00	0	89.1	77.9	123				
Ethylbenzene	49.8	5.0	50.00	0	99.6	80.9	119				
Toluene	50.0	5.0	50.00	0	100.1	80.2	115				
Xylenes, Total	99.2	5.0	100.0	0	99.2	77.6	124				
Surr: 1,2-Dichloroethane-d4	53.4		50.00		106.8	61	128				
Surr: 4-Bromofluorobenzene	50.2		50.00		100.3	78.2	117				
Surr: Dibromofluoromethane	51.0		50.00		102.0	66.6	130				
Surr: Toluene-d8	52.5		50.00		104.9	80.1	122				

Sample ID: LCSD-G091207-1	SampType: LCSD	Units: µg/Kg	Prep Date: 12/7/2009	RunNo: 129962
Client ID: ZZZZZZ	Batch ID: 57162	SW5035	Analysis Date: 12/7/2009	SeqNo: 2459972

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.6	1.0	50.00	0	91.2	77.9	123	44.54	2.31	20	
Ethylbenzene	50.6	5.0	50.00	0	101.1	80.9	119	49.82	1.49	20	
Toluene	50.4	5.0	50.00	0	100.7	80.2	115	50.04	0.618	20	
Xylenes, Total	100	5.0	100.0	0	100.3	77.6	124	99.20	1.08	20	
Surr: 1,2-Dichloroethane-d4	53.2		50.00		106.5	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.2		50.00		100.3	78.2	117		0	0	
Surr: Dibromofluoromethane	51.0		50.00		101.9	66.6	130		0	0	
Surr: Toluene-d8	52.2		50.00		104.4	80.1	122		0	0	

Sample ID: MBLK-G091207-1	SampType: MBLK	Units: µg/Kg	Prep Date: 12/7/2009	RunNo: 129962
Client ID: ZZZZZZ	Batch ID: 57162	SW5035	Analysis Date: 12/7/2009	SeqNo: 2459973

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Ethylbenzene	ND	5.0									
Toluene	ND	5.0									
Xylenes, Total	ND	5.0									

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8260B**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: MBLK-G091207-1	SampType: MBLK	Units: µg/Kg	Prep Date: 12/7/2009	RunNo: 129962
Client ID: ZZZZZZ	Batch ID: 57162	SW5035	Analysis Date: 12/7/2009	SeqNo: 2459973

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	54.5		50.00		108.9	61	128				
Surr: 4-Bromofluorobenzene	49.6		50.00		99.2	78.2	117				
Surr: Dibromofluoromethane	50.1		50.00		100.2	66.6	130				
Surr: Toluene-d8	52.1		50.00		104.1	80.1	122				

Sample ID: LCS-A091204-1	SampType: LCS	Units: µg/Kg	Prep Date: 12/4/2009	RunNo: 129919
Client ID: ZZZZZZ	Batch ID: 57131	SW5035	Analysis Date: 12/4/2009	SeqNo: 2458813

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.8	1.0	50.00	0	91.5	77.9	123				
Toluene	50.8	5.0	50.00	0	101.6	80.2	115				
Ethylbenzene	50.2	5.0	50.00	0	100.5	80.9	119				
Xylenes, Total	96.5	5.0	100.0	0	96.5	77.6	124				
Surr: 1,2-Dichloroethane-d4	50.6		50.00		101.1	61	128				
Surr: 4-Bromofluorobenzene	51.1		50.00		102.2	78.2	117				
Surr: Dibromofluoromethane	51.5		50.00		103.0	66.6	130				
Surr: Toluene-d8	51.0		50.00		102.1	80.1	122				

Sample ID: LCSD-A091204-1	SampType: LCSD	Units: µg/Kg	Prep Date: 12/4/2009	RunNo: 129919
Client ID: ZZZZZZ	Batch ID: 57131	SW5035	Analysis Date: 12/4/2009	SeqNo: 2458814

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.9	1.0	50.00	0	87.9	77.9	123	45.76	4.08	20	
Toluene	49.4	5.0	50.00	0	98.7	80.2	115	50.82	2.94	20	
Ethylbenzene	48.9	5.0	50.00	0	97.8	80.9	119	50.25	2.76	20	
Xylenes, Total	94.5	5.0	100.0	0	94.5	77.6	124	96.52	2.14	20	
Surr: 1,2-Dichloroethane-d4	49.9		50.00		99.8	61	128		0	0	
Surr: 4-Bromofluorobenzene	50.2		50.00		100.5	78.2	117		0	0	
Surr: Dibromofluoromethane	50.9		50.00		101.7	66.6	130		0	0	
Surr: Toluene-d8	51.4		50.00		102.9	80.1	122		0	0	

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: SW8260B

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: MBLK-A091204-1	SampType: MBLK	Units: µg/Kg	Prep Date: 12/4/2009	RunNo: 129919							
Client ID: ZZZZZZ	Batch ID: 57131	SW5035	Analysis Date: 12/4/2009	SeqNo: 2458817							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	49.1		50.00		98.3	61	128				
Surr: 4-Bromofluorobenzene	50.7		50.00		101.5	78.2	117				
Surr: Dibromofluoromethane	51.0		50.00		102.0	66.6	130				
Surr: Toluene-d8	51.5		50.00		103.0	80.1	122				

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8270C**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: MB-57096	SampType: MBLK	Units: mg/Kg	Prep Date: 12/3/2009	RunNo: 129959
Client ID: ZZZZZZ	Batch ID: 57096	SW3550B	Analysis Date: 12/7/2009	SeqNo: 2459916

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.107		0.1670		64.1	17.5	123				
Surr: Nitrobenzene-d5	0.102		0.1670		61.3	35	105				
Surr: p-Terphenyl-d14	0.127		0.1670		76.0	53.6	122				

Sample ID: LCS-57096	SampType: LCS	Units: mg/Kg	Prep Date: 12/3/2009	RunNo: 129959
Client ID: ZZZZZZ	Batch ID: 57096	SW3550B	Analysis Date: 12/7/2009	SeqNo: 2459917

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.113	0.003	0.1670	0	67.4	56.3	115				
Acenaphthylene	0.151	0.003	0.1670	0	90.1	60.3	143				
Anthracene	0.103	0.003	0.1670	0	61.9	52.1	109				
Benzo(a)anthracene	0.108	0.003	0.1670	0	64.4	52.8	112				
Benzo(a)pyrene	0.119	0.003	0.1670	0	71.0	40.8	127				
Benzo(b)fluoranthene	0.136	0.003	0.1670	0	81.7	50.1	150				

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8270C**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: LCS-57096		SampType: LCS		Units: mg/Kg		Prep Date: 12/3/2009		RunNo: 129959			
Client ID: ZZZZZ		Batch ID: 57096		SW3550B		Analysis Date: 12/7/2009		SeqNo: 2459917			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	0.140	0.003	0.1670	0	84.0	52.8	145				
Benzo(k)fluoranthene	0.131	0.003	0.1670	0	78.5	52	153				
Chrysene	0.131	0.003	0.1670	0	78.6	60.8	128				
Dibenzo(a,h)anthracene	0.142	0.003	0.1670	0	84.9	54.9	150				
Fluoranthene	0.120	0.003	0.1670	0	71.8	58.7	125				
Fluorene	0.116	0.003	0.1670	0	69.5	57.8	125				
Indeno(1,2,3-cd)pyrene	0.141	0.003	0.1670	0	84.7	52	147				
Naphthalene	0.105	0.003	0.1670	0	62.8	54.8	113				
Phenanthrene	0.118	0.003	0.1670	0	70.6	60.4	121				
Pyrene	0.119	0.003	0.1670	0	71.5	57.9	129				
Surr: 2-Fluorobiphenyl	0.111		0.1670		66.5	35.3	113				
Surr: Nitrobenzene-d5	0.119		0.1670		71.5	33.9	108				
Surr: p-Terphenyl-d14	0.120		0.1670		71.9	58.4	122				

Sample ID: 09120189-006AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 12/3/2009		RunNo: 129959			
Client ID: IW-PT-201B (18-19)		Batch ID: 57096		SW3550B		Analysis Date: 12/7/2009		SeqNo: 2459925			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.132	0.004	0.1879	0.008454	65.9	36	135				
Acenaphthylene	0.189	0.004	0.1879	0.02606	86.6	17.2	167				
Anthracene	0.132	0.004	0.1879	0.02210	58.3	39.3	124				
Benzo(a)anthracene	0.132	0.004	0.1879	0.01910	60.3	10	183				
Benzo(a)pyrene	0.144	0.004	0.1879	0.01618	67.8	10	204				
Benzo(b)fluoranthene	0.154	0.004	0.1879	0.01859	71.9	10.6	178				
Benzo(g,h,i)perylene	0.152	0.004	0.1879	0.01021	75.3	10	168				
Benzo(k)fluoranthene	0.145	0.004	0.1879	0.006660	73.7	27.6	181				
Chrysene	0.163	0.004	0.1879	0.01954	76.2	10	176				
Dibenzo(a,h)anthracene	0.148	0.004	0.1879	0	78.9	12.2	156				
Fluoranthene	0.166	0.004	0.1879	0.05222	60.6	10	227				
Fluorene	0.140	0.004	0.1879	0.02188	62.6	35.2	148				

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8270C**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: 09120189-006AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 12/3/2009	RunNo: 129959
Client ID: IW-PT-201B (18-19)	Batch ID: 57096	SW3550B	Analysis Date: 12/7/2009	SeqNo: 2459925

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	0.155	0.004	0.1879	0.008746	77.7	10	164				
Naphthalene	0.173	0.004	0.1879	0.1088	34.4	14.7	128				
Phenanthrene	0.185	0.004	0.1879	0.07627	57.7	32.8	143				
Pyrene	0.156	0.004	0.1879	0.04289	60.3	10	180				
Surr: 2-Fluorobiphenyl	0.116		0.1879		61.9	10	131				
Surr: Nitrobenzene-d5	0.124		0.1879		65.9	10	132				
Surr: p-Terphenyl-d14	0.126		0.1879		67.3	30.6	131				

Sample ID: 09120189-006AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 12/3/2009	RunNo: 129959
Client ID: IW-PT-201B (18-19)	Batch ID: 57096	SW3550B	Analysis Date: 12/7/2009	SeqNo: 2459926

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.123	0.004	0.1842	0.008454	62.0	36	135	0.1323	7.63	49.7	
Acenaphthylene	0.178	0.004	0.1842	0.02606	82.3	17.2	167	0.1887	6.02	33.3	
Anthracene	0.131	0.004	0.1842	0.02210	58.9	39.3	124	0.1317	0.877	51.1	
Benzo(a)anthracene	0.125	0.004	0.1842	0.01910	57.4	10	183	0.1325	5.91	40.6	
Benzo(a)pyrene	0.137	0.004	0.1842	0.01618	65.4	10	204	0.1435	4.95	56.4	
Benzo(b)fluoranthene	0.139	0.004	0.1842	0.01859	65.2	10.6	178	0.1538	10.3	49.7	
Benzo(g,h,i)perylene	0.141	0.004	0.1842	0.01021	70.9	10	168	0.1517	7.50	36.5	
Benzo(k)fluoranthene	0.136	0.004	0.1842	0.006660	70.3	27.6	181	0.1452	6.52	42.6	
Chrysene	0.154	0.004	0.1842	0.01954	72.8	10	176	0.1627	5.74	45.1	
Dibenzo(a,h)anthracene	0.132	0.004	0.1842	0	71.6	12.2	156	0.1483	11.7	39.9	
Fluoranthene	0.172	0.004	0.1842	0.05222	64.8	10	227	0.1661	3.29	66.2	
Fluorene	0.136	0.004	0.1842	0.02188	62.0	35.2	148	0.1396	2.60	65.6	
Indeno(1,2,3-cd)pyrene	0.141	0.004	0.1842	0.008746	72.0	10	164	0.1548	9.08	36.5	
Naphthalene	0.164	0.004	0.1842	0.1088	29.9	14.7	128	0.1734	5.69	39.6	
Phenanthrene	0.193	0.004	0.1842	0.07627	63.5	32.8	143	0.1848	4.45	35.4	
Pyrene	0.159	0.004	0.1842	0.04289	63.0	10	180	0.1562	1.69	60.1	
Surr: 2-Fluorobiphenyl	0.106		0.1842		57.7	10	131		0	40	
Surr: Nitrobenzene-d5	0.116		0.1842		63.1	10	132		0	40	

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Test Number: **SW8270C**

Lab Order: 09120189

Report Date: 09-Dec-09

Sample ID: 09120189-006AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 12/3/2009	RunNo: 129959							
Client ID: IW-PT-201B (18-19)	Batch ID: 57096	SW3550B	Analysis Date: 12/7/2009	SeqNo: 2459926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl-d14	0.122		0.1842		66.3	30.6	131		0	40	

Client: PSC Industrial Outsourcing, LP

RECEIVING CHECK LIST

Project: A831-735002-012901-225/Ameren Champaign 6249080120

Lab Order: 09120189

Report Date: 09-Dec-09

Carrier: Sean Spinner

Received By: EAH

Completed by:

Marvin L. Darling II

Reviewed by:

Elizabeth A. Hurley

On:

03-Dec-09

Marvin L. Darling

On:

03-Dec-09

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 3.0
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.



Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230
(618) 281-7173 Phone
(800) 733-7173
(618) 281-5120 Fax

09/17/0189

COC Serial No. **B** 08902

Project Name: Ameren Champagne Project Mgr.: Pete Szrama
Project Number: 624-9908-0120 Cost Code: J0002

Sampler(s): L. Hoosier
Laboratory Name: Teklab
Location: Collinsville

Analyses by Method Name and Number
Total Number of Containers
Matrix
Soil
Water
Air
Wipes
Other *

Sample Number and (depth)	Date	Time	Soil	Water	Air	Wipes	Other *	Comments (Field PID)	Lab ID #'s
IN-PT-207B (13-14)	12/2	1145	X						09120189-09
IN-PT-207B (18.5-19.5)	12/2	1215	X					* SAMPLES	-002
IN-PT-205B (12.5-13.5)	12/2	1020	X					ARE	-003
IN-PT-205B (17-18)	12/2	1035	X						-004
IN-PT-201B (11.5-12.5)	12/2	1115	X					HOT *	-005
IN-PT-201B (18-19)	12/2	1125	X						-006

Laboratory Temperature upon Receipt
3.0°C
ICE

PHH (827D SWS)
BTEX (8260)
Teklab, Inc.
Columbus, IL

Samples Iced: Yes No

Preservatives (ONLY for Water Samples)

- Volatile Organics Hydrochloric acid (HCl)
- VOC Soil (5035) Sodium Bisulfate/Methanol
- TPH Hydrochloric acid and/or Sulfuric acid
- Metals Nitric acid (HNO₃)
- Cyanide Sodium hydroxide (NaOH)
- Other (Specify)

Lab Directives:

Requested TAT: Rush 5 Days STD Other _____

Fax and/or Mail Results to: Pete Szrama

Send Invoice to: _____

QC Deliverable Requested: Full QC & Limits CLP-LIKE EDD Other _____

Special Guidelines: _____

Reporting Limits: _____

* Special: _____

Shipping:

Carrier / Airbill No. _____

Relinquished by: Signature Shelie Hoosier Date 12/3/09 Time 0805

Signature Sue Szrama Date 12/3/09 Time 11:48 AM

Received by: Signature Sue Szrama Date 12/3/09 Time 8:05 AM

Signature Glyndis C. Thibault Date 12/3/09 Time 1148

April 20, 2009

Pete Sazama
PSC Industrial Outsourcing, LP
210 West Sand Bank Road
Columbia, IL 62236-0230
TEL: (618) 281-7173
FAX: (618) 281-5120



RE: A831-735002-012901-225/IP Champaign

WorkOrder: 09040446

Dear Pete Sazama:

TEKLAB, INC received 10 samples on 4/13/2009 3:55:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Heather A. White".

Heather A. White
Project Manager
(618)344-1004 ex 20

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

SAMPLE SUMMARY

Lab Sample ID	Client Sample ID	Fractions	Collection Date
09040446-001	IW-PT-201 (11.5-12.5)	4	4/6/2009 4:15:00 PM
09040446-002	IW-PT-201 (18-19)	4	4/6/2009 4:58:00 PM
09040446-003	IW-PT-207 (13-14 ft)	4	4/7/2009 4:05:00 PM
09040446-004	IW-PT-207 (18.5-19.5)	4	4/7/2009 4:55:00 PM
09040446-005	IW-PT-205 (12.5-13.5)	4	4/8/2009 12:35:00 PM
09040446-006	IW-PT-205 (17-18)	4	4/8/2009 12:45:00 PM
09040446-007	IW-PT-203 (12.5-13.5)	4	4/9/2009 9:20:00 AM
09040446-008	IW-PT-203 (19-20)	4	4/9/2009 9:30:00 AM
09040446-009	IW-PT-209 (12-13)	4	4/9/2009 3:15:00 PM
09040446-010	IW-PT-209 (19-20)	4	4/9/2009 3:30:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

LabOrder: 09040446

Report Date: 20-Apr-09

CASE NARRATIVE

Cooler Receipt Temp: 2.8 °C

State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

Q - QC criteria failed or noncompliant CCV

NELAP - IL ELAP and NELAP Accredited Field of Testing

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

- Unknown hydrocarbon

IDPH - IL Dept. of Public Health

C - Client requested RL below PQL

D - Diluted out of sample

E - Value above quantitation range

H - Holding time exceeded

MI - Matrix interference

DNI - Did not ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP

WorkOrder: 09040446

Lab ID: 09040446-001

Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ

Client Sample ID: IW-PT-201 (11.5-12.5)

Collection Date: 4/6/2009 4:15:00 PM

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	21.6	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	78.4	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.40		4.46	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Barium	NELAP	0.48		73.2	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Cadmium	NELAP	0.19		0.26	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Chromium	NELAP	0.96		21.6	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Lead	NELAP	3.85		11.4	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
Silver	NELAP	0.96		< 0.96	mg/Kg-dry	1	4/15/2009 2:49:15 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.634		10.3	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Acenaphthylene	NELAP	0.634		52.6	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Anthracene	NELAP	0.634		40.0	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Benzo(a)anthracene	NELAP	0.634		27.7	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Benzo(a)pyrene	NELAP	0.634		25.6	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.634		27.7	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.634		12.6	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.634		10.4	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Chrysene	NELAP	0.634		26.1	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.634		3.19	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Fluoranthene	NELAP	0.634		88.4	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Fluorene	NELAP	0.634		41.8	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.634		11.3	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Naphthalene	NELAP	0.634		242	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Phenanthrene	NELAP	0.634		144	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Pyrene	NELAP	0.634		73.9	mg/Kg-dry	50	4/15/2009 11:19:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		69.9	%REC	50	4/15/2009 11:19:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		59.9	%REC	50	4/15/2009 11:19:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.8	%REC	50	4/15/2009 11:19:00 AM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	968		90500	µg/Kg-dry	500	4/14/2009 1:18:00 PM	JSA
Ethylbenzene	NELAP	4840		11100	µg/Kg-dry	500	4/14/2009 1:18:00 PM	JSA
Toluene	NELAP	4840		128000	µg/Kg-dry	500	4/14/2009 1:18:00 PM	JSA
Xylenes, Total	NELAP	4840		145000	µg/Kg-dry	500	4/14/2009 1:18:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		92.8	%REC	500	4/14/2009 1:18:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		103.1	%REC	500	4/14/2009 1:18:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-001
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-201 (11.5-12.5)
Collection Date: 4/6/2009 4:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		97.9	%REC	500	4/14/2009 1:18:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.3	%REC	500	4/14/2009 1:18:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.012		0.038	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 09040446

Client Sample ID: IW-PT-201 (18-19)

Lab ID: 09040446-002

Collection Date: 4/6/2009 4:58:00 PM

Report Date: 20-Apr-09

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	12.4	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	87.6	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.45	J	1.8	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Barium	NELAP	0.49		19.1	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Chromium	NELAP	0.98		17.7	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Lead	NELAP	3.92		10.2	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Selenium	NELAP	3.92	J	3.1	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
Silver	NELAP	0.98		< 0.98	mg/Kg-dry	1	4/15/2009 2:55:56 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Acenaphthylene	NELAP	0.004	R	ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004	R	ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004	R	ND	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Naphthalene	NELAP	0.004	SR	0.098	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Phenanthrene	NELAP	0.004	R	0.005	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	4/15/2009 2:21:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		34.1	%REC	1	4/15/2009 2:21:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		43.7	%REC	1	4/15/2009 2:21:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		55.7	%REC	1	4/15/2009 2:21:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	159		13400	µg/Kg-dry	100	4/14/2009 6:34:00 PM	JSA
Ethylbenzene	NELAP	99.1		1100	µg/Kg-dry	12.5	4/14/2009 1:44:00 PM	JSA
Toluene	NELAP	793		7520	µg/Kg-dry	100	4/14/2009 6:34:00 PM	JSA
Xylenes, Total	NELAP	99.1		3380	µg/Kg-dry	12.5	4/14/2009 1:44:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		87.5	%REC	12.5	4/14/2009 1:44:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		107.9	%REC	12.5	4/14/2009 1:44:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP**WorkOrder:** 09040446**Lab ID:** 09040446-002**Report Date:** 20-Apr-09**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** IW-PT-201 (18-19)**Collection Date:** 4/6/2009 4:58:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		91.9	%REC	12.5	4/14/2009 1:44:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.9	%REC	12.5	4/14/2009 1:44:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011	J	0.009	mg/Kg-dry	1	4/15/2009	JMW

Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

RPD was outside of QC limit due to sample composition.

Matrix spike did not recover within control limits because of sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-003
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-207 (13-14 ft)
Collection Date: 4/7/2009 4:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	11.5	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	88.5	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.40		5.44	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Barium	NELAP	0.48		52.5	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Cadmium	NELAP	0.19	J	0.11	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Chromium	NELAP	0.96		31.9	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Lead	NELAP	3.85		9.52	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Selenium	NELAP	3.85	J	2.9	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
Silver	NELAP	0.96		< 0.96	mg/Kg-dry	1	4/15/2009 3:02:38 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	1.11		45.9	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Acenaphthylene	NELAP	1.11		243	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Anthracene	NELAP	1.11		167	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Benzo(a)anthracene	NELAP	1.11		127	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Benzo(a)pyrene	NELAP	1.11		116	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Benzo(b)fluoranthene	NELAP	1.11		126	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	1.11		54.5	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Benzo(k)fluoranthene	NELAP	1.11		47.4	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Chrysene	NELAP	1.11		121	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	1.11		15.1	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Fluoranthene	NELAP	1.11		362	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Fluorene	NELAP	1.11		199	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	1.11		51.7	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Naphthalene	NELAP	11.1		1230	mg/Kg-dry	1000	4/15/2009 7:49:00 PM	MAV
Phenanthrene	NELAP	11.1		504	mg/Kg-dry	1000	4/15/2009 7:49:00 PM	MAV
Pyrene	NELAP	1.11		282	mg/Kg-dry	100	4/15/2009 11:56:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		59.9	%REC	100	4/15/2009 11:56:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		119.8	%REC	100	4/15/2009 11:56:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		119.8	%REC	100	4/15/2009 11:56:00 AM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	837		102000	µg/Kg-dry	500	4/14/2009 2:10:00 PM	JSA
Ethylbenzene	NELAP	4180		18800	µg/Kg-dry	500	4/14/2009 2:10:00 PM	JSA
Toluene	NELAP	8370		167000	µg/Kg-dry	1000	4/14/2009 7:01:00 PM	JSA
Xylenes, Total	NELAP	4180		236000	µg/Kg-dry	500	4/14/2009 2:10:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.4	%REC	500	4/14/2009 2:10:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		103.9	%REC	500	4/14/2009 2:10:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP**WorkOrder:** 09040446**Lab ID:** 09040446-003**Report Date:** 20-Apr-09**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** IW-PT-207 (13-14 ft)**Collection Date:** 4/7/2009 4:05:00 PM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		97.3	%REC	500	4/14/2009 2:10:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.7	%REC	500	4/14/2009 2:10:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011		0.020	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-004
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-207 (18.5-19.5)
Collection Date: 4/7/2009 4:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	10.7	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	89.3	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.50	J	1.6	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Barium	NELAP	0.50		20.5	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Cadmium	NELAP	0.20	J	0.12	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Chromium	NELAP	1.00		18.4	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Lead	NELAP	4.00		12.2	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Selenium	NELAP	4.00	J	2.9	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	4/15/2009 3:09:20 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		0.018	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.033	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Anthracene	NELAP	0.004		0.039	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.042	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.035	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.037	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.017	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Chrysene	NELAP	0.004		0.041	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Fluoranthene	NELAP	0.004		0.103	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Fluorene	NELAP	0.004		0.034	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.016	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Naphthalene	NELAP	0.004		0.456	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Phenanthrene	NELAP	0.004		0.134	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Pyrene	NELAP	0.004		0.088	mg/Kg-dry	1	4/15/2009 3:35:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.1	%REC	1	4/15/2009 3:35:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		57.7	%REC	1	4/15/2009 3:35:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		77.6	%REC	1	4/15/2009 3:35:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	77.3		10900	µg/Kg-dry	50	4/14/2009 7:27:00 PM	JSA
Ethylbenzene	NELAP	96.7		560	µg/Kg-dry	12.5	4/14/2009 2:36:00 PM	JSA
Toluene	NELAP	387		7370	µg/Kg-dry	50	4/14/2009 7:27:00 PM	JSA
Xylenes, Total	NELAP	96.7		4430	µg/Kg-dry	12.5	4/14/2009 2:36:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		86.7	%REC	12.5	4/14/2009 2:36:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		108.7	%REC	12.5	4/14/2009 2:36:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-004
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-207 (18.5-19.5)
Collection Date: 4/7/2009 4:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		92.8	%REC	12.5	4/14/2009 2:36:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.4	%REC	12.5	4/14/2009 2:36:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011	J	0.010	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 09040446

Client Sample ID: IW-PT-205 (12.5-13.5)

Lab ID: 09040446-005

Collection Date: 4/8/2009 12:35:00 PM

Report Date: 20-Apr-09

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	12.7	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	87.3	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.45		10.2	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Barium	NELAP	0.49		83.7	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Cadmium	NELAP	0.20		0.29	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Chromium	NELAP	0.98		17.6	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Lead	NELAP	3.92		16.6	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Selenium	NELAP	3.92		6.31	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
Silver	NELAP	0.98		< 0.98	mg/Kg-dry	1	4/15/2009 3:16:02 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	1.96		103	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Acenaphthylene	NELAP	1.96		460	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Anthracene	NELAP	1.96		337	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Benzo(a)anthracene	NELAP	1.96		305	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Benzo(a)pyrene	NELAP	1.96		294	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Benzo(b)fluoranthene	NELAP	1.96		330	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	1.96		152	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Benzo(k)fluoranthene	NELAP	1.96		127	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Chrysene	NELAP	1.96		255	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	1.96		39.5	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Fluoranthene	NELAP	1.96		905	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Fluorene	NELAP	1.96		394	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	1.96		143	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Naphthalene	NELAP	19.6		2250	mg/Kg-dry	1000	4/15/2009 8:24:00 PM	MAV
Phenanthrene	NELAP	19.6		1160	mg/Kg-dry	1000	4/15/2009 8:24:00 PM	MAV
Pyrene	NELAP	1.96		703	mg/Kg-dry	100	4/15/2009 12:32:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		119.8	%REC	100	4/15/2009 12:32:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.9	%REC	100	4/15/2009 12:32:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131	S	139.7	%REC	100	4/15/2009 12:32:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	870		22500	µg/Kg-dry	500	4/14/2009 3:03:00 PM	JSA
Ethylbenzene	NELAP	4350	J	1100	µg/Kg-dry	500	4/14/2009 3:03:00 PM	JSA
Toluene	NELAP	4350		15800	µg/Kg-dry	500	4/14/2009 3:03:00 PM	JSA
Xylenes, Total	NELAP	4350		16100	µg/Kg-dry	500	4/14/2009 3:03:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		92.7	%REC	500	4/14/2009 3:03:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		103.9	%REC	500	4/14/2009 3:03:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-005
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-205 (12.5-13.5)
Collection Date: 4/8/2009 12:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		98.3	%REC	500	4/14/2009 3:03:00 PM	JSA
Surr: Toluene-d8		80.1-122		98.9	%REC	500	4/14/2009 3:03:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011		0.016	mg/Kg-dry	1	4/15/2009	JMW

Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Surrogate recovery was outside QC limits due to sample dilution.

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-006
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-205 (17-18)
Collection Date: 4/8/2009 12:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1	H	11.6	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1	H	88.4	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.50	J	2.4	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Barium	NELAP	0.50		18.5	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Chromium	NELAP	1.00		17.3	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Lead	NELAP	4.00		9.92	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Selenium	NELAP	4.00	J	2.4	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	4/15/2009 3:48:42 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.055	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Chrysene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Fluorene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Naphthalene	NELAP	0.019		1.77	mg/Kg-dry	5	4/16/2009 1:41:00 PM	DMH
Phenanthrene	NELAP	0.004		0.010	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	4/15/2009 4:11:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		57.7	%REC	1	4/15/2009 4:11:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		61.7	%REC	1	4/15/2009 4:11:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		81.8	%REC	1	4/15/2009 4:11:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	19.7		1540	µg/Kg-dry	12.5	4/14/2009 3:29:00 PM	JSA
Ethylbenzene	NELAP	98.4		202	µg/Kg-dry	12.5	4/14/2009 3:29:00 PM	JSA
Toluene	NELAP	98.4		682	µg/Kg-dry	12.5	4/14/2009 3:29:00 PM	JSA
Xylenes, Total	NELAP	98.4		973	µg/Kg-dry	12.5	4/14/2009 3:29:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		89.6	%REC	12.5	4/14/2009 3:29:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		106.2	%REC	12.5	4/14/2009 3:29:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP**Client Project:** A831-735002-012901-225/IP Champ**WorkOrder:** 09040446**Client Sample ID:** IW-PT-205 (17-18)**Lab ID:** 09040446-006**Collection Date:** 4/8/2009 12:45:00 PM**Report Date:** 20-Apr-09**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		89.8	%REC	12.5	4/14/2009 3:29:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.2	%REC	12.5	4/14/2009 3:29:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011	J	0.009	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-007
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-203 (12.5-13.5)
Collection Date: 4/9/2009 9:20:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1		17.4	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		82.6	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.45		5.74	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Barium	NELAP	0.49		27.6	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Chromium	NELAP	0.98		10.4	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Lead	NELAP	3.92		6.88	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Selenium	NELAP	3.92	J	3.8	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
Silver	NELAP	0.98		< 0.98	mg/Kg-dry	1	4/15/2009 3:55:25 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.574		28.6	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Acenaphthylene	NELAP	0.574		38.4	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Anthracene	NELAP	0.574		31.4	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Benzo(a)anthracene	NELAP	0.574		19.9	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Benzo(a)pyrene	NELAP	0.574		17.9	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.574		15.0	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.574		6.63	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.574		5.43	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Chrysene	NELAP	0.574		20.1	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.574		1.97	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Fluoranthene	NELAP	0.574		45.8	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Fluorene	NELAP	0.574		43.5	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.574		5.85	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Naphthalene	NELAP	0.574		185	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Phenanthrene	NELAP	0.574		109	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Pyrene	NELAP	0.574		55.5	mg/Kg-dry	50	4/15/2009 1:09:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		79.8	%REC	50	4/15/2009 1:09:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.9	%REC	50	4/15/2009 1:09:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	50	4/15/2009 1:09:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	962		46100	µg/Kg-dry	500	4/14/2009 7:53:00 PM	JSA
Ethylbenzene	NELAP	4810		89000	µg/Kg-dry	500	4/14/2009 7:53:00 PM	JSA
Toluene	NELAP	4810		85500	µg/Kg-dry	500	4/14/2009 7:53:00 PM	JSA
Xylenes, Total	NELAP	4810		114000	µg/Kg-dry	500	4/14/2009 7:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		93.4	%REC	50	4/14/2009 12:51:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		102.3	%REC	50	4/14/2009 12:51:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP**WorkOrder:** 09040446**Lab ID:** 09040446-007**Report Date:** 20-Apr-09**Client Project:** A831-735002-012901-225/IP Champ**Client Sample ID:** IW-PT-203 (12.5-13.5)**Collection Date:** 4/9/2009 9:20:00 AM**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		96.9	%REC	50	4/14/2009 12:51:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.7	%REC	50	4/14/2009 12:51:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011		0.019	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 09040446

Client Sample ID: IW-PT-203 (19-20)

Lab ID: 09040446-008

Collection Date: 4/9/2009 9:30:00 AM

Report Date: 20-Apr-09

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1		10.8	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		89.2	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.40		< 2.40	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Barium	NELAP	0.48		17.0	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Cadmium	NELAP	0.19	J	0.11	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Chromium	NELAP	0.96		17.2	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Lead	NELAP	3.85		10.3	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Selenium	NELAP	3.85	J	2.0	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
Silver	NELAP	0.96		< 0.96	mg/Kg-dry	1	4/15/2009 4:02:09 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.007	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.006	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Chrysene	NELAP	0.004		0.007	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Fluorene	NELAP	0.004		0.007	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Naphthalene	NELAP	0.004		0.079	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Phenanthrene	NELAP	0.004		0.020	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Pyrene	NELAP	0.004		0.015	mg/Kg-dry	1	4/15/2009 4:48:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		42.1	%REC	1	4/15/2009 4:48:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.1	%REC	1	4/15/2009 4:48:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		73.1	%REC	1	4/15/2009 4:48:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	177		13700	µg/Kg-dry	100	4/14/2009 8:20:00 PM	JSA
Ethylbenzene	NELAP	111		197	µg/Kg-dry	12.5	4/14/2009 3:55:00 PM	JSA
Toluene	NELAP	887		8300	µg/Kg-dry	100	4/14/2009 8:20:00 PM	JSA
Xylenes, Total	NELAP	111		1810	µg/Kg-dry	12.5	4/14/2009 3:55:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		86.3	%REC	12.5	4/14/2009 3:55:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		107.9	%REC	12.5	4/14/2009 3:55:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-008
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-203 (19-20)
Collection Date: 4/9/2009 9:30:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		89.7	%REC	12.5	4/14/2009 3:55:00 PM	JSA
Surr: Toluene-d8		80.1-122		99.5	%REC	12.5	4/14/2009 3:55:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011	J	0.010	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-009
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-209 (12-13)
Collection Date: 4/9/2009 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1		20.9	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		79.1	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.50		5.75	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Barium	NELAP	0.50		118	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Chromium	NELAP	1.00		21.3	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Lead	NELAP	4.00		19.4	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Selenium	NELAP	4.00	J	2.4	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	4/15/2009 4:22:11 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	1.08		30.9	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Acenaphthylene	NELAP	1.08		160	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Anthracene	NELAP	1.08		114	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Benzo(a)anthracene	NELAP	1.08		79.9	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Benzo(a)pyrene	NELAP	1.08		72.4	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Benzo(b)fluoranthene	NELAP	1.08		80.3	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	1.08		32.0	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Benzo(k)fluoranthene	NELAP	1.08		29.8	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Chrysene	NELAP	1.08		78.2	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	1.08		9.54	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Fluoranthene	NELAP	1.08		222	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Fluorene	NELAP	1.08		139	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	1.08		31.8	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Naphthalene	NELAP	5.41		660	mg/Kg-dry	250	4/16/2009 2:18:00 PM	DMH
Phenanthrene	NELAP	1.08		374	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Pyrene	NELAP	1.08		177	mg/Kg-dry	50	4/15/2009 1:45:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		59.9	%REC	50	4/15/2009 1:45:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.9	%REC	50	4/15/2009 1:45:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		79.8	%REC	50	4/15/2009 1:45:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	1200		219000	µg/Kg-dry	500	4/14/2009 4:22:00 PM	JSA
Ethylbenzene	NELAP	6000		17800	µg/Kg-dry	500	4/14/2009 4:22:00 PM	JSA
Toluene	NELAP	6000		240000	µg/Kg-dry	500	4/14/2009 4:22:00 PM	JSA
Xylenes, Total	NELAP	6000		244000	µg/Kg-dry	500	4/14/2009 4:22:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		91.3	%REC	500	4/14/2009 4:22:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		102.7	%REC	500	4/14/2009 4:22:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-009
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-209 (12-13)
Collection Date: 4/9/2009 3:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		99.7	%REC	500	4/14/2009 4:22:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.1	%REC	500	4/14/2009 4:22:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.012		0.035	mg/Kg-dry	1	4/15/2009	JMW

[Sample Narrative](#)

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

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LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP

Client Project: A831-735002-012901-225/IP Champ

WorkOrder: 09040446

Client Sample ID: IW-PT-209 (19-20)

Lab ID: 09040446-010

Collection Date: 4/9/2009 3:30:00 PM

Report Date: 20-Apr-09

Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>ASTM D2974</u>								
Percent Moisture		0.1		10.1	%	1	4/15/2009 6:00:00 PM	MAB
<u>STANDARD METHODS 18TH ED. 2540 G</u>								
Total Solids		0.1		89.9	%	1	4/15/2009 6:00:00 PM	MAB
<u>SW-846 3050B, 6010B, METALS BY ICP</u>								
Arsenic	NELAP	2.50		< 2.50	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Barium	NELAP	0.50		20.2	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Chromium	NELAP	1.00		18.2	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Lead	NELAP	4.00		10.9	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	4/15/2009 4:28:44 AM	LAL
<u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.004	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Chrysene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Fluorene	NELAP	0.004		0.005	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Naphthalene	NELAP	0.004		0.022	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Phenanthrene	NELAP	0.004		0.018	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	4/15/2009 5:24:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		48.9	%REC	1	4/15/2009 5:24:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		44.7	%REC	1	4/15/2009 5:24:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.7	%REC	1	4/15/2009 5:24:00 PM	MAV
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Benzene	NELAP	161		13600	µg/Kg-dry	100	4/14/2009 8:46:00 PM	JSA
Ethylbenzene	NELAP	101		ND	µg/Kg-dry	12.5	4/14/2009 4:48:00 PM	JSA
Toluene	NELAP	101		806	µg/Kg-dry	12.5	4/14/2009 4:48:00 PM	JSA
Xylenes, Total	NELAP	101	J	23	µg/Kg-dry	12.5	4/14/2009 4:48:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		84.6	%REC	12.5	4/14/2009 4:48:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		107.0	%REC	12.5	4/14/2009 4:48:00 PM	JSA

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: PSC Industrial Outsourcing, LP
WorkOrder: 09040446
Lab ID: 09040446-010
Report Date: 20-Apr-09

Client Project: A831-735002-012901-225/IP Champ
Client Sample ID: IW-PT-209 (19-20)
Collection Date: 4/9/2009 3:30:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<u>SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</u>								
Surr: Dibromofluoromethane		66.6-130		89.4	%REC	12.5	4/14/2009 4:48:00 PM	JSA
Surr: Toluene-d8		80.1-122		100.7	%REC	12.5	4/14/2009 4:48:00 PM	JSA
<u>SW-846 7471A</u>								
Mercury	NELAP	0.011	J	0.009	mg/Kg-dry	1	4/15/2009	JMW

Sample Narrative

SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP
Project: A831-735002-012901-225/IP Champaign
Lab Order: 09040446
Report Date: 20-Apr-09

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09040446-001A	IW-PT-201 (11.5-12.5)	4/6/2009	Solid	ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 2:49:15 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 11:19:00 AM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-001D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 1:18:00 PM
09040446-002A	IW-PT-201 (18-19)			ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 2:55:56 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 2:21:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-002D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 1:44:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 6:34:00 PM
09040446-003A	IW-PT-207 (13-14 ft)	4/7/2009		ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 3:02:38 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 11:56:00 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 7:49:00 PM
09040446-003D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 2:10:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 7:01:00 PM
09040446-004A	IW-PT-207 (18.5-19.5)			ASTM D2974		4/15/2009 6:00:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP
Project: A831-735002-012901-225/IP Champaign
Lab Order: 09040446
Report Date: 20-Apr-09

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09040446-004A	IW-PT-207 (18.5-19.5)	4/7/2009	Solid	Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 3:09:20 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 3:35:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-004D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 2:36:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 7:27:00 PM
09040446-005A	IW-PT-205 (12.5-13.5)	4/8/2009		ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 3:16:02 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 12:32:00 PM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 8:24:00 PM
09040446-005D				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 3:03:00 PM
09040446-006A	IW-PT-205 (17-18)			ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 3:48:42 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 4:11:00 PM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/16/2009 1:41:00 PM
09040446-006D				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 3:29:00 PM
09040446-007A	IW-PT-203 (12.5-13.5)	4/9/2009		ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP
Project: A831-735002-012901-225/IP Champaign
Lab Order: 09040446
Report Date: 20-Apr-09

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09040446-007A	IW-PT-203 (12.5-13.5)	4/9/2009	Solid	SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 3:55:25 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 1:09:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-007D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 12:51:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 7:53:00 PM
09040446-008A	IW-PT-203 (19-20)			ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 4:02:09 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 4:48:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-008D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 3:55:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 8:20:00 PM
09040446-009A	IW-PT-209 (12-13)			ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM
				SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 4:22:11 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 1:45:00 PM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 9:00:00 PM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/16/2009 2:18:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-009D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 4:22:00 PM
09040446-010A	IW-PT-209 (19-20)			ASTM D2974		4/15/2009 6:00:00 PM
				Standard Methods 18th Ed. 2540 G		4/15/2009 6:00:00 PM

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP
Project: A831-735002-012901-225/IP Champaign
Lab Order: 09040446
Report Date: 20-Apr-09

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Prep Date/Time	Analysis Date/Time
09040446-010A	IW-PT-209 (19-20)	4/9/2009	Solid	SW-846 3050B, 6010B, Metals by ICP	4/14/2009 9:14:08 AM	4/15/2009 4:28:44 AM
				SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS	4/14/2009 5:06:28 PM	4/15/2009 5:24:00 PM
				SW-846 7471A	4/14/2009 3:00:00 PM	4/15/2009
09040446-010D				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 4:48:00 PM
				SW-846 5035, 8260B, Volatile Organic Compounds by GC/MS	4/14/2009 9:53:14 AM	4/14/2009 8:46:00 PM

ANALYTICAL QC SUMMARY REPORT

Key QC concepts:

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers			
DF - Dilution Factor	B - Analyte detected in the associated Method Blank	C - Client requested RL below PQL	MI - Matrix interference
RL - Reporting Limit	J - Analyte detected below reporting limits	D - Diluted out of sample	DNI - Did not ignite
ND - Not Detected at the Reporting Limit	R - RPD outside accepted recovery limits	IDPH - IL Dept. of Public Health	E - Value above quantitation range
Surr - Surrogate Standard added by lab	S - Spike Recovery outside accepted recovery limits	Q - QC criteria failed	H - Holding time exceeded
TNTC - Too numerous to count (> 200 CFU)	X - Value exceeds Maximum Contaminant Level	# - Unknown hydrocarbon	NELAP - IL ELAP and NELAP Accredited

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: I_TS_M_MT

Sample ID: LCS-R121285	SampType: LCS	Units: %	Prep Date:	RunNo: 121285							
Client ID: ZZZZZZ	Batch ID: R121285		Analysis Date: 4/15/2009	SeqNo: 2252739							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	100	90	110				

Sample ID: LCSQC	SampType: LCSQC	Units: %	Prep Date:	RunNo: 121285							
Client ID: ZZZZZZ	Batch ID: R121285		Analysis Date: 4/15/2009	SeqNo: 2252740							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	99.0	90	110				

Sample ID: 09040446-001ADUP	SampType: DUP	Units: %	Prep Date:	RunNo: 121285							
Client ID: IW-PT-201 (11.5-12.5)	Batch ID: R121285		Analysis Date: 4/15/2009	SeqNo: 2252742							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	78.0	0.1						78.41	0.537	15	H

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign

TestCode: M_HG_SOLID

Lab Order: 09040446

Report Date: 20-Apr-09

Sample ID: MB-52275	SampType: MBLK	Units: mg/Kg	Prep Date: 4/14/2009	RunNo: 121225							
Client ID: ZZZZZZ	Batch ID: 52275	SOP 3063	Analysis Date: 4/15/2009	SeqNo: 2250915							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	< 0.010	0.010	0.01000	0	0	-100	100				
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Sample ID: LCS-52275	SampType: LCS	Units: mg/Kg	Prep Date: 4/14/2009	RunNo: 121225							
Client ID: ZZZZZZ	Batch ID: 52275	SOP 3063	Analysis Date: 4/15/2009	SeqNo: 2250916							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.252	0.010	0.2500	0	100.6	85	115				
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Sample ID: 09040446-005AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121225							
Client ID: IW-PT-205 (12.5-13.5)	Batch ID: 52275	SOP 3063	Analysis Date: 4/15/2009	SeqNo: 2250926							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.301	0.011	0.2793	0.01564	102.2	75	125				
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Sample ID: 09040446-005AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121225							
Client ID: IW-PT-205 (12.5-13.5)	Batch ID: 52275	SOP 3063	Analysis Date: 4/15/2009	SeqNo: 2250927							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.300	0.011	0.2793	0.01564	101.8	75	125	0.3010	0.372	15	
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Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign

TestCode: M_SOLIDS_ICP

Lab Order: 09040446

Report Date: 20-Apr-09

Sample ID: MB-52257	SampType: MBLK	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: ZZZZZZ	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249716							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Barium	< 0.50	0.50	0.5000	0	0	-100	100				
Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				
Selenium	< 4.00	4.00	4.000	0	0	-100	100				
Silver	< 0.55	0.55	1.000	0	0	-100	100				

Sample ID: LCS-52257	SampType: LCS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: ZZZZZZ	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249717							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	191	2.50	200.0	0	95.4	85	115				
Barium	197	0.50	200.0	0	98.4	85	115				
Cadmium	4.86	0.20	5.000	0	97.2	85	115				
Chromium	19.4	1.00	20.00	0	97.2	85	115				
Lead	49.3	4.00	50.00	0	98.6	85	115				
Selenium	193	4.00	200.0	0	96.7	85	115				
Silver	4.76	0.55	5.000	0	95.2	85	115				

Sample ID: 09040446-005AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: IW-PT-205 (12.5-13.5)	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	181	2.45	196.1	10.23	87.2	75	125				
Barium	242	0.49	196.1	83.66	80.8	75	125				
Cadmium	4.37	0.20	4.902	0.2941	83.2	75	125				
Chromium	35.3	0.98	19.61	17.65	90.3	75	125				
Lead	57.8	3.92	49.02	16.58	84.1	75	125				
Selenium	178	3.92	196.1	6.314	87.7	75	125				

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Sample ID: 09040446-005AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: IW-PT-205 (12.5-13.5)	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249725							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	4.40	0.54	4.902	0	89.8	75	125				
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Sample ID: 09040446-005AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: IW-PT-205 (12.5-13.5)	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249728							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	182	2.45	196.1	10.23	87.5	75	125	181.3	0.324	20	
Barium	240	0.49	196.1	83.66	79.9	75	125	242.1	0.732	20	
Cadmium	4.35	0.20	4.902	0.2941	82.8	75	125	4.373	0.449	20	
Chromium	35.0	0.98	19.61	17.65	88.8	75	125	35.34	0.836	20	
Lead	56.4	3.92	49.02	16.58	81.2	75	125	57.82	2.52	20	
Selenium	177	3.92	196.1	6.314	87.2	75	125	178.2	0.552	20	
Silver	4.68	0.54	4.902	0	95.4	75	125	4.402	6.05	20	

Sample ID: 09040446-008AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: IW-PT-203 (19-20)M	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249732							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	171	2.40	192.3	0	88.9	75	125				
Barium	182	0.48	192.3	16.96	85.8	75	125				
Cadmium	4.17	0.19	4.808	0.1058	84.6	75	125				
Chromium	35.3	0.96	19.23	17.20	94.0	75	125				
Lead	51.2	3.85	48.08	10.31	85.0	75	125				
Selenium	176	3.85	192.3	2.029	90.6	75	125				
Silver	4.64	0.53	4.808	0	96.6	75	125				

Sample ID: 09040446-008AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121174							
Client ID: IW-PT-203 (19-20)M	Batch ID: 52257	SOP 3032	Analysis Date: 4/15/2009	SeqNo: 2249733							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: M_SOLIDS_ICP

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	169	2.40	192.3	0	88.0	75	125	171.0	1.02	20	
Barium	179	0.48	192.3	16.96	84.3	75	125	182.0	1.65	20	
Cadmium	4.05	0.19	4.808	0.1058	82.0	75	125	4.173	3.04	20	
Chromium	33.1	0.96	19.23	17.20	82.6	75	125	35.28	6.44	20	
Lead	50.2	3.85	48.08	10.31	83.0	75	125	51.16	1.86	20	
Selenium	173	3.85	192.3	2.029	89.0	75	125	176.3	1.82	20	
Silver	4.28	0.53	4.808	0	89.0	75	125	4.644	8.19	20	

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign

TestCode: SV_8270S_S_SIMS

Lab Order: 09040446

Report Date: 20-Apr-09

Sample ID: MB-52284	SampType: MBLK	Units: mg/Kg	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: ZZZZZZ	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2250530							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.100		0.1670		60.1	17.5	123				
Surr: Nitrobenzene-d5	0.103		0.1670		61.7	35	105				
Surr: p-Terphenyl-d14	0.117		0.1670		70.1	53.6	122				

Sample ID: LCS-52284	SampType: LCS	Units: mg/Kg	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: ZZZZZZ	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2251303							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.102	0.003	0.1670	0	60.9	56.3	115				
Acenaphthylene	0.107	0.003	0.1670	0	64.1	60.3	143				
Anthracene	0.100	0.003	0.1670	0	60.1	52.1	109				
Benzo(a)anthracene	0.106	0.003	0.1670	0	63.3	52.8	112				
Benzo(a)pyrene	0.107	0.003	0.1670	0	63.9	40.8	127				
Benzo(b)fluoranthene	0.113	0.003	0.1670	0	67.7	50.1	150				
Benzo(g,h,i)perylene	0.096	0.003	0.1670	0	57.3	52.8	145				

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: LCS-52284	SampType: LCS	Units: mg/Kg	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: ZZZZZZ	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2251303							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.118	0.003	0.1670	0	70.4	52	153				
Chrysene	0.119	0.003	0.1670	0	71.0	60.8	128				
Dibenzo(a,h)anthracene	0.107	0.003	0.1670	0	63.8	54.9	150				
Fluoranthene	0.117	0.003	0.1670	0	70.0	58.7	125				
Fluorene	0.105	0.003	0.1670	0	63.1	57.8	125				
Indeno(1,2,3-cd)pyrene	0.102	0.003	0.1670	0	61.1	52	147				
Naphthalene	0.096	0.003	0.1670	0	57.2	54.8	113				
Phenanthrene	0.107	0.003	0.1670	0	63.8	60.4	121				
Pyrene	0.116	0.003	0.1670	0	69.3	57.9	129				
Surr: 2-Fluorobiphenyl	0.098		0.1670		58.7	35.3	113				
Surr: Nitrobenzene-d5	0.097		0.1670		58.3	33.9	108				
Surr: p-Terphenyl-d14	0.117		0.1670		70.1	58.4	122				

Sample ID: 09040446-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: IW-PT-201 (18-19)M	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2251764							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.084	0.004	0.1874	0	44.9	36	135				
Acenaphthylene	0.089	0.004	0.1874	0	47.4	17.2	167				
Anthracene	0.091	0.004	0.1874	0	48.6	39.3	124				
Benzo(a)anthracene	0.096	0.004	0.1874	0	51.4	10	183				
Benzo(a)pyrene	0.098	0.004	0.1874	0	52.2	10	204				
Benzo(b)fluoranthene	0.100	0.004	0.1874	0	53.4	10.6	178				
Benzo(g,h,i)perylene	0.090	0.004	0.1874	0	48.2	10	168				
Benzo(k)fluoranthene	0.107	0.004	0.1874	0	57.3	27.6	181				
Chrysene	0.111	0.004	0.1874	0	59.4	10	176				
Dibenzo(a,h)anthracene	0.099	0.004	0.1874	0	52.6	12.2	156				
Fluoranthene	0.105	0.004	0.1874	0.003843	53.9	10	227				
Fluorene	0.088	0.004	0.1874	0	46.9	35.2	148				
Indeno(1,2,3-cd)pyrene	0.094	0.004	0.1874	0	50.3	10	164				
Naphthalene	0.147	0.004	0.1874	0.09834	26.1	14.7	128				

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: SV_8270S_S_SIMS

Sample ID: 09040446-002AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: IW-PT-201 (18-19)M	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2251764							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.097	0.004	0.1874	0.005237	49.1	32.8	143				
Pyrene	0.103	0.004	0.1874	0.003806	53.2	10	180				
Surr: 2-Fluorobiphenyl	0.082		0.1874		43.9	10	131				
Surr: Nitrobenzene-d5	0.097		0.1874		51.7	10	132				
Surr: p-Terphenyl-d14	0.102		0.1874		54.7	30.6	131				

Sample ID: 09040446-002AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/14/2009	RunNo: 121214							
Client ID: IW-PT-201 (18-19)M	Batch ID: 52284	SW3550B	Analysis Date: 4/15/2009	SeqNo: 2251765							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.118	0.004	0.1897	0	62.1	36	135	0.08420	33.2	49.7	
Acenaphthylene	0.125	0.004	0.1897	0	66.0	17.2	167	0.08877	34.1	33.3	R
Anthracene	0.128	0.004	0.1897	0	67.7	39.3	124	0.09112	34.0	51.1	
Benzo(a)anthracene	0.134	0.004	0.1897	0	70.6	10	183	0.09625	32.7	40.6	
Benzo(a)pyrene	0.143	0.004	0.1897	0	75.2	10	204	0.09782	37.3	56.4	
Benzo(b)fluoranthene	0.147	0.004	0.1897	0	77.6	10.6	178	0.1000	38.2	49.7	
Benzo(g,h,i)perylene	0.134	0.004	0.1897	0	70.5	10	168	0.09041	38.6	36.5	R
Benzo(k)fluoranthene	0.155	0.004	0.1897	0	81.8	27.6	181	0.1074	36.3	42.6	
Chrysene	0.149	0.004	0.1897	0	78.6	10	176	0.1113	29.1	45.1	
Dibenzo(a,h)anthracene	0.148	0.004	0.1897	0	77.8	12.2	156	0.09864	39.8	39.9	
Fluoranthene	0.145	0.004	0.1897	0.003843	74.3	10	227	0.1048	32.1	66.2	
Fluorene	0.126	0.004	0.1897	0	66.3	35.2	148	0.08783	35.6	65.6	
Indeno(1,2,3-cd)pyrene	0.142	0.004	0.1897	0	75.0	10	164	0.09419	40.7	36.5	R
Naphthalene	0.371	0.004	0.1897	0.09834	143.7	14.7	128	0.1472	86.4	39.6	SR
Phenanthrene	0.141	0.004	0.1897	0.005237	71.4	32.8	143	0.09730	36.4	35.4	R
Pyrene	0.145	0.004	0.1897	0.003806	74.6	10	180	0.1034	33.7	60.1	
Surr: 2-Fluorobiphenyl	0.101		0.1897		53.5	10	131		0	40	
Surr: Nitrobenzene-d5	0.124		0.1897		65.5	10	132		0	40	
Surr: p-Terphenyl-d14	0.142		0.1897		74.9	30.6	131		0	40	

Client: PSC Industrial Outsourcing, LP

ANALYTICAL QC SUMMARY REPORT

Project: A831-735002-012901-225/IP Champaign

TestCode: V_BTEX_S

Lab Order: 09040446

Report Date: 20-Apr-09

Sample ID: MBLK-G090414-1	SampType: MBLK	Units: µg/Kg	Prep Date: 4/14/2009	RunNo: 121230							
Client ID: ZZZZZZ	Batch ID: 52308	SW5035	Analysis Date: 4/14/2009	SeqNo: 2251154							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	5.0									
Ethylbenzene	ND	5.0									
Xylenes, Total	ND	5.0									
Surr: 1,2-Dichloroethane-d4	48.0		50.00		95.9	61	128				
Surr: 4-Bromofluorobenzene	49.7		50.00		99.5	78.2	117				
Surr: Dibromofluoromethane	50.3		50.00		100.7	66.6	130				
Surr: Toluene-d8	49.5		50.00		98.9	80.1	122				

Sample ID: LCS-G090414-1	SampType: LCS	Units: µg/Kg	Prep Date: 4/14/2009	RunNo: 121230							
Client ID: ZZZZZZ	Batch ID: 52308	SW5035	Analysis Date: 4/14/2009	SeqNo: 2251173							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.1	1.0	50.00	0	104.2	77.9	123				
Toluene	55.2	5.0	50.00	0	110.4	80.2	115				
Ethylbenzene	58.4	5.0	50.00	0	116.8	80.9	119				
Xylenes, Total	112	5.0	100.0	0	112.0	77.6	124				
Surr: 1,2-Dichloroethane-d4	44.2		50.00		88.3	61	128				
Surr: 4-Bromofluorobenzene	51.8		50.00		103.7	78.2	117				
Surr: Dibromofluoromethane	48.7		50.00		97.5	66.6	130				
Surr: Toluene-d8	49.3		50.00		98.5	80.1	122				

Sample ID: LCSD-G090414-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/14/2009	RunNo: 121230							
Client ID: ZZZZZZ	Batch ID: 52308	SW5035	Analysis Date: 4/14/2009	SeqNo: 2251174							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.5	1.0	50.00	0	103.0	77.9	123	52.11	1.20	20	
Toluene	53.3	5.0	50.00	0	106.5	80.2	115	55.18	3.52	20	
Ethylbenzene	56.4	5.0	50.00	0	112.7	80.9	119	58.41	3.59	20	
Xylenes, Total	108	5.0	100.0	0	108.4	77.6	124	112.0	3.25	20	

Client: PSC Industrial Outsourcing, LP

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

ANALYTICAL QC SUMMARY REPORT

TestCode: V_BTEX_S

Sample ID: LCS-D-G090414-1	SampType: LCSD	Units: µg/Kg	Prep Date: 4/14/2009	RunNo: 121230							
Client ID: ZZZZZZ	Batch ID: 52308	SW5035	Analysis Date: 4/14/2009	SeqNo: 2251174							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	45.0		50.00		89.9	61	128		0	0	
Surr: 4-Bromofluorobenzene	51.8		50.00		103.7	78.2	117		0	0	
Surr: Dibromofluoromethane	49.1		50.00		98.2	66.6	130		0	0	
Surr: Toluene-d8	49.0		50.00		98.0	80.1	122		0	0	

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: PSC Industrial Outsourcing, LP

RECEIVING CHECK LIST

Project: A831-735002-012901-225/IP Champaign

Lab Order: 09040446

Report Date: 20-Apr-09

Carrier: Terry Hattan

Received By: EAH

Completed by: *Marvin L. Darling II*

Reviewed by: *Heather A. White*

On:

On:

13-Apr-09

14-Apr-09

Marvin L. Darling

Heather A. White

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 2.8
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Samples were received with insufficient amount of time to meet hold time requirements for total solids/pmoist analysis.



Chain of Custody Record

210 West Sand Bank Road
P.O. Box 230
Columbia, IL 62236-0230

(618) 281-7173 Phone
(800) 733-7173
(618) 281-5120 Fax

09040446

Project Name: Champaign Amer Project Mgr.: Pek Szaruma

Project Number: _____ Cost Code: _____

Sampler(s): Jeff Milk

Laboratory Name: TEK Lab

Location: Collinsville

Sample Number and (depth)	Date	Time	Matrix				Total Number of Containers
			Soil	Water	Air	Wipes *	
Iw-PT-201 (11.5-12.5)	4/16/09	1615	X				X
Iw-PT-201 (18-19)	4/16/09	1658	X				X
Iw-PT-207 (13-14)	4/17/09	1605	X				X
Iw-PT-207 (18.5-19.5)	4/17/09	1655	X				X
Iw-PT-205 (12.5-13.5)	4/18/09	1235	X				X
Iw-PT-205 (17-18)	4/18/09	1245	X				X
Iw-PT-203 (12.5-13.5)	4/19/09	0920	X				X
Iw-PT-203 (19-20)	4/19/09	0930	X				X
Iw-PT-209 (12-13)	4/19/09	1515	X				X
Iw-PT-209 (19-20)	4/19/09	1530	X				X

Analyses by Method Name and Number

BTEX
PCB Metals
8270 Stump

Teklab, Inc.
Courier Pick Up

Laboratory Temperature upon Receipt
28.0

ICED

Comments (Field PID)

Lab ID #'s
09040446-01
-002
-003
-004
-005
-006
-007
-008
-009
-010

Samples Iced: Yes No

- Preservatives (ONLY for Water Samples)
- Volatile Organics Hydrochloric acid (HCl)
 - VOC Soil (5035) Sodium Bisulfate/Methanol
 - TPH Hydrochloric acid and/or Sulfuric acid (HNO₃)
 - Metals Nitric acid
 - Cyanide Sodium hydroxide (NaOH)
 - Other (Specify)

Lab Directives:

Requested TAT: Rush 5 Days STD Other _____
Fax and/or Mail Results to: Pek Szaruma

Send Invoice to: _____
QC Deliverable Requested: Full QC & Limits CLP-LIKE EDD Other _____
Special Guidelines: _____
Reporting Limits: _____
* Special: PAH'S

Shipping:

Carrier / Airbill No. _____

Relinquished by:

Signature	Date	Time
<u>[Signature]</u>	4/16/09	1632
<u>[Signature]</u>	4/13/09	1330
<u>[Signature]</u>	4/13/09	1555

Received by:

Signature	Date	Time
<u>[Signature]</u>	4/10/09	1632
<u>[Signature]</u>	4/13/09	1330
<u>[Signature]</u>	4/13/09	1555

Distribution: WHITE to Lab CANARY to PM PINK to QA/QC
PE-179 (6/03)

Shaded Areas to be Completed by Lab