Air Monitoring Report

Federal Creosote Superfund Site

Fourth Quarter 2006
Event

253628

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Air Monitoring Report

Federal Creosote Superfund Site

Section 1

Real time VOC and Particulate Summaries

Sevenson Environmental Services, Inc.
Federal Creosote Superfund Site
Summary of Real Time VOC Air Monitoring

Date	Station Location	VOC (Peak) AL:10,000 ppb	VOC (Peak-15 minute) AL: 2,000 ppb	VOC (TWA) AL: 300 ppb	Wind Direction (Predominant)
05-Dec-06	North #1	<100	<100	<100	W
	East #2	<100	<100	<100	
	South #3	400	400	100	
	West #4	100	<100	<100	
	BKGD	400	<100	<100	NA
	PAP	400	400	100	
06-Dec-06	North #1	<100	<100	<100	S
	East #2	<100	<100	<100	
	South #3	<100	<100	<100	
	West #4	<100	<100	<100	
	BKGD	<100	<100	<100	NA
	PAP	<100	<100	<100	
07-Dec-06	North #1	<100	<100	<100	W
	East #2	<100	<100	<100	
	South #3	<100	<100	<100	
	West #4	<100	<100	<100	
	BKGD	<100	<100	<100	NA
	PAP	<100	<100	<100	
11-Dec-06	North #1	<100	<100	<100	NA
	East #2	<100	<100	<100	
	South #3	<100	<100	<100	
	West #4	<100	<100	<100	
	BKGD	<100	<100	<100	N
	PAP	<100	<100	<100	
12-Dec-06	North #1	<100	<100	<100	E
	East #2	<100	<100	<100	
	South #3	<100	<100	<100	
	West #4	<100	<100	<100	
	BKGD	<100	<100	<100	NA
	PAP	500	500	200	
19-Dec-06	North #1	<100	<100	<100	N
	East #2	<100	<100	<100	
	South #3	<100	<100	<100	
	West #4	<100	<100	<100	
	BKGD	<100	<100	<100	NA
	PAP	<100	<100	<100	

Sevenson Environmental Services, Inc.
Federal Creosote Superfund Site
Summary of Real Time Particulate Air Monitoring

Date	Station Location	Particulate (Average) ug/m3	Particulate (Peak-15 minute) ug/m3	Baseline Reading/ Corrected Peak 15 min value ug/m3	Corrected value of upwind station ug/m3	Ambient particulate corrected Peak 15 min value ug/m3 *	Wind Direction (Predominant)
05-Dec-06	North #1	32	41	39/02	4	0	W
	East #2	92	373	38/335	4	331	
	South #3	45	95	28/67	4	63	
	West #4	18	24	20/04	4	0	
	BKGD	23	62	6/56	56	56	NA
	PAP	45	95	28/67	4	63	
06-Dec-06	North #1	136	368	63/305	62	243	S
	East #2	78	427	49/378	62	316	
	South #3	68	138	76/62	62	0	
	West #4	29	60	34/26	62	0	
	BKGD	47	69	42/27	27	0	NA
	PAP	68	138	76/62	27	35	
07-Dec-06	North #1	51	74	50/24	6	18	N
	East #2	58	169	42/127	6	121	
	South #3	45	66	56/10	6	4	
	West #4	23	35	29/6	6	0	
	BKGD	26	51	51/0	0	0	NA
	PAP	45	66	56/10	0	9	
11-Dec-06	North #1	36	79	79/0	0	0	N
	East #2	45	244	60/184	0	0	
	South #3	34	65	57/8	0	0	
	West #4	15	41	41/0	0	0	
	BKGD	40	53	44/9	9	0	NA
	PAP	34	65	57/8	9	0	
12-Dec-06	North #1	52	68	65/05	0	0	E
	East #2	47	67	67/0	0	0	
	South #3	53	63	61/2	0	0	
	West #4	41	62	50/12	0	0	
	BKGD	19	26	26/0	0	0	NA
	PAP	53	63	61/2	0	2	
19-Dec-06	North #1	34	59	15/44	44	0	N
	East #2	24	153	14/139	44	95	
	South #3	23	48	7/41	44	0	
	West #4	23	50	3/47	44	3	
	BKGD	38	92	29/63	68	0	NA
	PAP	26	89	5/84	68	21	

* Ambient particulate corrected value denotes the particulate concentration at a given station excluding the baseline and upwind (or background) station concentrations.

4

10

11

12

PAP

335 - 4

PAP upwind

PAP

FEDERAL CREOSOTE SUPERFUND SITE

DAILY SAFETY REPORT

DATE:	December 5, 2006
WORK PERIOD COVERED:	0000- 2400
WEATHER CONDITIONS:	See attached Weather Data Report.
SUMMARY OF DAY'S WORK ACTIVITIES:	See Daily QC report.
EQUIPMENT UTILIZED BY SAFETY PERSONNEL:	Weather Station. Multi RAE monitors.
PROTECTIVE EQUIPMENT AND CLOTHING:	Level D and Modified Level D protection issued.
PHYSICAL CONDITIONS OF WORKERS:	Excellent.
ACCIDENT OR BREACH OF PROCEDURES:	All work performed in accordance with USACE Reg. EM 385-1-1 and 29 CFR 1910.120.
DESCRIPTION OF AIR MONITORING AND SAMPLES TAKEN:	Air monitoring for exclusion zone, background and perimeter particulate and VOC concentrations.
DAILY SAFETY MEETING:	Cold Weather Safety
NOTES:	Air monitoring station East # 2 Dust Track recorded elevated particulate levels. Dust suppression methods were successfully implemented to reduce readings to below action levels.

Eric Tschudi
SES Site Safety and Health Officer

FEDERAL CREOSOTE SUPERFUND SITE

DAILY SAFETY REPORT

DATE:	December 6, 2006
WORK PERIOD COVERED:	0000- 2400
WEATHER CONDITIONS:	See attached Weather Data Report.
SUMMARY OF DAY'S WORK ACTIVITIES:	See Daily QC report.
EQUIPMENT UTILIZED BY SAFETY PERSONNEL:	Weather Station. Multi RAE monitors.
PROTECTIVE EQUIPMENT AND CLOTHING:	Level D and Modified Level D protection issued.
PHYSICAL CONDITIONS OF WORKERS:	Excellent.
ACCIDENT OR BREACH OF PROCEDURES:	All work performed in accordance with USACE Reg. EM 385-1-1 and 29 CFR 1910.120.
DESCRIPTION OF AIR MONITORING AND SAMPLES TAKEN:	Air monitoring for exclusion zone, background and perimeter particulate and VOC concentrations. Collected documentation sample from North Area excavation.
DAILY SAFETY MEETING:	USACE Report: Two Men Fall While Hanging Christmas Lights
NOTES:	Air monitoring stations North # 1 and East # 2 Dust Track recorded elevated particulate levels. Dust suppression methods were successfully implemented to reduce readings to below action levels.

Eric Tschudi
SES Site Safety and Health Officer

Air Monitoring Report

Federal Creosote Superfund Site

Section 2

PM10, TO13 and TO14 Summary Comparisons

PM-10 SAMPLE RESULTS - RESPIRABLE PARTICULATE

December 19, 2006		
Location	**Result (ug/m^3)**	**Limit (ug/m^3)**
1	17	150
2	44	150
3	34	150
4	16	150
5	19	150
6	40	150

T0-14 SAMPLE RESULTS - BTEX

December 19, 2006		
Location	**Result (ppb)**	**Limit (ppb)**
1	Benzene (ND) Ethyl Benzene (ND) Toluene (1.0) Xylene(s) (ND)	10 1,000 1,000 1,000
2	Benzene (ND) Ethyl Benzene (ND) Toluene (0.87) Xylene(s) (ND)	10 1,000 1,000 1,000
3	Benzene (ND) Ethyl Benzene (ND) Toluene (0.89) Xylene(s) (ND)	10 1,000 1,000 1,000
4	Benzene (ND) Ethyl Benzene (ND) Toluene (0.91) Xylene(s) (ND)	10 1,000 1,000 1,000
5	Benzene (ND) Ethyl Benzene (ND) Toluene (0.92) Xylene(s) (ND)	10 1,000 1,000 1,000
6	Benzene (ND) Ethyl Benzene (ND) Toluene (0.94) Xylene(s) (ND)	10 1,000 1,000 1,000

TO-13 SAMPLE RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS

December 19, 2006		
Location	**Result (ug/m^3)**	**Limit (ug/m^3)**
1	Acenaphthene (0.113)	2
	Acenaphthylene (0.006)	2
	Anthracene (0.003)	2
	Benzo (a) anthracene (0.007)	2
	Benzo (b) fluoranthene (0.001)	2
	Benzo (g,h,i) perylene (0.0008)	2
	Benzo (k) fluoranthene (0.0005)	2
	Chrysene (0.001)	2
	Fluoranthene (0.007)	2
	Fluorene (0.07)	2
	Indeno (1,2,3-cd) pyrene (0.009)	2
	1-Methylnaphthalene (0.90)	500
	2-Methylnaphthalene (1.80)	2
	Naphthalene (11.5)	2
	Phenanthrene (0.06)	
	Pyrene (0.003)	
2	Acenaphthene (0.07)	2
	Acenaphthylene (0.004)	2
	Anthracene (0.002)	2
	Benzo (a) anthracene (0.0004)	2
	Benzo (b) fluoranthene (0.0008)	2
	Benzo (g,h,i) perylene (0.0005)	2
	Benzo (k) fluoranthene (0.0003)	2
	Chrysene (0.0006)	2
	Fluoranthene (0.003)	2
	Fluorene (0.059)	2
	Indeno (1,2,3-cd) pyrene (0.0006)	2
	1-Methylnaphthalene (1.10)	2
	2-Methylnaphthalene (2.12)*	2
	Naphthalene (13.3)	500
	Phenanthrene (0.04)	2
	Pyrene (0.002)	2

TO-13 SAMPLE RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS

December 19, 2006		
Location	**Result (ug/m^3)**	**Limit (ug/m^3)**
3	Acenaphthene (0.006)	2
	Acenaphthylene (0.002)	2
	Anthracene (0.0013)	2
	Benzo (a) anthracene (0.0003)	2
	Benzo (b) fluoranthene (0.0008)	2
	Benzo (e) pyrene (0.0004)	2
	Benzo (g,h,i) perylene (0.0005)	2
	Benzo (k) fluoranthene (0.0002)	2
	Chrysene (0.0006)	2
	Fluoranthene (0.0022)	2
	Fluorene (0.0067)	2
	Indeno (1,2,3-cd) pyrene (0.0006)	2
	1-Methylnaphthalene (0.04)	2
	2-Methylnaphthalene (0.07)	2
	Naphthalene (0.25)	500
	Phenanthrene (0.01)	2
	Pyrene (0.0015)	2
4	Acenaphthene (0.296)	2
	Acenaphthylene (0.006)	2
	Anthracene (0.002)	2
	Benzo (a) anthracene (0.0005)	2
	Benzo (b) fluoranthene (0.0014)	2
	Benzo (e) pyrene (0.0006)	2
	Benzo (g,h,i) perylene (0.0007)	2
	Benzo (k) fluoranthene (0.0004)	2
	Chrysene (0.0010)	2
	Fluoranthene (0.005)	2
	Fluorene (0.033)	2
	Indeno (1,2,3-cd) pyrene (0.0009)	2
	1-Methylnaphthalene (0.691)	2
	2-Methylnaphthalene (1.32)	2
	Naphthalene (9.79)	500
	Phenanthrene (0.03)	2
	Pyrene (0.0028)	2

TO-13 SAMPLE RESULTS - SEMI-VOLATILE ORGANIC COMPOUNDS

December 19, 2006		
Location	**Result (ug/m^3)**	**Limit (ug/m^3)**
5	Acenaphthene (0.159)	2
	Acenaphthylene (0.005)	2
	Anthracene (0.002)	2
	Benzo (a) anthracene (0.0005)	2
	Benzo (b) fluoranthene (0.0011)	2
	Benzo (e) pyrene (0.0005)	2
	Benzo (g,h,i) perylene (0.0007)	2
	Benzo (k) fluoranthene (0.0003)	2
	Chrysene (0.0008)	2
	Fluoranthene (0.0043)	2
	Fluorene (0.028)	2
	Indeno (1,2,3-cd) pyrene (0.0007)	2
	1-Methylnaphthalene (0.597)	2
	2-Methylnaphthalene (1.17)	2
	Naphthalene (7.72)	500
	Phenanthrene (0.027)	2
	Pyrene (0.002)	2
6	Acenaphthene (0.0138)	2
	Acenaphthylene (0.0039)	2
	Anthracene (0.0017)	2
	Benzo (a) anthracene (0.0004)	2
	Benzo (b) fluoranthene (0.0008)	2
	Benzo (e) pyrene (0.0003)	2
	Benzo (g,h,i) perylene (0.0005)	2
	Chrysene (0.0005)	2
	Fluoranthene (0.0021)	2
	Fluorene (0.0139)	2
	Indeno (1,2,3-cd) pyrene (0.0006)	2
	1-Methylnaphthalene (0.111)	2
	2-Methylnaphthalene (0.21)	2
	Naphthalene (0.944)	500
	Phenanthrene (0.0144)	2
	Pyrene (0.0017)	2

*Above Limit

Memorandum To File

Subject: Federal Creosote Monthly Air Sampling Event Fourth Quarter 2006.
Re: EPA Method TO13 analysis, Methylnaphthalene concentration.
Lagoon-A Perimeter Station #2 East Location

On December 19, 2006 SES conducted the twenty-four hour quarterly air-sampling event consisting of four perimeter stations, one background and one predominant airborne pathway station (PAP).

After data review of the analytical report, a concentration of methylnaphthalene at 2.12 ug/m3 was identified.

Having an action level established at a concentration of 2.0 ug/m3, one may assume an exceedance had occurred. However once the upwind concentration (1.23 ug/m3) is subtracted, the adjusted result is below the 2.0 ug/m3 action level.

Air Monitoring Report

Federal Creosote Superfund Site

Section 3

Analytical Reports

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39 Spruce Street • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL. 413/525-2332

REPORT DATE 1/12/2007

SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305
ATTN: PAUL HITCHO

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: G222

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-02722
JOB NUMBER: G222

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: FEDERAL CREOSOTE

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	
OU3-N-121906-A	06B42842	AIR	NOT SPECIFIED	sub special test	SUBCONTRACTED
OU3-N-121906-AA	06B42843	AIR	NOT SPECIFIED	sub special test	SUBCONTRACTED
OU3-N-121906-B	06B42844	AIR	NOT SPECIFIED	btex air	
PM10-121906-1	06B42824	AIR	NOT SPECIFIED	air special test	
PM10-121906-2	06B42825	AIR	NOT SPECIFIED	air special test	
PM10-121906-3	06B42826	AIR	NOT SPECIFIED	air special test	
PM10-121906-4	06B42827	AIR	NOT SPECIFIED	air special test	
PM10-121906-5	06B42828	AIR	NOT SPECIFIED	air special test	
PM10-121906-6	06B42829	AIR	NOT SPECIFIED	air special test	
PUF-121906-1	06B42830	AIR	NOT SPECIFIED	to-13	
PUF-121906-2	06B42831	AIR	NOT SPECIFIED	to-13	
PUF-121906-3	06B42832	AIR	NOT SPECIFIED	to-13	
PUF-121906-4	06B42833	AIR	NOT SPECIFIED	to-13	
PUF-121906-5	06B42834	AIR	NOT SPECIFIED	to-13	
PUF-121906-6	06B42835	AIR	NOT SPECIFIED	to-13	
SUMMA-121906-1	06B42836	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-1	06B42836	AIR	NOT SPECIFIED	to-14 ug/m3	
SUMMA-121906-2	06B42837	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-2	06B42837	AIR	NOT SPECIFIED	to-14 ug/m3	
SUMMA-121906-3	06B42838	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-3	06B42838	AIR	NOT SPECIFIED	to-14 ug/m3	
SUMMA-121906-4	06B42839	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-4	06B42839	AIR	NOT SPECIFIED	to-14 ug/m3	
SUMMA-121906-5	06B42840	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-5	06B42840	AIR	NOT SPECIFIED	to-14 ug/m3	
SUMMA-121906-6	06B42841	AIR	NOT SPECIFIED	to-14 ppbv	
SUMMA-121906-6	06B42841	AIR	NOT SPECIFIED	to-14 ug/m3	

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REPORT DATE 1/12/2007

SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305
ATTN: PAUL HITCHO

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: G222

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-02722
JOB NUMBER: G222

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMT-02722

IN METHOD TO-13A, FOR SAMPLE(S) 06B42832-06B42835, ANY REPORTED RESULTS FOR PYRENE, BENZO(A)ANTHRACENE, CHRYSENE, BENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(E)PYRENE, BENZO(A)PYRENE, PERYLENE, INDENO(1,2,3-CD)PYRENE, DIBENZO(A,H)ANTHRACENE, BENZO(G,H,I)PERLENE ARE ESTIMATED. INTERNAL STANDARD AREA DID NOT MEET METHOD SPECIFICATIONS. SUSPECTED SAMPLE MATRIX INTERFERENCE. UNABLE TO REANALYZE DO TO LIMITED SAMPLE.

IN METHOD TO-13A, FOR SAMPLE(S) 06B42830, ANY REPORTED RESULTS FOR ENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(E)PYRENE, BENZO(A)PYRENE, ERYLENE, INDENO(1,2,3-CD)PYRENE, DIBENZO(A,H)ANTHRACENE, BENZO(G,H,I)PERLENE RE ESTIMATED. INTERNAL STANDARD AREA DID NOT MEET METHOD SPECIFICATIONS. SUSPECTED SAMPLE MATRIX INTERFERENCE. UNABLE TO REANALYZE DO TO LIMITED SAMPLE.

IN METHOD TO-13A, FOR SAMPLE(S) 06B42831, ANY REPORTED RESULTS FOR ACENAPHTHYLENE, ACENAPHTHENE, FLUORENE, PYRENE, BENZO(A)ANTHRACENE, CHRYSENE, BENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(E)PYRENE, BENZO(A)PYRENE, PERYLENE, INDENO(1,2,3-CD)PYRENE, DIBENZO(A,H)ANTHRACENE, BENZO(G,H,I)PERLENE ARE ESTIMATED. INTERNAL STANDARD AREA DID NOT MEET METHOD SPECIFICATIONS. SUSPECTED SAMPLE MATRIX INTERFERENCE. UNABLE TO REANALYZE DO TO LIMITED SAMPLE.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033
MASSACHUSETTS MA0100
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NEW HAMPSHIRE NELAP 2516
VERMONT DOH (LEAD) No. LL015036
RHODE ISLAND (LIC. No. 112)

NEW JERSEY NELAP NJ MA007 (AIR)

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 1/12/07

SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006

Field Sample # : PM10-121906-1
Sample ID : 06B42824
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				
SEE ATTACHED								

Field Sample # : PM10-121906-2
Sample ID : 06B42825
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				
SEE ATTACHED								

Field Sample # : PM10-121906-3
Sample ID : 06B42826
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				
SEE ATTACHED								

Field Sample # : PM10-121906-4
Sample ID : 06B42827
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				
SEE ATTACHED								

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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. AUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006

Field Sample # : **PM10-121906-5**

Sample ID : **06B42828** Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				

SEE ATTACHED

Field Sample # : **PM10-121906-6**

Sample ID : **06B42829** Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR Sample Medium : FILTER

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			12/27/06	MM				

SEE ATTACHED

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : OU3-N-121906-B
Sample ID : 06B42844

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : TUBE

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	mg	ND	01/03/07	MFF	0.002			
Benzene	mg/cu m	ND	01/03/07	MFF	0.042			
Benzene	ppm	ND	01/03/07	MFF	0.014		10	P
Ethyl Benzene	mg	ND	01/03/07	MFF	0.002			
Ethyl Benzene	mg/cu m	ND	01/03/07	MFF	0.042			
Ethyl Benzene	ppm	ND	01/03/07	MFF	0.010		100	P
Toluene	mg	ND	01/03/07	MFF	0.002			
Toluene	mg/cu m	ND	01/03/07	MFF	0.042			
Toluene	ppm	ND	01/03/07	MFF	0.012		100	P
p&m-Xylene	mg	ND	01/03/07	MFF	0.004			
p&m-Xylene	mg/cu m	ND	01/03/07	MFF	0.084			
p&m-Xylene	ppm	ND	01/03/07	MFF	0.020		100	P
o-Xylene	mg	ND	01/03/07	MFF	0.002			
o-Xylene	mg/cu m	ND	01/03/07	MFF	0.042			
o-Xylene	ppm	ND	01/03/07	MFF	0.010		100	P
Air Volume	liters	48.00	01/03/07	MFF				
Sampling Time	minutes	480.0	01/03/07	MFF				

Analytical Method:
NIOSH 1501
SAMPLES ARE COLLECTED ON CHARCOAL, DESORBED WITH CARBON DISULFIDE, AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (FID).

FRONT AND BACK SECTIONS ARE ANALYZED SEPARATELY. BREAKTHROUGH INTO THE REAR SECTION, IF DETECTED, IS NOTED.

CALCULATIONS OF CONCENTRATIONS IN AIR ARE BASED ON INFORMATION REGARDING AIR VOLUMES AS REPORTED TO THE LABORATORY.

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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AUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **OU3-N-121906-A**

Sample ID : **06B42842** Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : AIR CASSETTE

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			01/05/07	EHL				

SUBCONTRACTED ANALYSIS FOR PAH BY METHOD NIOSH 5506.

PLEASE SEE ATTACHED HARD COPY FOR RESULTS.

Field Sample # : **OU3-N-121906-AA**

Sample ID : **06B42843** Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR Sample Medium : TUBE

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
SPECIAL TEST			01/05/07	EHL				

SUBCONTRACTED ANALYSIS FOR PAH BY METHOD NIOSH 5506.

PLEASE SEE ATTACHED HARD COPY FOR RESULTS.

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NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-1
Sample ID : 06B42830

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : PUF

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug	46.2	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.113	01/04/07	BGL	0.0002			
Acenaphthylene	ug	2.71	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0066	01/04/07	BGL	0.0002			
Anthracene	ug	1.34	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0033	01/04/07	BGL	0.0002			
Benzo(a)anthracene	ug	0.27	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0007	01/04/07	BGL	0.0002			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0003			
Benzo(b)fluoranthene	ug	0.60	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0015	01/04/07	BGL	0.0002			
Benzo(e)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	ND	01/04/07	BGL	0.0003			
Benzo(g,h,i)perylene	ug	0.33	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0008	01/04/07	BGL	0.0002			
Benzo(k)fluoranthene	ug	0.19	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	0.0005	01/04/07	BGL	0.0002			
Chrysene	ug	0.46	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0011	01/04/07	BGL	0.0002			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0003			
Fluoranthene	ug	2.97	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0073	01/04/07	BGL	0.0002			
Fluorene	ug	31.2	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0764	01/04/07	BGL	0.0002			
Indeno(1,2,3-cd)pyrene	ug	0.38	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0009	01/04/07	BGL	0.0002			
1-Methylnaphthalene	ug	370.	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	0.906	01/04/07	BGL	0.0002			

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2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-1
Sample ID : 06B42830

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : PUF

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
2-Methylnaphthalene	ug	735.	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	1.80	01/04/07	BGL	0.0002			
Naphthalene	ug	4680	01/04/07	BGL	0.10			
Naphthalene	ug/m3	11.5	01/04/07	BGL	0.0002			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0003			
Phenanthrene	ug	25.2	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0617	01/04/07	BGL	0.0002			
Pyrene	ug	1.54	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0038	01/04/07	BGL	0.0002			
Air Volume	liters	408300	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-2
Sample ID : 06B42831

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : PUF

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug	36.8	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.0710	01/04/07	BGL	0.0002			
Acenaphthylene	ug	2.54	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0049	01/04/07	BGL	0.0002			
Anthracene	ug	1.31	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0025	01/04/07	BGL	0.0002			
Benzo(a)anthracene	ug	0.20	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0004	01/04/07	BGL	0.0002			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0002			
Benzo(b)fluoranthene	ug	0.42	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0008	01/04/07	BGL	0.0002			
Benzo(e)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	ND	01/04/07	BGL	0.0002			
Benzo(g,h,i)perylene	ug	0.25	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0005	01/04/07	BGL	0.0002			
Benzo(k)fluoranthene	ug	0.13	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	0.0003	01/04/07	BGL	0.0002			
Chrysene	ug	0.32	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0006	01/04/07	BGL	0.0002			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0002			
Fluoranthene	ug	1.67	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0032	01/04/07	BGL	0.0002			
Fluorene	ug	30.6	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0590	01/04/07	BGL	0.0002			
Indeno(1,2,3-cd)pyrene	ug	0.29	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0006	01/04/07	BGL	0.0002			
1-Methylnaphthalene	ug	570.	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	1.10	01/04/07	BGL	0.0002			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **PUF-121906-2**

Sample ID : **06B42831**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
2-Methylnaphthalene	ug	1100	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	2.12	01/04/07	BGL	0.0002			
Naphthalene	ug	6900	01/04/07	BGL	0.10			
Naphthalene	ug/m3	13.3	01/04/07	BGL	0.0002			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0002			
Phenanthrene	ug	20.8	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0401	01/04/07	BGL	0.0002			
Pyrene	ug	1.03	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0020	01/04/07	BGL	0.0002			
Air Volume	liters	518600	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-3

Sample ID : 06B42832
Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug	2.59	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.0060	01/04/07	BGL	0.0002			
Acenaphthylene	ug	1.20	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0028	01/04/07	BGL	0.0002			
Anthracene	ug	0.54	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0013	01/04/07	BGL	0.0002			
Benzo(a)anthracene	ug	0.15	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0003	01/04/07	BGL	0.0002			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0003			
Benzo(b)fluoranthene	ug	0.34	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0008	01/04/07	BGL	0.0002			
Benzo(e)pyrene	ug	0.16	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	0.0004	01/04/07	BGL	0.0002			
Benzo(g,h,i)perylene	ug	0.23	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0005	01/04/07	BGL	0.0002			
Benzo(k)fluoranthene	ug	0.10	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	0.0002	01/04/07	BGL	0.0002			
Chrysene	ug	0.24	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0006	01/04/07	BGL	0.0002			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0003			
Fluoranthene	ug	0.94	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0022	01/04/07	BGL	0.0002			
Fluorene	ug	2.89	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0067	01/04/07	BGL	0.0002			
Indeno(1,2,3-cd)pyrene	ug	0.26	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0006	01/04/07	BGL	0.0002			
1-Methylnaphthalene	ug	17.4	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	0.0404	01/04/07	BGL	0.0002			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-3

Sample ID : 06B42832 Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
2-Methylnaphthalene	ug	33.4	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	0.0776	01/04/07	BGL	0.0002			
Naphthalene	ug	109.	01/04/07	BGL	0.10			
Naphthalene	ug/m3	0.253	01/04/07	BGL	0.0002			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0003			
Phenanthrene	ug	4.41	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0103	01/04/07	BGL	0.0002			
Pyrene	ug	0.63	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0015	01/04/07	BGL	0.0002			
Air Volume	liters	430200	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-4

Sample ID : 06B42833
Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug	90.0	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.296	01/04/07	BGL	0.0003			
Acenaphthylene	ug	1.91	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0063	01/04/07	BGL	0.0003			
Anthracene	ug	0.86	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0028	01/04/07	BGL	0.0003			
Benzo(a)anthracene	ug	0.16	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0005	01/04/07	BGL	0.0003			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0004			
Benzo(b)fluoranthene	ug	0.43	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0014	01/04/07	BGL	0.0003			
Benzo(e)pyrene	ug	0.18	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	0.0006	01/04/07	BGL	0.0003			
Benzo(g,h,i)perylene	ug	0.22	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0007	01/04/07	BGL	0.0003			
Benzo(k)fluoranthene	ug	0.11	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	0.0004	01/04/07	BGL	0.0003			
Chrysene	ug	0.29	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0010	01/04/07	BGL	0.0003			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0004			
Fluoranthene	ug	1.64	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0054	01/04/07	BGL	0.0003			
Fluorene	ug	10.2	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0336	01/04/07	BGL	0.0003			
Indeno(1,2,3-cd)pyrene	ug	0.28	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0009	01/04/07	BGL	0.0003			
1-Methylnaphthalene	ug	210.	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	0.691	01/04/07	BGL	0.0003			

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **PUF-121906-4**

Sample ID : **06B42833**
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
2-Methylnaphthalene	ug	400.	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	1.32	01/04/07	BGL	0.0003			
Naphthalene	ug	2980	01/04/07	BGL	0.10			
Naphthalene	ug/m3	9.79	01/04/07	BGL	0.0003			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0004			
Phenanthrene	ug	9.63	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0317	01/04/07	BGL	0.0003			
Pyrene	ug	0.86	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0028	01/04/07	BGL	0.0003			
Air Volume	liters	304000	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
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* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : PUF-121906-5
Sample ID : 06B42834

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : PUF

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	ug	60.0	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.159	01/04/07	BGL	0.0003			
Acenaphthylene	ug	2.04	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0054	01/04/07	BGL	0.0003			
Anthracene	ug	1.01	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0027	01/04/07	BGL	0.0003			
Benzo(a)anthracene	ug	0.20	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0005	01/04/07	BGL	0.0003			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0003			
Benzo(b)fluoranthene	ug	0.43	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0011	01/04/07	BGL	0.0003			
Benzo(e)pyrene	ug	0.19	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	0.0005	01/04/07	BGL	0.0003			
Benzo(g,h,i)perylene	ug	0.26	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0007	01/04/07	BGL	0.0003			
Benzo(k)fluoranthene	ug	0.12	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	0.0003	01/04/07	BGL	0.0003			
Chrysene	ug	0.31	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0008	01/04/07	BGL	0.0003			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0003			
Fluoranthene	ug	1.61	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0043	01/04/07	BGL	0.0003			
Fluorene	ug	10.7	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0284	01/04/07	BGL	0.0003			
Indeno(1,2,3-cd)pyrene	ug	0.28	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0007	01/04/07	BGL	0.0003			
1-Methylnaphthalene	ug	225.	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	0.597	01/04/07	BGL	0.0003			

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **PUF-121906-5**

Sample ID : **06B42834**
Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
2-Methylnaphthalene	ug	440.	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	1.17	01/04/07	BGL	0.0003			
Naphthalene	ug	2910	01/04/07	BGL	0.10			
Naphthalene	ug/m3	7.72	01/04/07	BGL	0.0003			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0003			
Phenanthrene	ug	10.5	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0279	01/04/07	BGL	0.0003			
Pyrene	ug	0.96	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0025	01/04/07	BGL	0.0003			
Air Volume	liters	377000	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **PUF-121906-6**
Sample ID : **06B42835**

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : PUF

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Acenaphthene	ug	4.46	01/04/07	BGL	0.10			
Acenaphthene	ug/m3	0.0138	01/04/07	BGL	0.0003			
Acenaphthylene	ug	1.27	01/04/07	BGL	0.10			
Acenaphthylene	ug/m3	0.0039	01/04/07	BGL	0.0003			
Anthracene	ug	0.55	01/04/07	BGL	0.10			
Anthracene	ug/m3	0.0017	01/04/07	BGL	0.0003			
Benzo(a)anthracene	ug	0.12	01/04/07	BGL	0.10			
Benzo(a)anthracene	ug/m3	0.0004	01/04/07	BGL	0.0003			
Benzo(a)pyrene	ug	ND	01/04/07	BGL	0.10			
Benzo(a)pyrene	ug/m3	ND	01/04/07	BGL	0.0004			
Benzo(b)fluoranthene	ug	0.26	01/04/07	BGL	0.10			
Benzo(b)fluoranthene	ug/m3	0.0008	01/04/07	BGL	0.0003			
Benzo(e)pyrene	ug	0.11	01/04/07	BGL	0.10			
Benzo(e)pyrene	ug/m3	0.0003	01/04/07	BGL	0.0003			
Benzo(g,h,i)perylene	ug	0.17	01/04/07	BGL	0.10			
Benzo(g,h,i)perylene	ug/m3	0.0005	01/04/07	BGL	0.0003			
Benzo(k)fluoranthene	ug	ND	01/04/07	BGL	0.10			
Benzo(k)fluoranthene	ug/m3	ND	01/04/07	BGL	0.0004			
Chrysene	ug	0.17	01/04/07	BGL	0.10			
Chrysene	ug/m3	0.0005	01/04/07	BGL	0.0003			
Dibenzo(a,h)anthracene	ug	ND	01/04/07	BGL	0.10			
Dibenzo(a,h)anthracene	ug/m3	ND	01/04/07	BGL	0.0004			
Fluoranthene	ug	0.67	01/04/07	BGL	0.10			
Fluoranthene	ug/m3	0.0021	01/04/07	BGL	0.0003			
Fluorene	ug	4.50	01/04/07	BGL	0.10			
Fluorene	ug/m3	0.0139	01/04/07	BGL	0.0003			
Indeno(1,2,3-cd)pyrene	ug	0.20	01/04/07	BGL	0.10			
Indeno(1,2,3-cd)pyrene	ug/m3	0.0006	01/04/07	BGL	0.0003			
1-Methylnaphthalene	ug	36.0	01/04/07	BGL	0.10			
1-Methylnaphthalene	ug/m3	0.111	01/04/07	BGL	0.0003			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **PUF-121906-6**

Sample ID : **06B42835**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : PUF

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
2-Methylnaphthalene	ug	68.0	01/04/07	BGL	0.10			
2-Methylnaphthalene	ug/m3	0.210	01/04/07	BGL	0.0003			
Naphthalene	ug	305.	01/04/07	BGL	0.10			
Naphthalene	ug/m3	0.944	01/04/07	BGL	0.0003			
Perylene	ug	ND	01/04/07	BGL	0.10			
Perylene	ug/m3	ND	01/04/07	BGL	0.0004			
Phenanthrene	ug	4.66	01/04/07	BGL	0.10			
Phenanthrene	ug/m3	0.0144	01/04/07	BGL	0.0003			
Pyrene	ug	0.54	01/04/07	BGL	0.10			
Pyrene	ug/m3	0.0017	01/04/07	BGL	0.0003			
Air Volume	liters	323100	01/04/07	BGL				

Analytical Method:
EPA TO-13
SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-1

Sample ID : 06B42836
Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	ND	01/04/06	TPH	0.50			
,2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	0.55	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
trans-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	2.0	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	1.0	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-1

Sample ID : 06B42836
Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
o-Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-2
Sample ID : 06B42837

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	0.56	01/04/06	TPH	0.50			
1,2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	0.56	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
trans-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	1.5	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	0.87	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	0.50	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-2

Sample ID : 06B42837
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
o-Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-3**

Sample ID : **06B42838**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	0.62	01/04/06	TPH	0.50			
1,2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	0.54	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	ND	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	0.89	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-3

Sample ID : 06B42838

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
o-Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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'AUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-4

Sample ID : 06B42839

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	0.52	01/04/06	TPH	0.50			
1,2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	0.50	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
trans-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	4.9	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	0.91	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			

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NIAGARA FALLS, NY 14305

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-4
Sample ID : 06B42839

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-5

Sample ID : 06B42840

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	0.51	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
trans-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	ND	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	0.92	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-5**
Sample ID : **06B42840**

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
-Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-6**
Sample ID : **06B42841**

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	PPBv	ND	01/04/06	TPH	0.50			
Bromomethane	PPBv	ND	01/04/06	TPH	0.50			
Carbon Tetrachloride	PPBv	ND	01/04/06	TPH	0.50			
Chlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Chloroethane	PPBv	ND	01/04/06	TPH	0.50			
Chloroform	PPBv	ND	01/04/06	TPH	0.50			
Chloromethane	PPBv	ND	01/04/06	TPH	0.50			
2-Dibromoethane	PPBv	ND	01/04/06	TPH	0.50			
2-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,4-Dichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
Dichlorodifluoromethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
cis-1,2-Dichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichloropropane	PPBv	ND	01/04/06	TPH	0.50			
cis-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
trans-1,3-Dichloropropene	PPBv	ND	01/04/06	TPH	0.50			
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	01/04/06	TPH	0.50			
Ethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Hexachlorobutadiene	PPBv	ND	01/04/06	TPH	0.50			
Methylene Chloride	PPBv	3.7	01/04/06	TPH	0.50			
Styrene	PPBv	ND	01/04/06	TPH	0.50			
1,1,2,2-Tetrachloroethane	PPBv	ND	01/04/06	TPH	0.50			
Tetrachloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Toluene	PPBv	0.94	01/04/06	TPH	0.50			
1,2,4-Trichlorobenzene	PPBv	ND	01/04/06	TPH	0.50			
1,1,1-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloroethane	PPBv	ND	01/04/06	TPH	0.50			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-6**

Sample ID : **06B42841**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Trichloroethylene	PPBv	ND	01/04/06	TPH	0.50			
Trichlorofluoromethane (Freon 11)	PPBv	ND	01/04/06	TPH	0.50			
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	01/04/06	TPH	0.50			
1,2,4-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
1,3,5-Trimethylbenzene	PPBv	ND	01/04/06	TPH	0.50			
Vinyl Chloride	PPBv	ND	01/04/06	TPH	0.50			
m/p-Xylene	PPBv	ND	01/04/06	TPH	1.0			
o-Xylene	PPBv	ND	01/04/06	TPH	0.50			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-1
Sample ID : 06B42836

Sampled : 12/20/2006
NOT SPECIFIED
Sample Medium : SUMMA

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	ND	01/04/06	TPH	1.0			
2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.7	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	6.9	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.8	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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AUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-1

Sample ID : 06B42836

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

nalytical Method:
PA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-2

Sample ID : 06B42837

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	1.2	01/04/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.8	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	5.3	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.3	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-2

Sample ID : 06B42837

Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-3

Sample ID : 06B42838

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	Hi	P/ F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	1.3	01/04/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.7	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	ND	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.3	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-3**

Sample ID : **06B42838**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-4

Sample ID : 06B42839

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	1.1	01/04/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.5	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	17.	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.4	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-4

Sample ID : 06B42839

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-5

Sample ID : 06B42840

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	ND	01/04/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	2.5	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	ND	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.5	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-5

Sample ID : 06B42840
Sampled : 12/20/2006
NOT SPECIFIED
Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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PAUL HITCHO
SEVENSON ENVIRONMENTAL SERVICES, INC
2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305

1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : **SUMMA-121906-6**

Sample ID : **06B42841**

Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Benzene	ug/m3	ND	01/04/06	TPH	1.6			
Bromomethane	ug/m3	ND	01/04/06	TPH	1.9			
Carbon Tetrachloride	ug/m3	ND	01/04/06	TPH	3.1			
Chlorobenzene	ug/m3	ND	01/04/06	TPH	2.3			
Chloroethane	ug/m3	ND	01/04/06	TPH	1.3			
Chloroform	ug/m3	ND	01/04/06	TPH	2.4			
Chloromethane	ug/m3	ND	01/04/06	TPH	1.0			
1,2-Dibromoethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,3-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
1,4-Dichlorobenzene	ug/m3	ND	01/04/06	TPH	3.0			
Dichlorodifluoromethane	ug/m3	ND	01/04/06	TPH	2.5			
1,1-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloroethane	ug/m3	ND	01/04/06	TPH	2.0			
1,1-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
cis-1,2-Dichloroethylene	ug/m3	ND	01/04/06	TPH	2.0			
1,2-Dichloropropane	ug/m3	ND	01/04/06	TPH	2.3			
cis-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
trans-1,3-Dichloropropene	ug/m3	ND	01/04/06	TPH	2.3			
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	01/04/06	TPH	3.5			
Ethylbenzene	ug/m3	ND	01/04/06	TPH	2.2			
Hexachlorobutadiene	ug/m3	ND	01/04/06	TPH	5.3			
Methylene Chloride	ug/m3	13.	01/04/06	TPH	1.7			
Styrene	ug/m3	ND	01/04/06	TPH	2.1			
1,1,2,2-Tetrachloroethane	ug/m3	ND	01/04/06	TPH	3.4			
Tetrachloroethylene	ug/m3	ND	01/04/06	TPH	3.4			
Toluene	ug/m3	3.5	01/04/06	TPH	1.9			
1,2,4-Trichlorobenzene	ug/m3	ND	01/04/06	TPH	3.7			
1,1,1-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			
1,1,2-Trichloroethane	ug/m3	ND	01/04/06	TPH	2.7			

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1/12/2007

Purchase Order No.:

Project Number: G222
LIMS-BAT #: LIMT-02722
Job Number: G222

Project Location: FEDERAL CREOSOTE
Date Received: 12/22/2006
Field Sample # : SUMMA-121906-6

Sample ID : 06B42841
Sampled : 12/20/2006
NOT SPECIFIED

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Trichloroethylene	ug/m3	ND	01/04/06	TPH	2.7			
Trichlorofluoromethane	ug/m3	ND	01/04/06	TPH	2.8			
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	01/04/06	TPH	3.8			
1,2,4-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
1,3,5-Trimethylbenzene	ug/m3	ND	01/04/06	TPH	2.5			
Vinyl Chloride	ug/m3	ND	01/04/06	TPH	1.3			
m/p-Xylene	ug/m3	ND	01/04/06	TPH	4.3			
o-Xylene	ug/m3	ND	01/04/06	TPH	2.2			

Analytical Method:
EPA TO-14A
SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: BATCH-11744

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B42836	4-Bromofluorobenzene	Surrogate Recovery	97.00	%	70-130
06B42837	4-Bromofluorobenzene	Surrogate Recovery	95.75	%	70-130
06B42838	4-Bromofluorobenzene	Surrogate Recovery	94.00	%	70-130
06B42839	4-Bromofluorobenzene	Surrogate Recovery	95.50	%	70-130
06B42840	4-Bromofluorobenzene	Surrogate Recovery	96.88	%	70-130
06B42841	4-Bromofluorobenzene	Surrogate Recovery	95.88	%	70-130
LANK-97005	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<4.3	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	

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Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: BATCH-11744

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-97005					
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	

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Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: GC/FID-17182

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-58422					
	Benzene	Lab Fort Blank Amt.	0.082	mg	
		Lab Fort Blk. Found	0.083	mg	
		Lab Fort Blk. % Rec.	100.500	%	81.8-109.9
	Ethyl Benzene	Lab Fort Blank Amt.	0.078	mg	
		Lab Fort Blk. Found	0.080	mg	
		Lab Fort Blk. % Rec.	101.375	%	76.8-121.3
	Toluene	Lab Fort Blank Amt.	0.082	mg	
		Lab Fort Blk. Found	0.086	mg	
		Lab Fort Blk. % Rec.	104.750	%	79.1-114.8
	o-Xylene	Lab Fort Blank Amt.	0.082	mg	
		Lab Fort Blk. Found	0.080	mg	
		Lab Fort Blk. % Rec.	97.125	%	73.9-109.8
	p&m-Xylene	Lab Fort Blank Amt.	0.080	mg	
		Lab Fort Blk. Found	0.080	mg	
		Lab Fort Blk. % Rec.	100.000	%	77.7-112.8

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Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: GCMS/SEMI-9023

Sample Id	Analysis	QC Analysis	Values	Units	Limits
06B42830					
	Nitrobenzene-d5	Surrogate Recovery	100.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	43.5	%	
	Terphenyl-d14	Surrogate Recovery	90.0	%	
	Fluoranthene-d10	Surrogate Recovery	75.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	97.0	%	
06B42831					
	Nitrobenzene-d5	Surrogate Recovery	125.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	46.0	%	
	Terphenyl-d14	Surrogate Recovery	105.0	%	
	Fluoranthene-d10	Surrogate Recovery	88.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	113.0	%	
06B42832					
	Nitrobenzene-d5	Surrogate Recovery	81.5	%	
	2-Fluorobiphenyl	Surrogate Recovery	70.0	%	
	Terphenyl-d14	Surrogate Recovery	108.5	%	
	Fluoranthene-d10	Surrogate Recovery	102.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	117.0	%	
06B42833					
	Nitrobenzene-d5	Surrogate Recovery	108.5	%	
	2-Fluorobiphenyl	Surrogate Recovery	62.5	%	
	Terphenyl-d14	Surrogate Recovery	106.5	%	
	Fluoranthene-d10	Surrogate Recovery	90.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	110.0	%	
06B42834					
	Nitrobenzene-d5	Surrogate Recovery	130.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	52.0	%	
	Terphenyl-d14	Surrogate Recovery	105.0	%	
	Fluoranthene-d10	Surrogate Recovery	96.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	110.0	%	
06B42835					
	Nitrobenzene-d5	Surrogate Recovery	75.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	62.5	%	
	Terphenyl-d14	Surrogate Recovery	105.0	%	
	Fluoranthene-d10	Surrogate Recovery	90.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	105.0	%	
BLANK-97146					
	Naphthalene	Blank	<0.10	ug	
	Acenaphthene	Blank	<0.10	ug	
	Acenaphthylene	Blank	<0.10	ug	
	Anthracene	Blank	<0.10	ug	
	Benzo(a)anthracene	Blank	<0.10	ug	
	Benzo(a)pyrene	Blank	<0.10	ug	
	Benzo(b)fluoranthene	Blank	<0.10	ug	

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Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: GCMS/SEMI-9023

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-97146					
	Benzo(g,h,i)perylene	Blank	<0.10	ug	
	Chrysene	Blank	<0.10	ug	
	Dibenzo(a,h)anthracene	Blank	<0.10	ug	
	Fluoranthene	Blank	<0.10	ug	
	Fluorene	Blank	<0.10	ug	
	Indeno(1,2,3-cd)pyrene	Blank	<0.10	ug	
	2-Methylnaphthalene	Blank	<0.10	ug	
	Phenanthrene	Blank	<0.10	ug	
	Pyrene	Blank	<0.10	ug	
	Benzo(k)fluoranthene	Blank	<0.10	ug	
	1-Methylnaphthalene	Blank	<0.10	ug	
	Benzo(e)pyrene	Blank	<0.10	ug	
	Perylene	Blank	<0.10	ug	
FBLANK-58555					
	Naphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.18	ug	
		Lab Fort Blk. % Rec.	118.00	%	
	Acenaphthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.06	ug	
		Lab Fort Blk. % Rec.	106.00	%	
	Acenaphthylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.07	ug	
		Lab Fort Blk. % Rec.	107.00	%	
	Anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.21	ug	
		Lab Fort Blk. % Rec.	121.00	%	
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.36	ug	
		Lab Fort Blk. % Rec.	136.00	%	
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.91	ug	
		Lab Fort Blk. % Rec.	91.00	%	
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.20	ug	
		Lab Fort Blk. % Rec.	120.00	%	
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
		Lab Fort Blk. % Rec.	110.00	%	
	Chrysene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.14	ug	
		Lab Fort Blk. % Rec.	114.00	%	
	Dibenzo(a,h)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.39	ug	

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Method Blanks

Report Date: 1/12/2007 Lims Bat # : LIMT-02722

QC Batch Number: GCMS/SEMI-9023

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-58555					
	Dibenzo(a,h)anthracene	Lab Fort Blk. % Rec.	139.00	%	
	Fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.16	ug	
		Lab Fort Blk. % Rec.	116.00	%	
	Fluorene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.15	ug	
		Lab Fort Blk. % Rec.	115.00	%	
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.37	ug	
		Lab Fort Blk. % Rec.	137.00	%	
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.20	ug	
		Lab Fort Blk. % Rec.	120.00	%	
	Phenanthrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.00	ug	
		Lab Fort Blk. % Rec.	100.00	%	
	Pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.12	ug	
		Lab Fort Blk. % Rec.	112.00	%	
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.99	ug	
		Lab Fort Blk. % Rec.	99.00	%	
	1-Methylnaphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.30	ug	
		Lab Fort Blk. % Rec.	130.00	%	
	Benzo(e)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.26	ug	
		Lab Fort Blk. % Rec.	126.00	%	
	Perylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.23	ug	
		Lab Fort Blk. % Rec.	123.00	%	

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NOTES:

QC Batch No. : GCMS/SEMI-9023
Sample ID : 06B42830
Analysis : 2-Fluorobiphenyl

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9023
Sample ID : 06B42831
Analysis : 2-Fluorobiphenyl

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9023
Sample ID : 06B42831
Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9023
Sample ID : 06B42834
Analysis : 2-Fluorobiphenyl

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9023
Sample ID : 06B42834
Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : 1-Methylnaphthalene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Anthracene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Benzo(a)anthracene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Benzo(e)pyrene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

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QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Dibenzo(a,h)anthracene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Indeno(1,2,3-cd)pyrene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9023
Sample ID : LFBLANK-58555
Analysis : Perylene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
DADD	Standard Added (a laboratory control sample)
atrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
D Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
D Amt Measured	Matrix Spike Duplicate Amount Measured
SD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

con-test ANALYTICAL LABORATORY
39 Spruce Street
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR EPA METHOD PM-10

LIMT Number: 02722

Date Analyzed: 12/27/07
Analyst: MM

Lab ID Number: 06B42824
Client ID Number: PM10-121906-1

Volume: 1413 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	23.4	0.017

Lab ID Number: 06B42825
Client ID Number: PM10-121906-2

Volume: 1624 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	71.2	0.044

Lab ID Number: 06B42826
Client ID Number: PM10-121906-3

Volume: 1610 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	55.1	0.034

Lab ID Number: 06B42827
Client ID Number: PM10-121906-4

Volume: 1686 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	26.8	0.016

PM-10 = Particulate matter having an aerodynamic diameter less than or equal to 10 micrometers.
MG = Milligrams
MG/M3 = Milligrams per cubic meter
Method: EPA PM-10

con-test ANALYTICAL LABORATORY
39 Spruce Street
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR EPA METHOD PM-10

LIMT Number: 02722

Date Analyzed: 12/27/07
Analyst: MM

Lab ID Number: 06B42828
Client ID Number: PM10-121906-5

Volume: 1543 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	29.3	0.019

Lab ID Number: 06B42829
Client ID Number: PM10-121906-6

Volume: 801 M^3

Analyte:	Sample Results MG	Sample Results MG/M3
PM-10	31.9	0.040

PM-10 = Particulate matter having an aerodynamic diameter less than or equal to 10 micrometers.
MG = Milligrams
MG/M3 = Milligrams per cubic meter
Method: EPA PM-10

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

LIMT-02722

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: Severson
Address: 2749 Lockport Rd
Niagara Falls NY 14305
Attention: Paul Hitchcock
Project Location: Federal Creosote
Sampled By: Davis Raven / Eric Tschudi

Telephone: (800) 777 3856
Project # G222
Client PO #

DATA DELIVERY (check one):
☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax #: 716 284 1796
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes _____ proposal date
State Form Required? ☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	PM10	TO13	06B	Total Volume (m³)
	PM10-121906-1	PM121506-1	121906 1005	122006 1040		X	A	L	X		428 24/45	1413
	PM10-121906-2	PM121506-2	121906 1010	122006 1045		X	A	L	X		428 25/46	1624
	PM10-121906-3	PM121506-3	121906 1015	122006 1055		X	A	L	X		428 26/47	1610
	PM10-121906-4	PM121506-4	121906 1020	122006 1100		X	A	L	X		428 27/48	1686
	PM10-121906-5	PM121506-5	121906 1030	122006 1125		X	A	L	X		428 28/49	1543
	PM10-121906-6	PM121506-6	121906 1040	122006 1130		X	A	L	X		428 29/50	801
	Ruf-121906-1		121906 1005	122006 1040		X	A	L		X	428 30	408
	Ruf-121906-2		121906 1010	122006 1045		X	A	L		X	428 31	519

# of containers: 6 2
**Preservation: 0 0
~Cont.Code

~Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V=vial, S=summa can, T=tedlar bag, O=Other

Client Comments:

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/21/06 1800
Received by: (signature) UPS	Date/Time: 12/21/06 1800
Relinquished by: (signature)	Date/Time:
Received by: (signature) Thomas Whitehi	Date/Time: 12/22/06 10:14

Turnaround **
☐ 7-Day
☒ 10-Day
☐ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? _____
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's: _____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORREC[illegible] 'AROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWER[illegible] [illegible]UR CLIENT.

AIHA, NELA[illegible] [illegible]RE/DBE Certified

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ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

LIMT-02722

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: SEVENSON
Address: 2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305
Attention: PAUL HITCHO
Project Location: FEDERAL CREOSOTE
Sampled By: DAVIS RAVER / ERIC TSCHUDI

Telephone: (800 777 3836
Project # G222
Client PO #

DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY
☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

State Form Required?
☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab # (CAN #) Reg	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TO 13	TO 14A		OCB				Total Volume (m3)			# of containers	**Preservation	~Cont.Code
	PUF-121906-3		12/19/06 1015	12/20/06 1055		X	A	L	X			428	32			4	3	0	4		O
	PUF-121906-4		12/19/06 1020	12/20/06 1100		X	A	L	X			428	33			3	0	4	4		O
	PUF-121906-5		12/19/06 1030	12/20/06 1125		X	A	L	X			428	34			3	7	7	4		O
	PUF-121906-6		12/19/06 1040	12/20/06 1130		X	A	L	X			428	35			3	2	3	4		O
	SUMMA-121906-1	(2154) 508	12/19/06 1005	12/20/06 1040		X	A	L		X		428	36								
	SUMMA-121906-2	(CT3096) 951	12/19/06 1010	12/20/06 1045		X	A	L		X		428	37								
	SUMMA-121906-3	(CT1361) 941	12/19/06 1015	12/20/06 1055		X	A	L		X		428	38								
	SUMMA-121906-4	(CT3445) 924	12/19/06 1020	12/20/06 1100		X	A	L		X		428	39								

Client Comments

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/21/06 1800
Received by: (signature) UPS	Date/Time: 12/21/06 1800
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 12/22/06 10:14

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? _____
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's: _____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other_____
X = Na hydroxide
T = Na thiosulfate

~Cont.Code
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRE[illegible] NAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWE[illegible] OUR CLIENT.

AIHA, NEL[illegible] 'BE/DBE Certified

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

LIMT-02722

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: SEVENSON
Address: 2749 LOCKPORT ROAD
NIAGARA FALLS, NY 14305
Attention: PAUL HITCHO
Project Location: FEDERAL CROSSGATE
Sampled By: DAVIS RAVER/ERIC TSCHUDI

Telephone: (800) 777 3836
Project # G222
Client PO #

DATA DELIVERY (check one):
☐ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY
☐ OTHER

Proposal Provided? (For Billing purposes) ☐ yes _____ proposal date
State Form Required? ☐ yes ☐ no

ANALYSIS REQUESTED

Field ID	Sample Description	Lab # (CAN.#) Reg.	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	TO14A	NIOSH METHOD 5506	NIOSH METHOD 1501		OGB				Total Volume (m3)			# of containe	**Preservati	~Cont.Code
									2													
									S													
	SUMMA-121906-5	(CT1712) 927	12/19/06 1030	12/20/06 1125		X	A	L	X				428	40								
	SUMMA-121906-6	(CT4416) 507	12/19/06 1040	12/20/06 1130		X	A	L	X				428	41								
	OU3-N-121906-A		12/20/06 0800	12/20/06 1600		X	A	L		X			428	42			4	8	0			
	OU3-N-121906-AA		12/20/06 0800	12/20/06 1600		X	A	L		X			428	43			4	8	0			
	OU3-N-121906-B		12/20/06 0800	12/20/06 1600		X	A	L			X		428	44				4	8			

Client Comment

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/21/06 1800	
Received by: (signature) UPS	Date/Time: 12/21/06 1800	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 12/22/06 10:14	

Turnaround **
☐ 7-Day
☒ 10-Day
☐ Other ____
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? _____
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's: _____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

****Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other_____
X = Na hydroxide
T = Na thiosulfate

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORR[illegible] 'RNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSW[illegible] 'Y OUR CLIENT.

AIHA, NE[illegible] WBE/DBE Certifie

Air Monitoring Report

Federal Creosote Superfund Site

Section 4

Log Book Entries and Calibration Sheets

SOKKIA

CROSS-SECTION BOOK

FEDERAL CREOSOTE

AIR SAMPLING LOG BOOK

SIEMENSON ENVIRONMENTAL SERVICES, INC.
FEDERAL CREOSOTE SUPERFUND SITE
FOURTH QUARTER 2006 AIR SAMPLING EVENT

FOURTH QUARTER 2006

PM 10

LOCATION	FILTER	ETI START	ETI STOP	TIME START	TIME STOP	CHART START (CFM)	CHART STOP (CFM)	CHART AVE. (CFM)	HOURS TOTAL
NORTH #1	PM 121506-1	1719.53	1744.16	1005	1040	41	41	41	24.63
EAST #2	121506-2	1663.45	1688.07	1010	1045	39	36	37.5	24.62
SOUTH #3	121506-3	1628.82	1653.04	1015	1055	38	36	37	24.72
WEST #4	121506-4	1719.52	1744.25	1020	1100	40	40	40	24.73
(19 CLA) BKG #5	121506-5	163.77	188.59	1030	1125	38	38	38	24.82
(48 VAL) PAP #6	121506-6	872.13	896.95	1040	1130	38	38	38	24.82

FOURTH QUARTER 2004

FOURTH QUARTER 2004

PUF (TO13)

LOCATION	FILTER	ETI START	ETI STOP	TIME START	TIME STOP	MAG START	MAG STOP	MAG AVE.	TOTAL HOURS
NORTH #1	121906-1	1719.25	1743.80 ~~1744.16~~	1005	1040	58	52	54	24.55
EAST #2	121906-2	1718.85	1745.48 ~~1688.17~~	1010	1045	40	40	40	24.63
SOUTH #3	121906-3	1720.28	1745.01 ~~1653.04~~	1015	1055	60	56	58	24.73
WEST #4	121906-4	1718.99	1735.71 ~~1744.25~~	1020	1100	42	40	41	24.72
(19CLA) BKG #5	121906-5	83.52	108.34 ~~188.65~~	1030	1125	48	48	48	24.82
(48VAL) PAP #6	121906-6	864.29	889.11	1040	1130	40	40	40	24.82

FOURTH QUARTER 2006

SUMMA

LOCATION	CANISTER	TIME START	TIME STOP	TAG/CAN#	REG#
NORTH #1		1005	1040	CT 2154	508
EAST #2		1010	1045	CT 3096	951
SOUTH #3		1015	1055	CT 1361	941
WEST #4		1020	1100	CT 3448	924
(IACLA) BKG #5		1030	1125	CT 1712	927
(HBVAL) PAP #6		1040	1130	CT 4416	507

FOURTH QUARTER 2

NOTES

WEATHER CONDITIONS

TEMP HIGH: 55°F
LOW: 21°F
AVE: 38°F

BAROMETRIC PRESSURE
HIGH: 30.27
LOW: 30.41
AVE: 30.34

SAMPLING CONDUCTED BY:
ERIC TSCHUDI
DAVIS QAUER

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->	North #1	Date->	12/19/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.18	Corrected Pressure (mm Hg)	767
Temperature (deg F)	38	Temperature (deg K)	276
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	35	Seasonal Temp. (deg K)	275

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2004

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	4.20	1.258	46.0	27.62	Slope (m) =	19.4277
2	4.00	1.227	45.5	27.32	Intercept (b) =	3.368
3	3.60	1.164	43.5	26.12	Corr. coeff (r).=	0.999
4	3.00	1.063	40.0	24.02	SFR (m3/min) =	1.130
5	2.20	0.910	35.0	21.01	SSP =	42.18

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->	East #2	Date->	11/13/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2004

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	4.80	1.391	41.0	25.47	Slope (m) =	19.5833
2	4.60	1.362	40.5	25.16	Intercept (b) =	-1.469
3	4.40	1.332	40.0	24.85	Corr. coeff (r).=	0.998
4	4.00	1.270	38.0	23.61	SFR (m3/min) =	1.152
5	2.40	0.984	28.5	17.71	SSP =	33.94

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->	South #3	Date->	11/13/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2004

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	5.60	1.503	46.0	28.58	Slope (m) =	20.5042
2	5.20	1.448	44.0	27.34	Intercept (b) =	-2.456
3	4.60	1.362	40.5	25.16	Corr. coeff (r).=	0.997
4	3.80	1.238	36.5	22.68	SFR (m3/min) =	1.152
5	2.80	1.063	31.5	19.57	SSP =	34.06

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->	West #4	Date->	11/13/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2004

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	4.20	1.301	40.5	25.16	Slope (m) =	22.3615
2	3.60	1.205	36.5	22.68	Intercept (b) =	-4.002
3	3.20	1.136	35.0	21.74	Corr. coeff (r) =	0.995
4	2.80	1.063	31.5	19.57	SFR (m3/min) =	1.152
5	2.60	1.024	30.5	18.95	SSP =	35.01

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

BKG (GTR 1-06)

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->		Date->	11/13/2005
Sampler->	#234	Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2004

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	3.80	1.238	40.5	25.16	Slope (m) =	22.5526
2	3.60	1.205	38.5	23.92	Intercept (b) =	-3.035
3	3.20	1.136	36.0	22.37	Corr. coeff (r).=	0.990
4	3.00	1.100	35.0	21.74	SFR (m3/min) =	1.152
5	2.80	1.063	34.0	21.12	SSP =	36.93

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

Sevenson Environmental Services, Inc.
PM10 High Volume Sampler Calibrartion

SITE

Location->		Date->	05/21/2006
Sampler->	#241	Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qa Slope->	0.97850
Model->	TE-5028A	Qa Intercept->	-0.00025
Serial#->	187	Date Certified->	06/13/2005

Plate or Test #	H2O (in)	CALIBRATION Qa (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	7.00	1.680	54.5	33.86	Slope (m) =	11.9835
2	8.00	1.796	57.5	35.72	Intercept (b) =	13.884
3	8.50	1.851	58.0	36.03	Corr. coeff (r).=	0.990
4	9.00	1.905	59.0	36.65	SFR (m3/min) =	1.152
5	9.50	1.957	60.0	37.28	SSP =	44.56

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

NOTE:
Qa must be 1.02 to 1.24 m3/min on three or more readings

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->	North #1	Date->	11/14/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

Plate or Test #	H2O (in)	CALIBRATION Qstd (m3/min)	I (chart)	FLOW (corrected)	LINEAR REGRESSION	
1	7.60	0.303	80.0	9.02	Slope(m) =	35.1878
2	6.80	0.287	70.0	8.43	Intercept(b) =	-1.7174
3	6.20	0.274	60.0	7.81	Corr. coeff(r).=	0.9924
4	5.40	0.256	50.0	7.13	SFR =	1.152
5	4.20	0.226	40.0	6.37	SSP =	62.47

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	35.1878	
Intercept =	-1.7174	
Coeff =	0.9924	(>0.990)
SFR =	1.152	m3/min
SSP =	62.47	

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->	East #2	Date->	11/14/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	60	Temperature (deg K)	289
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

CALIBRATION

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	FLOW (corrected)
1	7.80	0.309	80.0	9.10
2	6.80	0.289	70.0	8.51
3	6.20	0.276	60.0	7.88
4	5.60	0.263	50.0	7.20
5	4.40	0.234	40.0	6.44

LINEAR REGRESSION

Slope(m) =	36.6617
Intercept(b) =	-2.2338
Corr. coeff(r).=	0.9914
SFR =	1.130
SSP =	63.69

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	36.6617	
Intercept =	-2.2338	
Coeff =	0.9914	(>0.990)
SFR =	1.130	m3/min
SSP =	63.69	

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->	South #3	Date->	11/14/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

Plate or Test #	H2O (in)	CALIBRATION Qstd (m3/min)	I (chart)	FLOW (corrected)	LINEAR REGRESSION	
1	8.00	0.310	80.0	9.02	Slope(m) =	31.0320
2	7.20	0.295	70.0	8.43	Intercept(b) =	-0.6686
3	6.20	0.274	60.0	7.81	Corr. coeff(r).=	0.9994
4	5.20	0.251	50.0	7.13	SFR =	1.152
5	4.20	0.226	40.0	6.37	SSP =	56.45

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	31.0320	
Intercept =	-0.6686	
Coeff =	0.9994	(>0.990)
SFR =	1.152	m3/min
SSP =	56.45	

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->	West #4	Date->	11/14/2005
Sampler->		Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

CALIBRATION

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	FLOW (corrected)
1	5.00	0.261	80.0	9.02
2	4.80	0.242	70.0	8.43
3	4.40	0.232	60.0	7.81
4	3.60	0.210	50.0	7.13
5	2.80	0.186	40.0	6.37

LINEAR REGRESSION

Slope(m) =	35.8698
Intercept(b) =	-0.3506
Corr. coeff(r).=	0.9951
SFR =	1.152
SSP =	65.93

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	35.8698	
Intercept =	-0.3506	
Coeff =	0.9951	(>0.990)
SFR =	1.152	m3/min
SSP =	65.93	

BKG (15th+20th)

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->		Date->	11/14/2005
Sampler->	#731	Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	60	Temperature (deg K)	289
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

CALIBRATION

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	FLOW (corrected)	LINEAR REGRESSION	
1	7.20	0.298	80.0	9.10	Slope(m) =	33.6315
2	6.40	0.281	70.0	8.51	Intercept(b) =	-0.9371
3	5.60	0.263	60.0	7.88	Corr. coeff(r).=	0.9989
4	4.80	0.244	50.0	7.20	SFR =	1.130
5	3.80	0.218	40.0	6.44	SSP =	60.23

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	33.6315	
Intercept =	-0.9371	
Coeff =	0.9989	(>0.990)
SFR =	1.130	m3/min
SSP =	60.23	

PAP (1stQtr 2006)

Sevenson Environmental Services, Inc.
PUF High Volume Sampler Calibrartion

SITE

Location->		Date->	11/14/2005
Sampler->	#727	Tech->	DR

CONDITIONS

Sampler Elevation (feet)	0		
Sea Level Pressure (in Hg)	30.00	Corrected Pressure (mm Hg)	762
Temperature (deg F)	70	Temperature (deg K)	294
Seasonal SL Press. (in Hg)	30.00	Corrected Seasonal (mm Hg)	762
Seasonal Temp. (deg F)	60	Seasonal Temp. (deg K)	289

CALIBRATION ORIFICE

Make->	Tisch	Qstd Slope->	9.33755
Model->	TE-40A	Qstd Intercept->	-0.04777
Serial#->	0442	Date Certified->	06/13/2005

CALIBRATION

Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	FLOW (corrected)
1	4.60	0.237	60.0	7.81
2	4.00	0.221	50.0	7.13
3	3.40	0.204	40.0	6.37
4	2.40	0.172	30.0	5.52
5	1.40	0.133	20.0	4.51

LINEAR REGRESSION

Slope(m) =	31.1710
Intercept(b) =	0.2392
Corr. coeff(r).=	0.9916
SFR =	1.152
SSP =	58.17

CALCULATIONS

Qa = 1/m(Sqrt((H2O)(Ta/Pa))-b)
IC = I(Sqrt(Ta/Pa))

Qa = standard flow rate
IC = corrected chart response
I = actual chart responce
m = calibrator Qa slope
b = calibrator Qa intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)

SFR = 1.13(Ps/Pa)(Ta/Ts)
SSP = (m*SFR+b)(Sqrt(Pa/Ta))

SFR = sampler set point flow rate
SSP = sampler chart set point
m = sampler slope
b = sampler intercept
Ta = actual temperature (deg K)
Pa = actual pressure (mm Hg)
Ts = seasonal temperature (deg K)
Ps = seasonal pressure (mm Hg)

For subsequent calculation of sampler flow:
1/m((I)(Sqrt(Tav/Pav))-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

Slope =	31.1710	
Intercept =	0.2392	
Coeff =	0.9916	(>0.990)
SFR =	1.152	m3/min
SSP =	58.17	