



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38406.24
Sample Tag: 111763-SW-A-07-05
Collected Date/Time: 09/30/2008 14:23
Matrix: Soil
COC Reference: 51095

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	3.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/01/08 12:00	BJR		



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

51094

PORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CT NAME: Marisa Patterson
WT: Stantec
ISA: 2321 Club Meridian Dr., Ste E
Okemos STATE: MI ZIP CODE: 48864
P.O. NO.:
FAX NO.: (517) 349-6863
ADDRESS: crisp.patterson@stantec.com
QUOTE NO.: 080915-01

CONTACT NAME: SAME
COMPANY:
ADDRESS:
CITY:
STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

CT NO./NAME: Smith Canyon
SAMPLER(S): PLEASE PRINT/SIGN TIME: Low Boone / [Signature]
IAROUND TIME REQUIRED: ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
/ERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

IX: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SO-SOLID
E: SL-SLUDGE O-OIL A-AIR W-WASTE M-MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

ERIT IB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO ₃	H ₂ SO ₄	HClO ₄	H ₂ O ₂	H ₂ CO ₃	H ₂ PO ₄	H ₂ PO ₃	H ₂ PO ₂	H ₂ PO ₁	H ₂ PO ₀	OTHER	SPECIAL INSTRUCTIONS/NOTES	
	DATE	TIME																		
38406.01	9/30/08	1218	111763-EF-A-05	S	2	X														
.02		1223	-B-05			X														
.03		1228	-A-07			X														
.04		1230	-B-07			X														
.05		1235	-A-09			X														
.06		1238	-B-09			X														
.07		1242	-A-11			X														
.08	✓	1245	-B-11			X														HOLD
.09		1257	111763-SW-C-01-05			X														
.10		1259	-C-03-05			X														
.11		1302	-C-05-05			X														
.12	✓	1307	-C-07-05			X														HOLD

TURNED BY: [Signature] DATE: 9/30/08 TIME: 1800
TURNED BY: DATE: TIME:
TURNED BY: DATE: TIME:
TURNED BY: DATE: TIME:

RELINQUISHED BY: [Signature] DATE: 10-1-08 TIME: 1020
RECEIVED BY: [Signature] DATE: TIME:
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS: [Signature] NOTES: TEMP. ON ARRIVAL 39
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS:

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

51095

PORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CLIENT NAME
Marisa Patterson
JNY
Stantec
SS
2321 Club Meridian Dr., Ste E
ADDRESS
Okemos
STATE
MI ZIP CODE
48864
PHONE NO.
(517) 349-9499 FAX NO.
(517) 349-6863
QUOTE NO.
080915-01

CONTACT NAME
Marisa Patterson
COMPANY
Stantec
ADDRESS
2321 Club Meridian Dr., Ste E
CITY
Okemos STATE
MI ZIP CODE
48864
PHONE NO.
(517) 349-9499 FAX NO.
(517) 349-6863

CT NO. NAME
South Canyon
SAMPLES PLEASE PRINT SIGNATURE
Lew Boone
AROUND TIME REQUIRED ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
TERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

IX GW-GROUNDWATER WY-WASTEWATER S-SOIL L-LIQUID SD-SOLID
E SL-SLUDGE O-OIL A-AIR W-WASTE M-MISC

# Containers & Preservatives										SPECIAL INSTRUCTIONS/NOTES
HCL	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	TDH (600 PPD, 500, 500)	Conductivity (20.1)	pH (9.0-5.0)	SAR (20.1)	Metals (As, Ba, B, Br, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn)
						X	X	X	X	
						X	X	X	X	
										HOLD
										HOLD
						X	X	X	X	
						X	X	X	X	
										HOLD
										HOLD
						X	X	X	X	
						X	X	X	X	
										HOLD
										HOLD

URGENT BY: Lew Boone - Stantec DATE 9/3/08 TIME 1800
TO BY: Stantec DATE 9/3/08 TIME 1800
URGENT BY: Stantec DATE 9/3/08 TIME 1800
TO BY: Stantec DATE 9/3/08 TIME 1800

RELINQUISHED BY: Stantec DATE 9/3/08 TIME 1800
RECEIVED BY: Stantec DATE 9/3/08 TIME 1800
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS Stantec NOTES: TEMP. ON ARRIVAL 3.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

51094

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Marisa Patterson
COMPANY Stantec
ADDRESS 2321 Club Meridian Dr., Ste E
CITY Okemos STATE MI ZIP CODE 48864
PHONE NO. (517) 349-9499 FAX NO. (517) 349-6863 P.O. NO.
E-MAIL ADDRESS marisa.patterson@stantec.com QUOTE NO. 080915-01

CONTACT NAME
COMPANY
ADDRESS
CITY
PHONE NO. FAX NO. P.O. NO.
STATE ZIP CODE

PROJECT NO./NAME South Canyon SAMPLER(S) - PLEASE PRINT NAME Law Boone / Boone
TURNAROUND TIME REQUIRED ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	H2O2	OTHER	TPH	Conductivity (µS/cm)	pH (9at5c)	SAR (200)	Metals (As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn)	6020A/7471A
	DATE	TIME																	
	9/30/08	1218	111763-EF-A-05		S	2	X							X	X	X	X	X	
		1223	-B-05				X							X	X	X	X		
		1228	-A-07				X							X	X	X	X		
		1230	-B-07				X							X	X	X	X		
		1235	-A-09				X							X	X	X	X		
		1238	-B-09				X							X	X	X	X		
		1242	-A-11				X							X	X	X	X		
		1245	-B-11				X							X	X	X	X		
		1257	111763-SW-C-01-05				X							X	X	X	X		
		1259	-C-03-05				X							X	X	X	X		
		1302	-C-05-05				X							X	X	X	X		
		1307	-C-07-05				X							X	X	X	X		

RELINQUISHED BY: Boone DATE 9/30/08 TIME 1800
RECEIVED BY: SIGNATURE/ORGANIZATION
RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION DATE TIME
SEAL NO. SEAL INTACT YES/NO INITIALS
SEAL NO. SEAL INTACT YES/NO INITIALS
NOTES: TEMP. ON ARRIVAL

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Marisa Patterson
COMPANY: Stantec
ADDRESS: 2321 Club Meridian Dr., Ste E
CITY: Olema STATE: MI ZIP CODE: 4884
PHONE NO.: (517) 349-9499 FAX NO.: (517) 349-6863 P.O. NO.:
E-MAIL ADDRESS: marisa.patterson@stantec.com QUOTE NO.: 080915-01

CONTACT NAME: _____ SAME
COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP CODE: _____
PHONE NO.: _____ FAX NO.: _____ P.O. NO.: _____

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: South Canyon SAMPLE(S) - PLEASE PRINT SIGNATURE: Lew Boone
TURNAROUND TIME REQUIRED: ☒ 124 HR ☒ 48 HR ☐ 172 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE:	GW-GROUNDWATER SL-SLUDGE	WW-WASTEWATER O-OIL	S-SOIL A-AIR	L-LIQUID W-WASTE	SD-SOLID M-MISC	# Containers & Preservatives	TDH (600 VPO, OK)	Conductivity (20.1)	pH (9.0-5.0)	SAR (20.0)	Metals (As, Ba, B, Ca, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn)	600A / 7471A	SPECIAL INSTRUCTIONS/NOTES
MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	MOVIE	HCL	HNO3	H2SO4	NaOH	NaOH	OTHER
		09/30/08	1317	111763-SW-B-01-05	S	2	X						
			1320	- B-03-05			X						
			1325	- B-05-05			X						
			1327	- B-07-05			X						
			1349	- D-01-05			X						
			1353	- D-03-05			X						
			1357	- D-05-05			X						
			1400	- D-07-05			X						
			1414	- A-01-05			X						
			1417	- A-03-05			X						
			1420	- A-05-05			X						
			1423	- A-07-05			X						

RELINQUISHED BY: SIGNATURE/ORGANIZATION: <u>Lew Boone - Stantec</u>	DATE: <u>9/30/08</u> TIME: <u>1800</u>	RELINQUISHED BY: SIGNATURE/ORGANIZATION: _____	DATE: _____ TIME: _____
RECEIVED BY: SIGNATURE/ORGANIZATION: _____	DATE: _____ TIME: _____	RECEIVED BY: SIGNATURE/ORGANIZATION: _____	DATE: _____ TIME: _____
RELINQUISHED BY: SIGNATURE/ORGANIZATION: _____	DATE: _____ TIME: _____	SEAL NO. _____ SEAL INTACT YES NO	INITIALS _____ NOTES: TEMP. ON ARRIVAL
RECEIVED BY: SIGNATURE/ORGANIZATION: _____	DATE: _____ TIME: _____	SEAL NO. _____ SEAL INTACT YES NO	INITIALS _____



Analytical Laboratory Report

Supplemental Report

Report ID: S38442.01(02)
Generated on 10/13/2008
Replaces report S38442.01(01) generated on 10/06/2008

Report to

Attention: Marisa Patterson
Stantec
2321 Club Meridian Dr. #E
Okemos, MI 48864-4505
MSA# 94023

Phone: 517-349-9499 FAX: 517-349-6863
Email: marisa.patterson@stantec.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S38442.01-S38442.28
Project: South Canyon
Collected Date: 09/30/2008 - 10/01/2008
Submitted Date/Time: 10/02/2008 10:40
Sampled by: LF Boone
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
""Not detected"" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (28 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S38442.01	111762-EF-A-07	Soil	09/30/2008 15:35
S38442.02	111762-EF-B-07	Soil	09/30/2008 15:38
S38442.03	111762-EF-A-09	Soil	09/30/2008 15:48
S38442.04	111762-EF-B-09	Soil	09/30/2008 15:50
S38442.05	111762-EF-A-11	Soil	09/30/2008 15:55
S38442.06	111762-EF-B-11	Soil	09/30/2008 15:57
S38442.07	111762-EF-A-13	Soil	09/30/2008 16:00
S38442.08	111762-EF-B-13	Soil	09/30/2008 16:03
S38442.09	111762-SW-D-01-07	Soil	09/30/2008 16:37
S38442.10	111762-SW-D-03-07	Soil	09/30/2008 16:40
S38442.11	111762-SW-D-05-07	Soil	09/30/2008 16:44
S38442.12	111762-SW-D-07-07	Soil	09/30/2008 16:48
S38442.13	111762-SW-A-01-07	Soil	09/30/2008 17:00
S38442.14	111762-SW-A-03-07	Soil	09/30/2008 17:03
S38442.15	111762-SW-A-05-07	Soil	09/30/2008 17:05
S38442.16	111762-SW-A-07-07	Soil	09/30/2008 17:08
S38442.17	111762-SW-C-01-07	Soil	10/01/2008 09:07
S38442.18	111762-SW-C-03-07	Soil	10/01/2008 09:10
S38442.19	111762-SW-C-05-07	Soil	10/01/2008 09:23
S38442.20	111762-SW-C-07-07	Soil	10/01/2008 09:28
S38442.21	111762-B-06	Soil	10/01/2008 10:10
S38442.22	111763-B-06	Soil	10/01/2008 10:30
S38442.23	111762-SW-B-01-07	Soil	10/01/2008 13:25
S38442.24	111762-SW-B-03-07	Soil	10/01/2008 13:30
S38442.25	111760-B-07	Soil	10/01/2008 11:25
S38442.26	111761-B-07	Soil	10/01/2008 11:45
S38442.27	111762-SW-B-05-07	Soil	10/01/2008 13:35
S38442.28	111762-SW-B-07-07	Soil	10/01/2008 13:40



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.01
Sample Tag: 111762-EF-A-07
Collected Date/Time: 09/30/2008 15:35
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.02
Sample Tag: 111762-EF-B-07
Collected Date/Time: 09/30/2008 15:38
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.03
Sample Tag: 111762-EF-A-09
Collected Date/Time: 09/30/2008 15:48
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	765	umhos/cm		120.1	10/03/08 11:40	JKB		
pH	8.22	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	89	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.14			20B	10/03/08 14:50	BJR		
Arsenic	1.47	mg/kg	0.10	6020	10/02/08 14:26	SLS	7440-38-2	
Barium	73.9	mg/kg	1.0	6020	10/02/08 14:26	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 14:26	SLS	7440-42-8	
Cadmium	0.30	mg/kg	0.20	6020	10/02/08 14:26	SLS	7440-43-9	
Chromium	1.5	mg/kg	1.0	6020	10/02/08 14:26	SLS	7440-47-3	
Copper	11.5	mg/kg	1.0	6020	10/02/08 14:26	SLS	7440-50-8	
Lead	12.6	mg/kg	0.50	6020	10/02/08 14:26	SLS	7439-92-1	
Mercury	0.065	mg/kg	0.050	7471A	10/02/08 16:05	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:26	SLS	7439-98-7	
Nickel	6.2	mg/kg	1.0	6020	10/02/08 14:26	SLS	7440-02-0	
Selenium	0.29	mg/kg	0.20	6020	10/02/08 14:26	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:26	SLS	7440-22-4	
Zinc	47.9	mg/kg	1.0	6020	10/02/08 14:26	SLS	7440-66-6	
Calcium	54.8	mg/L	1.0	200.8	10/03/08 13:10	PER	7440-70-2	
Magnesium	9.74	mg/L	0.20	200.8	10/03/08 13:10	PER	7439-95-4	
Sodium	35.0	mg/L	0.20	200.8	10/03/08 13:10	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,700,000	ug/kg	100,000	8015B	10/02/08 15:44	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 15:44	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	10,000,000	ug/kg	1,000,000	8015M	10/02/08 18:36	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.04
Sample Tag: 111762-EF-B-09
Collected Date/Time: 09/30/2008 15:50
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	650	umhos/cm		120.1	10/03/08 11:45	JKB		
pH	8.61	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	89	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.85			20B	10/03/08 14:50	BJR		
Arsenic	1.68	mg/kg	0.10	6020	10/02/08 14:31	SLS	7440-38-2	
Barium	103	mg/kg	1.0	6020	10/02/08 14:31	SLS	7440-39-3	
Boron	2.59	mg/kg	2.0	6020	10/02/08 14:31	SLS	7440-42-8	
Cadmium	0.35	mg/kg	0.20	6020	10/02/08 14:31	SLS	7440-43-9	
Chromium	1.6	mg/kg	1.0	6020	10/02/08 14:31	SLS	7440-47-3	
Copper	9.5	mg/kg	1.0	6020	10/02/08 14:31	SLS	7440-50-8	
Lead	12.2	mg/kg	0.50	6020	10/02/08 14:31	SLS	7439-92-1	
Mercury	0.316	mg/kg	0.050	7471A	10/02/08 16:07	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:31	SLS	7439-98-7	
Nickel	7.7	mg/kg	1.0	6020	10/02/08 14:31	SLS	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	10/02/08 14:31	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:31	SLS	7440-22-4	
Zinc	45.6	mg/kg	1.0	6020	10/02/08 14:31	SLS	7440-66-6	
Calcium	44.1	mg/L	1.0	200.8	10/03/08 13:12	PER	7440-70-2	
Magnesium	10.1	mg/L	0.20	200.8	10/03/08 13:12	PER	7439-95-4	
Sodium	52.4	mg/L	0.20	200.8	10/03/08 13:12	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	2,300,000	ug/kg	100,000	8015B	10/02/08 16:05	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 16:05	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	14,000,000	ug/kg	1,000,000	8015M	10/02/08 18:54	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.05
Sample Tag: 111762-EF-A-11
Collected Date/Time: 09/30/2008 15:55
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.06
Sample Tag: 111762-EF-B-11
Collected Date/Time: 09/30/2008 15:57
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.07
Sample Tag: 111762-EF-A-13
Collected Date/Time: 09/30/2008 16:00
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,050	umhos/cm		120.1	10/03/08 11:50	JKB		
pH	7.68	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	85	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	0.988			20B	10/03/08 14:50	BJR		
Arsenic	2.28	mg/kg	0.10	6020	10/02/08 14:35	SLS	7440-38-2	
Barium	76.7	mg/kg	1.0	6020	10/02/08 14:35	SLS	7440-39-3	
Boron	2.28	mg/kg	2.0	6020	10/02/08 14:35	SLS	7440-42-8	
Cadmium	0.36	mg/kg	0.20	6020	10/02/08 14:35	SLS	7440-43-9	
Chromium	1.7	mg/kg	1.0	6020	10/02/08 14:35	SLS	7440-47-3	
Copper	12.0	mg/kg	1.0	6020	10/02/08 14:35	SLS	7440-50-8	
Lead	12.8	mg/kg	0.50	6020	10/02/08 14:35	SLS	7439-92-1	
Mercury	0.061	mg/kg	0.050	7471A	10/02/08 16:09	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:35	SLS	7439-98-7	
Nickel	6.8	mg/kg	1.0	6020	10/02/08 14:35	SLS	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	10/02/08 14:35	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:35	SLS	7440-22-4	
Zinc	48.1	mg/kg	1.0	6020	10/02/08 14:35	SLS	7440-66-6	
Calcium	49.3	mg/L	1.0	200.8	10/03/08 13:13	PER	7440-70-2	
Magnesium	12.7	mg/L	0.20	200.8	10/03/08 13:13	PER	7439-95-4	
Sodium	30.1	mg/L	0.20	200.8	10/03/08 13:13	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	2,700,000	ug/kg	100,000	8015B	10/02/08 16:27	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 16:27	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	19,000,000	ug/kg	1,000,000	8015M	10/02/08 19:12	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.08
Sample Tag: 111762-EF-B-13
Collected Date/Time: 09/30/2008 16:03
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	755	umhos/cm		120.1	10/03/08 11:55	JKB		
pH	7.27	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	84	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	0.988			20B	10/03/08 14:50	BJR		
Arsenic	2.82	mg/kg	0.10	6020	10/02/08 14:39	SLS	7440-38-2	
Barium	79.1	mg/kg	1.0	6020	10/02/08 14:39	SLS	7440-39-3	
Boron	2.03	mg/kg	2.0	6020	10/02/08 14:39	SLS	7440-42-8	
Cadmium	0.23	mg/kg	0.20	6020	10/02/08 14:39	SLS	7440-43-9	
Chromium	1.4	mg/kg	1.0	6020	10/02/08 14:39	SLS	7440-47-3	
Copper	10.4	mg/kg	1.0	6020	10/02/08 14:39	SLS	7440-50-8	
Lead	10.0	mg/kg	0.50	6020	10/02/08 14:39	SLS	7439-92-1	
Mercury	0.086	mg/kg	0.050	7471A	10/02/08 16:11	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:39	SLS	7439-98-7	
Nickel	12.8	mg/kg	1.0	6020	10/02/08 14:39	SLS	7440-02-0	
Selenium	0.23	mg/kg	0.20	6020	10/02/08 14:39	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:39	SLS	7440-22-4	
Zinc	35.6	mg/kg	1.0	6020	10/02/08 14:39	SLS	7440-66-6	
Calcium	45.3	mg/L	1.0	200.8	10/03/08 13:15	PER	7440-70-2	
Magnesium	17.8	mg/L	0.20	200.8	10/03/08 13:15	PER	7439-95-4	
Sodium	31.0	mg/L	0.20	200.8	10/03/08 13:15	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	4,600,000	ug/kg	200,000	8015B	10/03/08 13:09	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	200,000	8015M	10/03/08 13:09	ARH		XY

Organics - Volatiles

TPH GRO (C6-C10)	11,000,000	ug/kg	1,000,000	8015M	10/02/08 19:30	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.09
Sample Tag: 111762-SW-D-01-07
Collected Date/Time: 09/30/2008 16:37
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.10
Sample Tag: 111762-SW-D-03-07
Collected Date/Time: 09/30/2008 16:40
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,530	umhos/cm		120.1	10/03/08 12:00	JKB		
pH	7.97	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	79	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.70			20B	10/03/08 14:50	BJR		
Arsenic	3.55	mg/kg	0.10	6020	10/02/08 14:44	SLS	7440-38-2	
Barium	50.5	mg/kg	1.0	6020	10/02/08 14:44	SLS	7440-39-3	
Boron	2.42	mg/kg	2.0	6020	10/02/08 14:44	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 14:44	SLS	7440-43-9	
Chromium	1.2	mg/kg	1.0	6020	10/02/08 14:44	SLS	7440-47-3	
Copper	8.7	mg/kg	1.0	6020	10/02/08 14:44	SLS	7440-50-8	
Lead	11.8	mg/kg	0.50	6020	10/02/08 14:44	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:13	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:44	SLS	7439-98-7	
Nickel	7.3	mg/kg	1.0	6020	10/02/08 14:44	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 14:44	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:44	SLS	7440-22-4	
Zinc	31.9	mg/kg	1.0	6020	10/02/08 14:44	SLS	7440-66-6	
Calcium	220	mg/L	1.0	200.8	10/03/08 13:16	PER	7440-70-2	
Magnesium	229	mg/L	0.20	200.8	10/03/08 13:16	PER	7439-95-4	
Sodium	151	mg/L	0.20	200.8	10/03/08 13:16	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	8,600,000	ug/kg	400,000	8015B	10/03/08 13:30	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	400,000	8015M	10/03/08 13:30	ARH		XY

Organics - Volatiles

TPH GRO (C6-C10)	15,000,000	ug/kg	2,000,000	8015M	10/02/08 19:49	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.11
Sample Tag: 111762-SW-D-05-07
Collected Date/Time: 09/30/2008 16:44
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.12
Sample Tag: 111762-SW-D-07-07
Collected Date/Time: 09/30/2008 16:48
Matrix: Soil
COC Reference: 51096

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,310	umhos/cm		120.1	10/03/08 12:05	JKB		
pH	8.51	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	89	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.86			20B	10/03/08 14:50	BJR		
Arsenic	1.44	mg/kg	0.10	6020	10/02/08 14:48	SLS	7440-38-2	
Barium	110	mg/kg	1.0	6020	10/02/08 14:48	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 14:48	SLS	7440-42-8	
Cadmium	0.27	mg/kg	0.20	6020	10/02/08 14:48	SLS	7440-43-9	
Chromium	1.4	mg/kg	1.0	6020	10/02/08 14:48	SLS	7440-47-3	
Copper	9.6	mg/kg	1.0	6020	10/02/08 14:48	SLS	7440-50-8	
Lead	9.11	mg/kg	0.50	6020	10/02/08 14:48	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:15	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:48	SLS	7439-98-7	
Nickel	11.4	mg/kg	1.0	6020	10/02/08 14:48	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 14:48	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:48	SLS	7440-22-4	
Zinc	25.3	mg/kg	1.0	6020	10/02/08 14:48	SLS	7440-66-6	
Calcium	73.9	mg/L	1.0	200.8	10/03/08 13:18	PER	7440-70-2	
Magnesium	64.0	mg/L	0.20	200.8	10/03/08 13:18	PER	7439-95-4	
Sodium	90.6	mg/L	0.20	200.8	10/03/08 13:18	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	2,700,000	ug/kg	100,000	8015B	10/02/08 17:30	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 17:30	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	10,000,000	ug/kg	1,000,000	8015M	10/02/08 20:07	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.13
Sample Tag: 111762-SW-A-01-07
Collected Date/Time: 09/30/2008 17:00
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.14
Sample Tag: 111762-SW-A-03-07
Collected Date/Time: 09/30/2008 17:03
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,300	umhos/cm		120.1	10/03/08 12:10	JKB		
pH	8.47	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	82	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.18			20B	10/03/08 14:50	BJR		
Arsenic	4.45	mg/kg	0.10	6020	10/02/08 14:52	SLS	7440-38-2	
Barium	92.6	mg/kg	1.0	6020	10/02/08 14:52	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 14:52	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 14:52	SLS	7440-43-9	
Chromium	1.4	mg/kg	1.0	6020	10/02/08 14:52	SLS	7440-47-3	
Copper	9.4	mg/kg	1.0	6020	10/02/08 14:52	SLS	7440-50-8	
Lead	15.7	mg/kg	0.50	6020	10/02/08 14:52	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:16	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:52	SLS	7439-98-7	
Nickel	8.3	mg/kg	1.0	6020	10/02/08 14:52	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 14:52	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:52	SLS	7440-22-4	
Zinc	37.5	mg/kg	1.0	6020	10/02/08 14:52	SLS	7440-66-6	
Calcium	350	mg/L	1.0	200.8	10/03/08 13:19	PER	7440-70-2	
Magnesium	83.5	mg/L	0.20	200.8	10/03/08 13:19	PER	7439-95-4	
Sodium	94.3	mg/L	0.20	200.8	10/03/08 13:19	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	4,900,000	ug/kg	200,000	8015B	10/03/08 13:51	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	200,000	8015M	10/03/08 13:51	ARH		XY

Organics - Volatiles

TPH GRO (C6-C10)	12,000,000	ug/kg	1,000,000	8015M	10/02/08 20:25	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.15
Sample Tag: 111762-SW-A-05-07
Collected Date/Time: 09/30/2008 17:05
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.16
Sample Tag: 111762-SW-A-07-07
Collected Date/Time: 09/30/2008 17:08
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Metal Digestion (Replicate 01)	Completed			3015A	10/10/08 12:00	SLS		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	3,240	umhos/cm		120.1	10/03/08 12:15	JKB		
pH	7.89	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	100	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Hot Water Extraction	Completed				10/09/08 18:10	TAS		
Sodium Adsorption Ratio	0.336			20B	10/03/08 14:50	BJR		
Arsenic	0.84	mg/kg	0.10	6020	10/02/08 14:57	SLS	7440-38-2	
Barium	55.5	mg/kg	1.0	6020	10/02/08 14:57	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 14:57	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 14:57	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/02/08 14:57	SLS	7440-47-3	
Copper	4.3	mg/kg	1.0	6020	10/02/08 14:57	SLS	7440-50-8	
Lead	5.18	mg/kg	0.50	6020	10/02/08 14:57	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:18	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 14:57	SLS	7439-98-7	
Nickel	5.1	mg/kg	1.0	6020	10/02/08 14:57	SLS	7440-02-0	
Selenium	0.20	mg/kg	0.20	6020	10/02/08 14:57	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 14:57	SLS	7440-22-4	
Zinc	5.6	mg/kg	1.0	6020	10/02/08 14:57	SLS	7440-66-6	
Boron	0.31	mg/L	0.02	200.8	10/10/08 16:21	SLS	7440-42-8	
Calcium	402	mg/L	1.0	200.8	10/03/08 13:20	PER	7440-70-2	
Magnesium	260	mg/L	0.20	200.8	10/03/08 13:20	PER	7439-95-4	
Sodium	35.2	mg/L	0.20	200.8	10/03/08 13:20	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	6,400,000	ug/kg	500,000	8015B	10/03/08 16:40	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	500,000	8015M	10/03/08 16:40	ARH		XY

Organics - Volatiles

TPH GRO (C6-C10)	21,000,000	ug/kg	1,000,000	8015M	10/02/08 20:44	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.17
Sample Tag: 111762-SW-C-01-07
Collected Date/Time: 10/01/2008 09:07
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.18
Sample Tag: 111762-SW-C-03-07
Collected Date/Time: 10/01/2008 09:10
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Metal Digestion (Replicate 01)	Completed			3015A	10/10/08 12:00	SLS		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,055	umhos/cm		120.1	10/03/08 12:20	JKB		
pH	7.93	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	87	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Hot Water Extraction	Completed				10/09/08 18:10	TAS		
Sodium Adsorption Ratio	2.49			20B	10/03/08 14:50	BJR		
Arsenic	2.95	mg/kg	0.10	6020	10/02/08 16:54	SLS	7440-38-2	
Barium	150	mg/kg	1.0	6020	10/02/08 16:54	SLS	7440-39-3	
Boron	3.40	mg/kg	2.0	6020	10/02/08 16:54	SLS	7440-42-8	
Cadmium	0.26	mg/kg	0.20	6020	10/02/08 16:54	SLS	7440-43-9	
Chromium	1.5	mg/kg	1.0	6020	10/02/08 16:54	SLS	7440-47-3	
Copper	9.9	mg/kg	1.0	6020	10/02/08 16:54	SLS	7440-50-8	
Lead	9.99	mg/kg	0.50	6020	10/02/08 16:54	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:28	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 16:54	SLS	7439-98-7	
Nickel	10.3	mg/kg	1.0	6020	10/02/08 16:54	SLS	7440-02-0	
Selenium	0.24	mg/kg	0.20	6020	10/02/08 16:54	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 16:54	SLS	7440-22-4	
Zinc	35.2	mg/kg	1.0	6020	10/02/08 16:54	SLS	7440-66-6	
Boron	0.86	mg/L	0.02	200.8	10/10/08 16:25	SLS	7440-42-8	
Calcium	64.4	mg/L	1.0	200.8	10/03/08 13:22	PER	7440-70-2	
Magnesium	33.8	mg/L	0.20	200.8	10/03/08 13:22	PER	7439-95-4	
Sodium	99.0	mg/L	0.20	200.8	10/03/08 13:22	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,100,000	ug/kg	100,000	8015B	10/02/08 18:34	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 18:34	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	9,000,000	ug/kg	1,000,000	8015M	10/02/08 21:02	JGH		Y
------------------	-----------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.19
Sample Tag: 111762-SW-C-05-07
Collected Date/Time: 10/01/2008 09:23
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.20
Sample Tag: 111762-SW-C-07-07
Collected Date/Time: 10/01/2008 09:28
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,200	umhos/cm		120.1	10/03/08 12:25	JKB		
pH	8.16	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	86	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	2.86			20B	10/03/08 14:50	BJR		
Arsenic	2.39	mg/kg	0.10	6020	10/02/08 16:58	SLS	7440-38-2	
Barium	82.0	mg/kg	1.0	6020	10/02/08 16:58	SLS	7440-39-3	
Boron	2.20	mg/kg	2.0	6020	10/02/08 16:58	SLS	7440-42-8	
Cadmium	0.20	mg/kg	0.20	6020	10/02/08 16:58	SLS	7440-43-9	
Chromium	1.7	mg/kg	1.0	6020	10/02/08 16:58	SLS	7440-47-3	
Copper	11.0	mg/kg	1.0	6020	10/02/08 16:58	SLS	7440-50-8	
Lead	11.4	mg/kg	0.50	6020	10/02/08 16:58	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:30	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 16:58	SLS	7439-98-7	
Nickel	9.6	mg/kg	1.0	6020	10/02/08 16:58	SLS	7440-02-0	
Selenium	0.28	mg/kg	0.20	6020	10/02/08 16:58	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 16:58	SLS	7440-22-4	
Zinc	31.3	mg/kg	1.0	6020	10/02/08 16:58	SLS	7440-66-6	
Calcium	38.2	mg/L	1.0	200.8	10/03/08 13:46	PER	7440-70-2	
Magnesium	67.7	mg/L	0.20	200.8	10/03/08 13:46	PER	7439-95-4	
Sodium	127	mg/L	0.20	200.8	10/03/08 13:46	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	3,100,000	ug/kg	100,000	8015B	10/02/08 18:55	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 18:55	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	15,000,000	ug/kg	1,000,000	8015M	10/02/08 21:20	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.21
Sample Tag: 111762-B-06
Collected Date/Time: 10/01/2008 10:10
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	6,450	umhos/cm		120.1	10/03/08 12:30	JKB		
pH	7.74	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	96	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	0.513			20B	10/03/08 14:50	BJR		
Arsenic	1.27	mg/kg	0.10	6020	10/02/08 17:02	SLS	7440-38-2	
Barium	50.6	mg/kg	1.0	6020	10/02/08 17:02	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 17:02	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 17:02	SLS	7440-43-9	
Chromium	1.2	mg/kg	1.0	6020	10/02/08 17:02	SLS	7440-47-3	
Copper	2.9	mg/kg	1.0	6020	10/02/08 17:02	SLS	7440-50-8	
Lead	6.39	mg/kg	0.50	6020	10/02/08 17:02	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:31	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:02	SLS	7439-98-7	
Nickel	6.1	mg/kg	1.0	6020	10/02/08 17:02	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 17:02	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:02	SLS	7440-22-4	
Zinc	5.9	mg/kg	1.0	6020	10/02/08 17:02	SLS	7440-66-6	
Calcium	911	mg/L	1.0	200.8	10/03/08 13:49	PER	7440-70-2	
Magnesium	126	mg/L	0.20	200.8	10/03/08 13:49	PER	7439-95-4	
Sodium	62.4	mg/L	0.20	200.8	10/03/08 13:49	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	8,000	ug/kg	4,000	8015B	10/03/08 14:55	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/03/08 14:55	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/02/08 17:23	JGH		
------------------	--------------	-------	-------	-------	----------------	-----	--	--



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.22
Sample Tag: 111763-B-06
Collected Date/Time: 10/01/2008 10:30
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	3,565	umhos/cm		120.1	10/03/08 12:35	JKB		
pH	8.04	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	97	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	0.252			20B	10/03/08 14:50	BJR		
Arsenic	0.91	mg/kg	0.10	6020	10/02/08 17:07	SLS	7440-38-2	
Barium	76.9	mg/kg	1.0	6020	10/02/08 17:07	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 17:07	SLS	7440-42-8	
Cadmium	0.21	mg/kg	0.20	6020	10/02/08 17:07	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/02/08 17:07	SLS	7440-47-3	
Copper	2.7	mg/kg	1.0	6020	10/02/08 17:07	SLS	7440-50-8	
Lead	5.13	mg/kg	0.50	6020	10/02/08 17:07	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:33	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:07	SLS	7439-98-7	
Nickel	7.1	mg/kg	1.0	6020	10/02/08 17:07	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 17:07	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:07	SLS	7440-22-4	
Zinc	6.7	mg/kg	1.0	6020	10/02/08 17:07	SLS	7440-66-6	
Calcium	625	mg/L	1.0	200.8	10/03/08 13:50	PER	7440-70-2	
Magnesium	136	mg/L	0.20	200.8	10/03/08 13:50	PER	7439-95-4	
Sodium	26.7	mg/L	0.20	200.8	10/03/08 13:50	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	6,000	ug/kg	4,000	8015B	10/03/08 15:16	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/03/08 15:16	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	Not detected	ug/kg	1,000	8015M	10/02/08 17:41	JGH		
------------------	--------------	-------	-------	-------	----------------	-----	--	--



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.23
Sample Tag: 111762-SW-B-01-07
Collected Date/Time: 10/01/2008 13:25
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.24
Sample Tag: 111762-SW-B-03-07
Collected Date/Time: 10/01/2008 13:30
Matrix: Soil
COC Reference: 51097

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,545	umhos/cm		120.1	10/03/08 12:40	JKB		
pH	8.12	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	78	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	1.75			20B	10/03/08 14:50	BJR		
Arsenic	2.90	mg/kg	0.10	6020	10/02/08 17:11	SLS	7440-38-2	
Barium	73.0	mg/kg	1.0	6020	10/02/08 17:11	SLS	7440-39-3	
Boron	2.06	mg/kg	2.0	6020	10/02/08 17:11	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 17:11	SLS	7440-43-9	
Chromium	1.6	mg/kg	1.0	6020	10/02/08 17:11	SLS	7440-47-3	
Copper	10.0	mg/kg	1.0	6020	10/02/08 17:11	SLS	7440-50-8	
Lead	10.7	mg/kg	0.50	6020	10/02/08 17:11	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:35	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:11	SLS	7439-98-7	
Nickel	7.9	mg/kg	1.0	6020	10/02/08 17:11	SLS	7440-02-0	
Selenium	0.21	mg/kg	0.20	6020	10/02/08 17:11	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:11	SLS	7440-22-4	
Zinc	32.7	mg/kg	1.0	6020	10/02/08 17:11	SLS	7440-66-6	
Calcium	122	mg/L	1.0	200.8	10/03/08 13:52	PER	7440-70-2	
Magnesium	25.3	mg/L	0.20	200.8	10/03/08 13:52	PER	7439-95-4	
Sodium	81.3	mg/L	0.20	200.8	10/03/08 13:52	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	5,000,000	ug/kg	200,000	8015B	10/03/08 15:37	ARH		XY
TPH ORO (C28-C36)	Not detected	ug/kg	200,000	8015M	10/03/08 15:37	ARH		XY

Organics - Volatiles

TPH GRO (C6-C10)	11,000,000	ug/kg	2,000,000	8015M	10/02/08 21:39	JGH		Y
------------------	------------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.25
Sample Tag: 111760-B-07
Collected Date/Time: 10/01/2008 11:25
Matrix: Soil
COC Reference: 51098

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		
Inorganics								
Conductivity	7,880	umhos/cm		120.1	10/03/08 12:45	JKB		
pH	8.02	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	94	%	1	Std M 2540 B	10/02/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	5.54			20B	10/03/08 14:50	BJR		
Arsenic	1.07	mg/kg	0.10	6020	10/02/08 17:15	SLS	7440-38-2	
Barium	86.1	mg/kg	1.0	6020	10/02/08 17:15	SLS	7440-39-3	
Boron	2.51	mg/kg	2.0	6020	10/02/08 17:15	SLS	7440-42-8	
Cadmium	0.30	mg/kg	0.20	6020	10/02/08 17:15	SLS	7440-43-9	
Chromium	1.4	mg/kg	1.0	6020	10/02/08 17:15	SLS	7440-47-3	
Copper	8.2	mg/kg	1.0	6020	10/02/08 17:15	SLS	7440-50-8	
Lead	6.67	mg/kg	0.50	6020	10/02/08 17:15	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:37	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:15	SLS	7439-98-7	
Nickel	6.1	mg/kg	1.0	6020	10/02/08 17:15	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 17:15	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:15	SLS	7440-22-4	
Zinc	12.4	mg/kg	1.0	6020	10/02/08 17:15	SLS	7440-66-6	
Calcium	576	mg/L	1.0	200.8	10/03/08 13:53	PER	7440-70-2	
Magnesium	277	mg/L	0.20	200.8	10/03/08 13:53	PER	7439-95-4	
Sodium	647	mg/L	0.20	200.8	10/03/08 13:53	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/03/08 15:58	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/03/08 15:58	ARH		
Organics - Volatiles								
TPH GRO (C6-C10)	1,000	ug/kg	1,000	8015M	10/02/08 17:59	JGH		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.26
Sample Tag: 111761-B-07
Collected Date/Time: 10/01/2008 11:45
Matrix: Soil
COC Reference: 51098

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	4,360	umhos/cm		120.1	10/03/08 12:50	JKB		
pH	7.86	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	96	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	2.94			20B	10/03/08 14:50	BJR		
Arsenic	0.76	mg/kg	0.10	6020	10/02/08 17:20	SLS	7440-38-2	
Barium	67.8	mg/kg	1.0	6020	10/02/08 17:20	SLS	7440-39-3	
Boron	Not detected	mg/kg	2.0	6020	10/02/08 17:20	SLS	7440-42-8	
Cadmium	Not detected	mg/kg	0.20	6020	10/02/08 17:20	SLS	7440-43-9	
Chromium	Not detected	mg/kg	1.0	6020	10/02/08 17:20	SLS	7440-47-3	
Copper	3.4	mg/kg	1.0	6020	10/02/08 17:20	SLS	7440-50-8	
Lead	4.17	mg/kg	0.50	6020	10/02/08 17:20	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:39	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:20	SLS	7439-98-7	
Nickel	4.2	mg/kg	1.0	6020	10/02/08 17:20	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 17:20	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:20	SLS	7440-22-4	
Zinc	6.9	mg/kg	1.0	6020	10/02/08 17:20	SLS	7440-66-6	
Calcium	395	mg/L	1.0	200.8	10/03/08 13:55	PER	7440-70-2	
Magnesium	213	mg/L	0.20	200.8	10/03/08 13:55	PER	7439-95-4	
Sodium	292	mg/L	0.20	200.8	10/03/08 13:55	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	Not detected	ug/kg	4,000	8015B	10/03/08 16:19	ARH		
TPH ORO (C28-C36)	Not detected	ug/kg	4,000	8015M	10/03/08 16:19	ARH		

Organics - Volatiles

TPH GRO (C6-C10)	1,000	ug/kg	1,000	8015M	10/02/08 18:17	JGH		
------------------	-------	-------	-------	-------	----------------	-----	--	--



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.27
Sample Tag: 111762-SW-B-05-07
Collected Date/Time: 10/01/2008 13:35
Matrix: Soil
COC Reference: 51098

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/02/08 12:30	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38442.28
Sample Tag: 111762-SW-B-07-07
Collected Date/Time: 10/01/2008 13:40
Matrix: Soil
COC Reference: 51098

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

DRO Extraction	Completed			3510C	10/02/08 13:30	PL		
Mercury Digestion	Completed			7471A	10/02/08 14:00	JRT		
Metal Digestion	Completed			3050B	10/03/08 12:00	SLS		
Metal Digestion	Completed			3015A	10/03/08 10:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/02/08 11:00	DJS		

Inorganics

Conductivity	1,000	umhos/cm		120.1	10/03/08 12:55	JKB		
pH	8.37	STD Units	0.1	9045D	10/02/08 15:26	WAR		
Total Solids	90	%	1	Std M 2540 B	10/02/08 11:00	DJS		

Metals

Sodium Adsorption Ratio	3.04			20B	10/03/08 14:50	BJR		
Arsenic	1.94	mg/kg	0.10	6020	10/02/08 17:24	SLS	7440-38-2	
Barium	79.7	mg/kg	1.0	6020	10/02/08 17:24	SLS	7440-39-3	
Boron	2.88	mg/kg	2.0	6020	10/02/08 17:24	SLS	7440-42-8	
Cadmium	0.20	mg/kg	0.20	6020	10/02/08 17:24	SLS	7440-43-9	
Chromium	1.3	mg/kg	1.0	6020	10/02/08 17:24	SLS	7440-47-3	
Copper	8.5	mg/kg	1.0	6020	10/02/08 17:24	SLS	7440-50-8	
Lead	8.07	mg/kg	0.50	6020	10/02/08 17:24	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	10/02/08 16:41	JRT	7439-97-6	
Molybdenum	Not detected	mg/kg	0.50	6020	10/02/08 17:24	SLS	7439-98-7	
Nickel	9.1	mg/kg	1.0	6020	10/02/08 17:24	SLS	7440-02-0	
Selenium	Not detected	mg/kg	0.20	6020	10/02/08 17:24	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.10	6020	10/02/08 17:24	SLS	7440-22-4	
Zinc	25.9	mg/kg	1.0	6020	10/02/08 17:24	SLS	7440-66-6	
Calcium	25.4	mg/L	1.0	200.8	10/03/08 13:56	PER	7440-70-2	
Magnesium	61.1	mg/L	0.20	200.8	10/03/08 13:56	PER	7439-95-4	
Sodium	124	mg/L	0.20	200.8	10/03/08 13:56	PER	7440-23-5	

Organics - Semi-Volatiles

TPH DRO (C10-C28)	1,300,000	ug/kg	100,000	8015B	10/02/08 21:02	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/02/08 21:02	ARH		X

Organics - Volatiles

TPH GRO (C6-C10)	8,000,000	ug/kg	1,000,000	8015M	10/02/08 21:57	JGH		Y
------------------	-----------	-------	-----------	-------	----------------	-----	--	---

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

REPORT TO

CHAIN OF CUSTODY RECORD

51096

INVOICE TO

CONTACT NAME <i>Marisa Patterson</i>		SIGNATURE NAME	
COMPANY <i>Stantec</i>		COMPANY	
ADDRESS <i>2321 Club Meridian Dr. Ste E</i>		ADDRESS	
CITY <i>Okemos</i>		CITY	
PHONE NO. <i>(517) 349-9477</i>	FAX NO. <i>(517) 349-6863</i>	PHONE NO.	FAX NO.
E-MAIL ADDRESS <i>marisa.patterson@stantec.com</i>		E-MAIL ADDRESS	
PROJECT NO./NAME <i>South Canyon</i>		PROJECT NO./NAME	
TURNAROUND TIME REQUIRED <i>12 HR</i>		TURNAROUND TIME REQUIRED	
DELIVERABLES REQUIRED <i>STANDARD</i>		DELIVERABLES REQUIRED	

MATRIX CODE	GW-GROUNDWATER SL-SLUDGE	WW-WASTEWATER DOIL	S-SOL A-AIR	L-LIQUID W-WASTE	SO-SOLID M-MISC	# Containers & Preservatives	ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)	SPECIAL INSTRUCTIONS/NOTES
MERIT LAB NO.	YEAR	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION		MATRIX	1 OF 2 BOTTLES	OTHER
38442.01	2008	9/24	1535	111762-EF-A-07		S	2	X
02		1538		-EF-B-07				
03		1548		-EF-A-09				
04		1550		-EF-B-09				
05		1555		-EF-A-11				
06		1557		-EF-B-11				
07		1600		-EF-A-13				
08		1603		-EF-B-13				
09		1637		-SW-D-01-07				
10		1640		-SW-D-03-07				
11		1644		-SW-A-05-07				
12		1648		-SW-D-07-07				

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>J. Boone Stantec</i>	DATE <i>10/01/08</i>	TIME <i>1800</i>	RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>Barbara P. Rusk</i>	DATE <i>10-2-08</i>	TIME <i>10:40</i>
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

51097

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Marisa Patterson
COMPANY: Stantec
ADDRESS: 2321 Club Meridian Dr. Ste E
CITY: Okemos STATE: MI ZIP CODE: 48864
PHONE NO.: (517) 349-9499 FAX NO.: (517) 349-6863 P.O. NO.:
E-MAIL ADDRESS: marisa.patterson@stantec.com QUOTE NO.: 080915-01

CONTACT NAME: _____
COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP CODE: _____
PHONE NO.: _____ FAX NO.: _____ P.O. NO.: _____

PROJECT NO./NAME: South Canyon ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)
TURNAROUND TIME REQUIRED: ☒ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW-GROUNDWATER SW-SLUDGE WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
M-AIR M-WASTE M-MISC

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	H3PO4	H2O2	OTHER
	DATE	TIME										
38442.13	9/30/08	1700	111762-SW-A-01-07	S	2	X						
14	9/30/08	1703	-SW-A-03-07									
15	9/30/08	1705	-SW-A-05-07									
16	9/30/08	1708	-SW-A-07-07									
17	10/01/08	0907	111762-SW-C-01-07									
18		0910	SW-C-03-07									
19		0923	SW-C-05-07									
20		0928	SW-C-07-07									
21		1010	111762-B-06									
22		1030	111763-B-06									
23		1325	111762-SW-B-01-07									
24		1330	-SW-B-03-07									

SPECIAL INSTRUCTIONS/NOTES: TPH 160,000,000
Conductivity (20.1)
pH (9.45°C)
SAR (2.03)
Method (As per B.C.A.)
Cl, Cu, Pb, Hg, Mn
Ni, Se, Ag, Zn
6020A/7471A

RELINQUISHED BY: [Signature] DATE: 10/01/08 TIME: 1500
RECEIVED BY: _____ DATE: _____ TIME: _____
RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: [Signature] DATE: 10-2-08 TIME: 10:40
RECEIVED BY: [Signature] DATE: _____ TIME: _____
SEAL NO.: _____ SEAL INTACT: YES ☐ NO ☐ INITIALS: _____
SEAL NO.: _____ SEAL INTACT: YES ☐ NO ☐ INITIALS: _____
NOTES: _____ TEMP. ON ARRIVAL: 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



2660 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0187 Fax (517) 332-6393
www.meritlabs.com

G.O.C. PAGE # 3 OF 3

REPORT TO

CHAIN OF CUSTODY RECORD

51098

INVOICE TO

CONTACT NAME Marisa Patterson
COMPANY Stantec
ADDRESS 2321 Club Meridian Dr. SE
CITY Okemos STATE MI ZIP CODE 48864
PHONE NO. (517) 349-9499 FAX NO. (517) 349-6863 P.O. NO.
E-MAIL ADDRESS marisa.patterson@stantec.com QUOTE NO. 080915-01

CONTACT NAME
COMPANY
ADDRESS
CITY
PHONE NO. FAX NO. STATE ZIP CODE

PROJECT NO./NAME South Canyon SAMPLER ID - PLEASE PRINT SIGNATURE L. F. Boone
TURNAROUND TIME REQUIRED ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MATRIX CODE: GW-GROUNDWATER SL-SLUDGE WW-WASTEWATER C-CIL S-SOL A-AIR L-LIQUID W-WASTE SO-SOLID M-MISC

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	WATER	100 BOTTLES	NONE	HCL	H2O2	H2SO4	HNO3	MACH	OTHER	# Containers & Preservatives	TYPH (GAL, DR, P, 5K, 10K)	Conductivity (20.1)	pH (90.5C)	SAR (20.0)	Metals (As, Cd, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn)	(6020A/2471A)
	DATE	TIME																	
38442.25	10/14/08	1125	111760-B-07		5	2	X							X	X	X	X	X	
26		1145	111761-B-07				X							X	X	X	X	X	
27		1335	111762-SW-B-05-07				X							X	X	X	X	X	
28		1340	-SW-B-07-07				X							X	X	X	X	X	

RELINQUISHED BY: [Signature] DATE 10/14/08 TIME 1800
RECEIVED BY: [Signature] DATE 10/14/08 TIME 1800
RELINQUISHED BY: [Signature] DATE 10/14/08 TIME 1800
RECEIVED BY: [Signature] DATE 10/14/08 TIME 1800

RELINQUISHED BY: [Signature] DATE 10/20/08 TIME 10:40
RECEIVED BY: Barbara Ryland DATE 10/20/08 TIME 10:40
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS 4-2
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

51096

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME <i>Marisa Patterson</i>			
COMPANY <i>Stantec</i>			
ADDRESS <i>2321 Club Meridian Dr. Ste E</i>			
CITY <i>Okemos</i>		STATE <i>MI</i>	ZIP CODE <i>48864</i>
PHONE NO. <i>(517) 349-9499</i>	FAX NO. <i>(517) 349-6863</i>	P.O. NO.	
E-MAIL ADDRESS <i>marisa.patterson@stantec.com</i>		QUOTE NO. <i>080915-01</i>	

CONTACT NAME			SAMP#		
COMPANY					
ADDRESS					
CITY			STATE	ZIP CODE	
PHONE NO.		FAX NO.		P.O. NO.	

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME <i>South Canyon</i>		SAMPLED ON / PLEASE PRINT SIGNATURE <i>LF Boone</i>		SPECIAL INSTRUCTIONS/NOTES																
TURNAROUND TIME REQUIRED		<input checked="" type="checkbox"/> 24 HR	<input checked="" type="checkbox"/> 48 HR	<input type="checkbox"/> 72 HR	<input type="checkbox"/> STANDARD	<input type="checkbox"/> OTHER														
DELIVERABLES REQUIRED		<input checked="" type="checkbox"/> STANDARD	<input type="checkbox"/> LEVEL II	<input type="checkbox"/> LEVEL III	<input type="checkbox"/> OTHER															
MATRIX CODE	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER O=OIL	S=SOIL A=AIR	L=LIQUID W=WASTE	SD=SOLID M=MISC	# Containers & Preservatives														
MERIT LAB NO.	YEAR DATE TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION				MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER						
	9/30/08 1535	111762-EF-A-07				S	2	X												
	1538	-EF-B-07																		
	1548	-EF-A-09																		
	1550	-EF-B-09																		
	1555	-EF-A-11																		
	1557	-EF-B-11																		
	1600	-EF-A-13																		
	1603	-EF-B-13																		
	1637	-SW-D-01-07																		
	1640	-SW-D-03-07																		
	1644	-SW-D-05-07																		
	1648	-SW-D-07-07																		

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>LF Boone Stantec</i>	DATE <i>10/08/08</i>	TIME <i>1800</i>	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME		
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME		
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES NO	INITIALS	NOTES	TEMP. ON ARRIVAL
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES NO	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Marisa Patterson
COMPANY: Stantec
ADDRESS: 2321 Club Meridian Dr Ste E
CITY: Okemos STATE: MI ZIP CODE: 48864
PHONE NO.: (517) 349-9499 FAX NO.: (517) 349-6863
E-MAIL ADDRESS: marisa.patterson@stantec.com
P.O. NO.:
QUOTE NO.: 080915-01

CONTACT NAME: _____
COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP CODE: _____
PHONE NO.: _____ FAX NO.: _____ P.O. NO.: _____

PROJECT NO./NAME: South Canyon
TURNAROUND TIME REQUIRED: ☒ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NHOH	MeOH	OTHER	TPH (160, DRD, DRD, 80, 15B)	Conductivity (20.1)	pH (90.5°C)	SAR (20B)	Metals (As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn)	(6020A/7471A)
	DATE	TIME																
	9/30/08	1700	111762-SW-A-01-07	S	2	X							X	X	X	X	X	
	9/30/08	1703	-SW-A-03-07										X	X	X	X	X	
	9/30/08	1705	-SW-A-05-07										X	X	X	X	X	
	9/30/08	1708	-SW-A-07-07										X	X	X	X	X	
	10/01/08	0907	111762-SW-C-01-07										X	X	X	X	X	
		0910	SW-C-03-07										X	X	X	X	X	
		0923	SW-C-05-07										X	X	X	X	X	
		0928	SW-C-07-07										X	X	X	X	X	
		1010	111762-B-06										X	X	X	X	X	
		1030	111763-B-06										X	X	X	X	X	
		1325	111762-SW-B-01-07										X	X	X	X	X	
		1330	-SW-B-03-07										X	X	X	X	X	

RELINQUISHED BY: [Signature] DATE: 10/01/08 TIME: 1800
RECEIVED BY: _____ DATE: _____ TIME: _____
SIGNATURE/ORGANIZATION: _____
RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: _____ TIME: _____
SIGNATURE/ORGANIZATION: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
RECEIVED BY: _____ DATE: _____ TIME: _____
SIGNATURE/ORGANIZATION: _____
SEAL NO.: _____ SEAL INTACT YES ☐ NO ☐ INITIALS: _____
SEAL NO.: _____ SEAL INTACT YES ☐ NO ☐ INITIALS: _____
NOTES: _____ TEMP. ON ARRIVAL: _____



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0187 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 3 OF 3

51098

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Marisa Patterson
COMPANY Stantec
ADDRESS 2321 Club Meridian Dr. Ste E
CITY Okemos STATE MI ZIP CODE 48864
PHONE NO. (517) 349-9499 FAX NO. (517) 349-6863 P.O. NO.
E-MAIL ADDRESS marisa.patterson@stantec.com QUOTE NO. 080915-01

CONTACT NAME
COMPANY
ADDRESS
CITY
PHONE NO. FAX NO. P.O. NO.
STATE ZIP CODE

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO. NAME South Canyon SAMPLER(S) PLEASE PRINT(S) SIGN NAME LF Boone / LF Boone
TURNAROUND TIME REQUIRED ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER
MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC
Containers & Preservatives
SPECIAL INSTRUCTIONS/NOTES
TPH (GPO, PPO, PRO, 8015B)
Conductivity (120.1)
pH (9045C)
SAR (20B)
Metals (As, Ba, B, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn)
(6020A/7471A)

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	TPH	Conductivity	pH	SAR	Metals	Cu, Pb, Hg, Mo, Ni, Se, Ag, Zn	(6020A/7471A)
	DATE	TIME																	
	10/01/08	1125	111760-B-07	S	2	X							X	X	X	X	X		
		1145	111761-B-07		1	X							X	X	X	X	X		
		1335	111762-SW-B-05-07			X							X	X	X	X	X		
		1340	-SW-B-07-07			X							X	X	X	X	X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION <u>LF Boone - Stantec</u>	DATE <u>10/01/08</u> TIME <u>1800</u>	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME			
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME		
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES: NO: I	INITIALS	NOTES	TEMP. ON ARRIVAL
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES: NO: I	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Supplemental Report

Report ID: S38613.01(03)
Generated on 10/17/2008
Replaces report S38613.01(02) generated on 10/16/2008

Report to

Attention: Marisa Patterson
Stantec
2321 Club Meridian Dr. #E
Okemos, MI 48864-4505
MSA# 94023

Phone: 517-349-9499 FAX: 517-349-6863
Email: marisa.patterson@stantec.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S38613.01-S38613.14
Project: South Canyon
Collected Date: 10/09/2008 - 10/13/2008
Submitted Date/Time: 10/14/2008 10:30
Sampled by: LF Boone
P.O. #:

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Supplemental Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S38613.01	112108-SW-D-22-17	Soil	10/09/2008 15:45
S38613.02	112108-SW-D-24-17	Soil	10/09/2008 15:50
S38613.03	111762-SW-C-09-07	Soil	10/10/2008 16:10
S38613.04	111762-SW-D-09-07	Soil	10/10/2008 16:30
S38613.05	111762-SW-A-09-07	Soil	10/10/2008 16:45
S38613.06	111762-EF-B-15	Soil	10/11/2008 09:35
S38613.07	111762-EF-A-15	Soil	10/11/2008 09:37
S38613.08	111762-EF-A-18	Soil	10/11/2008 09:42
S38613.09	111762-EF-B-18	Soil	10/11/2008 09:44
S38613.10	111763-EF-B-15	Soil	10/11/2008 15:15
S38613.11	111760-SW-B-09-14	Soil	10/13/2008 09:30
S38613.12	111760-EF-B-18	Soil	10/13/2008 09:59
S38613.13	111761-SW-A-07-10	Soil	10/13/2008 10:35
S38613.14	111761-EF-A-17	Soil	10/13/2008 10:45



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.01
Sample Tag: 112108-SW-D-22-17
Collected Date/Time: 10/09/2008 15:45
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Metal Digestion	Completed			3015A	10/16/08 17:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/15/08 17:50	DJS		
Inorganics								
Conductivity	13,250	umhos/cm		120.1	10/17/08 11:20	JKB		
pH	8.33	STD Units	0.1	9045D	10/16/08 16:09	DJS		
Total Solids	90	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	8.39			20B	10/17/08 09:30	BJR		
Calcium	1,940	mg/L	1.0	200.8	10/16/08 17:27	PER	7440-70-2	
Magnesium	848	mg/L	0.20	200.8	10/16/08 17:27	PER	7439-95-4	
Sodium	1,760	mg/L	0.20	200.8	10/16/08 17:27	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	160,000	ug/kg	10,000	8015B	10/14/08 19:21	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	10,000	8015M	10/14/08 19:21	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	590,000	ug/kg	30,000	8015M	10/15/08 14:56	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.02
Sample Tag: 112108-SW-D-24-17
Collected Date/Time: 10/09/2008 15:50
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/14/08 12:00	BJR		



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.03
Sample Tag: 111762-SW-C-09-07
Collected Date/Time: 10/10/2008 16:10
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Metal Digestion	Completed			3015A	10/16/08 17:00	PER		
Sodium Adsorption Ratio Prep.	Completed			20B	10/15/08 17:50	DJS		
Inorganics								
Conductivity	1,210	umhos/cm		120.1	10/17/08 11:30	JKB		
pH	8.11	STD Units	0.1	9045D	10/16/08 16:09	DJS		
Total Solids	81	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Metals								
Sodium Adsorption Ratio	1.93			20B	10/17/08 09:30	BJR		
Calcium	67.9	mg/L	1.0	200.8	10/16/08 17:28	PER	7440-70-2	
Magnesium	51.4	mg/L	0.20	200.8	10/16/08 17:28	PER	7439-95-4	
Sodium	86.5	mg/L	0.20	200.8	10/16/08 17:28	PER	7440-23-5	
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,500,000	ug/kg	100,000	8015B	10/14/08 15:29	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 15:29	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	8,000,000	ug/kg	1,000,000	8015M	10/14/08 19:07	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.04
Sample Tag: 111762-SW-D-09-07
Collected Date/Time: 10/10/2008 16:30
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	90	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	1,000,000	ug/kg	100,000	8015B	10/14/08 15:50	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 15:50	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	15,000,000	ug/kg	1,000,000	8015M	10/14/08 19:25	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.05
Sample Tag: 111762-SW-A-09-07
Collected Date/Time: 10/10/2008 16:45
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	89	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	2,100,000	ug/kg	100,000	8015B	10/14/08 16:11	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:11	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	13,000,000	ug/kg	1,000,000	8015M	10/14/08 19:43	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.06
Sample Tag: 111762-EF-B-15
Collected Date/Time: 10/11/2008 09:35
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	87	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,400,000	ug/kg	100,000	8015B	10/14/08 16:32	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:32	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	20,000,000	ug/kg	1,000,000	8015M	10/14/08 20:02	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S38613.07
Sample Tag: 111762-EF-A-15
Collected Date/Time: 10/11/2008 09:37
Matrix: Soil
COC Reference: 51101

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	8oz. Glass	None	Yes	4.5	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
DRO Extraction	Completed			3510C	10/14/08 12:46	PL		
Inorganics								
Total Solids	86	%	1	Std M 2540 B	10/14/08 11:00	DJS		
Organics - Semi-Volatiles								
TPH DRO (C10-C28)	3,300,000	ug/kg	100,000	8015B	10/14/08 16:53	ARH		X
TPH ORO (C28-C36)	Not detected	ug/kg	100,000	8015M	10/14/08 16:53	ARH		X
Organics - Volatiles								
TPH GRO (C6-C10)	40,000,000	ug/kg	1,000,000	8015M	10/14/08 20:20	JGH		Y

X-Elevated reporting limit due to matrix interference

Y-Elevated reporting limit due to high target concentration