

October 31, 2007

VIA: CERTIFIED MAIL

Mr. Larry Johnson Environmental Engineer New Mexico Oil Conservation Division – District I 1625 North French Drive Hobbs, New Mexico 88240

Re: 1RP-1454 - Final Report

John H. Hendrix Corporation - Frisco State "A" Tank Battery Unit F (SE/4, NW/4), Section 32, Township 22 South, Range 37 East

Lea County, New Mexico

Dear Mr. Johnson:

This letter is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of John H. Hendrix Corporation (JHHC) by Larson & Associates Inc. (LAI), its consultant, and presents the delineation and remediation of a crude oil spill at the Frisco State "A" Tank Battery (Site) located about .5 miles west of Eunice, New Mexico. The legal description for the Site is unit F (SE/4, NW/4), Section 32, Township 22 South and Range 37 East, Lea County, New Mexico. The GPS position for the Site is latitude 32° 26' 18.8" north and longitude 103° 11' 22.5" west. Figure 1 presents a location and topographic map. Figure 2 presents a Site drawing. Contact for JHHC is as follows:

Name:

Marvin Burrows

Title:

Production Superintendent

Address:

1310 18th Street

Eunice, New Mexico 88231

Telephone:

(505) 394-2649

Cell:

(505) 390-9689

Email:

mburrows@valornet.com

Background

On June 26, 2007, lightening struck the Frisco State "A" Tank Battery igniting a fire that consumed the crude oil tank and a fiberglass water tank. Approximately 0.5- barrels of crude oil contacted the ground over an older spill. Verbal notification was not immediately provided to the OCD, however, form C-141 was submitted on June 29, 2007.

Setting

The Site elevation is approximately 3,460 feet above mean sea level (MSL). No surface water, including playa lakes, streams, rivers, ponds or arroyos, or water wells are located within 1,000 horizontal feet of the Site. Wind-blown sand covers the Site and overlies the Tertiary-age Ogallala formation consisting of yellowish red and reddish yellow sand. The Ogallala formation overlies the Triassic-age Chinle formation consisting of red mud stone, shale and sandstone.

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The New Mexico State Engineer (NMSE) shows groundwater at approximately 90 feet below ground surface (bgs) in the vicinity of the Site. Groundwater was measured at approximately 91.50 feet bgs in a temporary monitoring well that was installed immediately down gradient (southeast) of the remediation area.

Delineation

On August 21, 2007, LAI personnel used a Terraprobe® direct-push sampler to collect soil samples at ten (10) locations (SP-1 through SP-10). The soil samples were collected from ground surface to approximately four (4) feet bgs except at locations SP-1, SP-2, SP-6 and SP-9 where samples were collected to approximately eight (8) feet bgs. The samples were placed in clean glass 4-ounce sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Test America Laboratories, Inc. (formerly Severn Trent Laboratories, Inc.) located in Corpus Christi, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, xylene (BTEX) using method SW-846-8021B, total petroleum hydrocarbons (TPH), including gasoline-range organics (GRO) and diesel-range organics (DRO), using method SW-846-8015 modified and chloride using EPA method 300. Table 1 presents a summary of the TPH and chloride analysis. Table 2 presents a summary of the BTEX analysis. Figure 2 presents the sample locations. Appendix A presents the laboratory report. Appendix B presents the boring logs.

LAI used OCD guidelines (Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993) to calculate recommended remediation action levels (RRAL) for benzene, total BTEX and TPH. The following criteria were used to calculate the RRAL:

Criteria	Result	Ranking Score
Depth-to-Groundwater (Vertical	50 - 99	10
Feet)		
Wellhead Protection Area	>1000 Horizontal Feet to	0
Horizontal Distance to Water Wells)	Water Source	
Distance to Surface Water Body	>1000 Horizontal Feet to	0
(Horizontal Feet)	Surface Water Body	
		Total: 10

The following RRALs have been assigned to the Site:

Benzene 10 mg/kg
Total BTEX 50 mg/kg
TPH 1,000 mg/kg

The following soil samples from August 21, 2007, exceeded the RRAL for TPH:

Location	Depth (Feet BGS)	GRO (mg/Kg)	DRO (mg/Kg)	TPH (mg/Kg)
SP-1	0-2	16	16,000	16,016
SP-2	0-2	0.063	8,100	8,100.063

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SP-3	0-2	0.63	8,100	8,100.63
SP-3	2 – 4	0.47	5,800	5,800.47
SP-6	0-2	< 0.035	1,300	1,300
SP-9	0-2	< 0.032	4,500	4,500

No samples exceeded the RRAL for benzene and total BTEX. Chloride was below 250 milligrams per kilogram (mg/Kg) in all samples, except SP-9, 6 to 8 feet bgs which reported a chloride concentration of 570 mg/Kg.

On September 4, 2007, LAI personnel collected additional samples near SP-3 (Location 1) to assess the vertical extent of the TPH. The samples were collected each foot (i.e., 0 to 1', 1 to 2', 2 to 3', etc.) to approximately 11 feet bgs using a backhoe. These samples were submitted under chain of custody control to Test America, Inc. which analyzed the samples for TPH, including GRO and DRO, chloride and BTEX. The RRAL for TPH was exceeded in samples from 0 to 1 feet bgs (4,000 mg/Kg), 1 to 2 feet bgs (6,701 mg/Kg), 2 to 3 feet bgs (3,300 mg/Kg), 6 to 7 feet bgs (3,100 mg/Kg), 7 to 8 feet bgs (1,500 mg/Kg), 9 to 10 feet bgs (9,530 mg/Kg) and 10 to 11 feet bgs (9,440 mg/Kg). Benzene and total BTEX was below the RRAL and chloride was less than 250 mg/Kg. Table 3 presents a summary of the TPH and chloride results. Table 4 presents a summary of the BTEX results.

Remediation

On August 17, 2007, remediation commenced and soil was excavated to approximately 1 foot bgs over much of the Site. The excavation was extended to approximately 15 feet bgs near sample location SP-3. The soil was hauled to the JHHC centralized surface waste management facility (NM-02-021) located northwest of Jal, New Mexico.

On September 13, 2007, LAI personnel collected soil samples at ten (10) locations (SS-1 through SS-10) to assess the TPH concentration following soil removal. The TPH in samples SS-1 through SS-10 was less than 50 mg/Kg. Benzene and total BTEX was below the RRAL. Chloride was less than 250 mg/Kg in all samples except SS-5 which reported a concentration of 260 mg/Kg. Table 5 presents the TPH and chloride data. Table 6 presents the BTEX analysis.

On September 13, 2007 and October 1, 2007, LAI personnel collected samples at various depths from the bottom and sides of the excavation near SP-3. These samples were analyzed for TPH, including GRO and DRO, and chloride. The TPH exceeded the RRAL is samples from the north bottom at 45 feet bgs (1,528 mg/Kg) and 50 feet bgs (2,645 mg/Kg), and north side at 15 feet bgs (1,863 mg/Kg) and 40 feet bgs (2,085 mg/Kg). The sample from the north side at approximately 40 feet bgs was analyzed for BTEX and was below RRAL for benzene and total BTEX. Chloride was less than 250 mg/Kg. Table 7 presents a summary of the TPH and chloride analysis. Table 8 presents the BTEX analysis.

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On October 10 and 11, 2007, LAI personnel supervised soil sampling from five (5) air-rotary drilled borings (BH-1 through BH-5) which were installed to assess the horizontal and vertical extent of the TPH. Scarborough Drilling, Inc. collected samples every ten (10) feet to approximately 50 feet bgs using a jam tube sampler. The samples were collected in the method previously described, chilled in an ice chest and submitted under chain of custody control to Environmental Lab of Texas, Inc. (ELOT) which analyzed the samples for TPH and chloride. TPH was reported below the RRAL in all samples except BH-4, 40 feet bgs (1,319.4 mg/Kg) which is located north of boring BH-2. Soil samples from boring BH-2 did not report TPH above the RRAL. It is therefore assumed that the TPH in samples from boring BH-4 is from a source unrelated to the Site. Chloride was less than 250 mg/Kg in all samples. Table 9 presents a summary of the TPH and chloride analysis. Appendix B presents the boring logs. Appendix C presents photographs.

On October 11, 2007, Scarborough Drilling, Inc. used water-rotary drilling to install a temporary monitoring well (TMW-1) near the southeast corner of the excavation. The well was advanced to approximately 110 feet bgs and constructed with 2-inch schedule 40 PVC casing. Twenty (20) feet of factory slotted screen was installed near the bottom of the well and soil samples were collected every ten (10) feet to approximately fifty (50) feet bgs using a jam tube sampler. The soil samples were analyzed by ELOT for TPH using method SW-846-8015 modified and chloride using method 300. TPH was not reported in any sample above 15 mg/Kg and chloride was below 250 mg/Kg. Table 9 presents a summary of the laboratory analysis. Figure 2 presents the well location. Appendix B presents the well completion record.

On October 14, 2007, LAI personnel developed the temporary well by pumping approximately 150 gallons of water using an electric submersible pump. The well was pumped until the water was not turbid. The water was contained in a portable tank, picked up by vacuum truck and disposed at an OCD permitted Class II disposal well. On October 15, 2007, LAI personnel collected water samples from the well using a dedicated disposable polyethylene bailer. Three (3) casing-volumes of groundwater was purged from the well before samples were carefully transferred to laboratory-preserved containers, which were chilled in an ice chest and delivered under chain of custody control to DHL Analytical, Inc., located in Round Rock, Texas. The laboratory analyzed the samples for BTEX, dissolved metals (arsenic, barium, cadmium, chromium, lead, magnesium, mercury, potassium, selenium, silver and sodium) and general inorganic parameters (chloride, fluoride, nitrate, sulfate, alkalinity, pH and total dissolved solids). The temporary well was plugged according to NMSE rules. Table 10 presents a summary of the laboratory analysis.

Referring to Table 10, no organic constituents (BTEX) were reported in the water sample above test method detection limits. No inorganic constituents, except fluoride, were detected in the water sample above the New Mexico Water Quality Control Commission (WCQQ) human health or domestic water quality standards. Fluoride was 3.21 milligrams per liter (mg/L) and exceeded the WQCC human health standard of 1.6 mg/L. The fluoride concentration is consistent with the regional groundwater quality for the Ogallala aquifer.

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Conclusions

- A temporary monitoring well installed at the Site confirmed that groundwater is present in the Ogallala formation at approximately 91.50 feet bgs;
- TPH was below the RRAL of 1,000 mg/Kg in all confirmation samples except from the north side of the excavation where TPH 2,645 mg/Kg at approximately 50 feet bgs;
- The vertical and horizontal extent of the TPH was delineated and is limited to the north side of the excavation;
- Benzene and BTEX was below the RRAL of 10 mg/Kg and 50 mg/Kg, respectively, in confirmation samples from the excavation and delineation samples from soil borings;
- Chloride was below 250 mg/Kg in all confirmation samples except sample SS-5 collected from approximately 1 foot bgs on the west side of the Site where chloride was 260 mg/Kg; and
- Groundwater samples from the temporary monitoring well reported no organic or inorganic
 constituents, except fluoride, above the WQCC human health or domestic water quality
 thresholds. Fluoride was reported in the groundwater sample at 3.21 mg/L and exceeded the
 WQCC standard of 1.6 mg/L. The fluoride concentration is consistent with the groundwater
 quality of the Ogallala aquifer.

Recommendation

Based on these findings, JHHC requests permission from OCD to fill the excavation with clean soil. Appendix D presents the initial and final C-141 forms. Please contact Mr. Marvin Burrows with JHHC at (505) 394-2649 or myself at (432) 687-0901 if you have any questions. We may be reached by email at mburrows@valornet.com or mark@laenvironmental.com. Sincerely,

Larson & Associates, Inc.

Mark J. Larson, P.G., C.P.G., C.G.W.P. Sr. Project Manager / President

Encl.

cc: Mr. Marvin Burrows JHHC

Mr. Ron Westbrook - JHHC

Mr. Larry Johnson – NMOCD District 1

507 North Marienfeld, Suite 202 ◆ Midland, Texas 79701 ◆ Ph. (432) 687-0901 ◆ Fax (432) 687-0456

TABLES

Table 1 1RP-1454

Summary of Laboratory Analysis of Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	PID	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride				
RRAL:	RAL: 1000										
SP-1	0-2'	8/21/07	93	16	16,000	16,016	9.5				
	2-4'	8/21/07	0.1	0.057	44	44.057	. 6.5				
	4-6'	8/21/07	0				7.0				
	6-8'	8/21/07	0.1				6.9				
SP-2	0-2'	8/21/07	1.8	0.63	8,100	8,100.63	240				
	2-4'	8/21/07	0.1	<0.04	25	25	130				
	4-6'	8/21/07	0.1				21				
	6-7'	8/21/07	0.1				5.6				
SP-3	0-2'	8/21/07	2.1	0.18	2,500	2,500.18	61				
	2-4'	8/21/07	3.2	0.47	5,800	5,800.47	22				
SP-4	0-2'	8/21/07	0.1	0.033	12	12.033	29				
	2-4'	8/21/07	0.1	<0.032	<4.2	<4.2032	55				
SP-5	0-2'	8/21/07	0.1	<0.033	150	150	170				
:	2-4'	8/21/07	0.1	<0.036	<4.2	<4.2036	150				
SP-6	0-2'	8/21/07	0.1	<0.035	1,300	1,300	7				
	2-4'	8/21/07	0.1	<0.029	<4.2	<4.2029	8				
,	4-5.5'	8/21/07	0.1				6.7				
SP-7	0-2'	8/21/07	0.1	<0.032	26	26	7.3				
	2-4'	8/21/07	0.1	<0.027	<4.2	<4.2027	5.3				

Table 1 1RP-1454

Summary of Laboratory Analysis of Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	· Date	PID	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride				
RRAL:	RAL: 1000										
SP-8	0-2'	8/21/07	0.1	<0.030	15	15	5.6				
	2-4'	8/21/07	0.1	<0.030	7.3	7.3	<1.4				
SP-9	0-2'	8/21/07	0.1	<0.032	4,500	4,500	6.7				
	2-4'	8/21/07	0.1	<0.033	<4.2	<4.2033	9.7				
	4-6'	8/21/07	0.1				8.9				
	6-8'	8/21/07	0.1				570				
SP-10	0-2'	8/21/07	0.1	<0.026	43	43	5.1				
	2-4'	8/21/07	0.1	<0.026	<4.2	<4.2026	6.7				

Notes: Analysis performed by TestAmerica, Corpus Christi, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. GRO:

Gasoline - range organics

2. DRO:

Diesel - range organics

3. TPH:

Total Petroleum Hydrocarbons (Sum of GRO + DRO)

4. <:

Less than method detection limit

5. --:

No data available

Table 2 1RP-1454

Summary of BTEX Analysis of Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX			
RRAL:	RRAL:									
SP-1	0-2'	8/21/07	<0.085	<0.088	<0.084	2.5	2.5			
SP-2	0-2	8/21/07	0.0057	0.0026	<0.0019	<0.0058	0.0083			
SP-3	0-2'	8/21/07	<0.0017	<0.0018	<0.0019	<0.0058	<0.0112			
SP-4	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-5	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-6	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-7	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-8	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-9	0-2'	8/21/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111			
SP-10	0-2'	8/21/07	<0.0017	<0.0018	<0.0019	<0.0058	<0.0112			

Notes: Analysis performed by TestAmerica, Corpus Christi, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. <: Less than method detection limit

Table 3

1RP-1454

Summary of Laboratory Analysis of Preliminary Soil Samples for Location 1

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride				
RRAL:	RRAL: 1000									
Location 1	0-1'	9/4/07	0.43	4,000	4,000	15				
	1-2'	9/4/07	0.80	6,700	6,701	65				
	2-3'	9/4/07	0.37	3,300	3,300	80				
	3-4'	9/4/07	0.15	230	230	92				
	4-5'	9/4/07	<0.033	300	300	8.1				
	5-6'	9/4/07	<0.033	540	540	29				
	6-7'	9/4/07	0.42	3,100	3,100	12				
	7-8'	9/4/07	0.24	1,500	1,500	8.2				
	8-9'	9/4/07	0.99	730	730	9.2				
	9-10'	9/4/07	130	9,400	9,530	21				
	10-11'	9/4/07	940	8,500	9,440	34				

Notes: Analysis performed by TestAmerica, Corpus Christi, Texas

Results are reported in milligrams per kilogram (mg/Kg)

GRO: Gasoline - range organics
 DRO: Diesel - range organics

3. TPH: Total Petroleum Hydrocarbons (Sum of GRO + DRO)

4. <: Less than method detection limit

Table 4

1RP-1454

Summary of BTEX Analysis of Soil Samples for Location 1

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
·	•				•	•	
RRAL:			10				50
Location 1	0-1'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111
	1-2'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111
	2-3'	9/4/07	<0.0017	<0.0018	0.0046	0.0070	0.0116
	3-4'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111
	4-5'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0057	<0.0010
	5-6'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111
	6-7'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111
	7-8'	9/4/07	<0.0016	<0.0018	· <0.0019	<0.0058	<0.0111
	8-9'	9/4/07	<0.0016	<0.0018	<0.0019	<0.0057	<0.0010
	9-10'	9/4/07	<0.043	<0.044	<0.042	0.89	0.89
	10-11'	9/4/07	<0.043	<0.044	3.2	31	34.2

Notes: Analysis performed by TestAmerica, Corpus Christi, Texas Results are reported in milligrams per kilogram (mg/Kg)

1. <: Less than method detection limit

Table 5 1RP-1454

Summary of Laboratory Analysis of Confirmation Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride		
RRAL:	RAL:							
SS-1	1'	9/13/07	<0.0580	5.02	5.02	7.3		
SS-2	1'	9/13/07	<0.0603	30.7	30.7	86		
SS-3	1' .	9/13/07	<0.0567	13	13	120		
SS-4	1'	9/13/07	<0.0605	12.8	12.8	150		
SS-5	1'	9/13/07	<0.0571	5.3	5.3	260		
SS-6	1'	9/13/07	<0.0548	6.82	6.82	6.6		
SS-7	1'	9/13/07	<0.0607	4.67	4.67	6.4		
SS-8	1'	9/13/07	<0.0621	6.44	6.44	6.7		
SS-9	2'	9/13/07	<0.0636	19.6	19.6	12		
SS-10	1'	9/13/07	<0.0606	7.36	7.36	14		

Notes: Chloride analysis performed by TestAmerica, Corpus Christi, Texas GRO & DRO analyses performed by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. GRO:

Gasoline - range organics

2. DRO:

Diesel - range organics

3. TPH:

Total Petroleum Hydrocarbons (Sum of GRO + DRO)

4. <:

Less than method detection limit

5. --:

No data available

Table 6

1RP-1454

Summary of BTEX Analysis of Confirmation Soil Samples
John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX		
RRAL:	RAL:								
SS-1	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-2	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-3	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-4	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-5	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-6	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-7	1'	9/14/07	<0.0017	<0.0018	<0.0019	<0.0058	<0.0112		
SS-8	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		
SS-9	2'	9/14/07	0.0017	0.0020	<0.0019	0.0067	0.0104		
SS-10	1'	9/14/07	<0.0016	<0.0018	<0.0019	<0.0058	<0.0111		

Notes: Analysis performed by TestAmerica, Corpus Christi, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. <: Less than method detection limit

Table 7 1RP-1454

Summary of Laboratory Analysis of Preliminary Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth (Feet BGS)	Date	PID	GRO C6 - C12	DRO C12 - C28	Total TPH C6 - C28	Chloride				
RRAL:	RRAL: 1000										
North/Bottom	50	10/1/07		635	2,010	2,645	67				
North/Bottom	45	10/1/07		328	1,200	1,528	55.2				
North/Bottom	40	9/13/07	229.8	505	1,580	2,085	45				
North/Bottom	35	9/13/07	110	104	496	600	70.4				
Northwest/Side	35	9/13/07	5.6	<11	19.8	19.8	70.3				
Northeast/Side	35	9/13/07	8.2	<11.1	<11.1	<11.1	82.6				
Southwest/Side	32	9/13/07	1.3	<11.7	24.7	24.7	49.8				
Southeast/Side	32	9/13/07	12.4	<11.8	<11.8	<11.8	188				
South/Side	15	9/13/07	1.9	37.3	146	183.3	35.4				
East/Side	15	9/13/07	3.6	<10.8	120	120	91.9				
North/Side	15	9/13/07	5.9	43	1,820	1,863	44.7				
West/Side	15	9/13/07	22.8	36	161	197	69.7				

Notes: Analysis performed by Environmental Lab of Texas, Odessa, Texas

Results are reported in milligrams per kilogram (mg/Kg)

GRO: Gasoline - range organics
 DRO: Diesel - range organics

3. TPH: Total Petroleum Hydrocarbons (Sum of GRO + DRO)

4. <: Less than method detection limit

Table 8

1RP-1454

Summary of BTEX Analysis of Preliminary Soil Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
RRAL:			10				50
North	40'	9/28/07	<0.0011	0.0078	0.0655	0.4998	0.5731

Notes: Analysis performed by Environmental Lab of Texas, Odessa, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. <:

Less than method detection limit

2. --:

No data available

Table 9 1RP-1454

Summary of Laboratory Analysis of Boring Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

Sample	Depth	Date	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride
RRAL:				,	1000	
TMW1	0'	10/10/07	<10.7	13.2	13.2	114
	10'	10/10/07	<11.1 ´	<11.1	<11.1	176
	20'	10/10/07	<11.8	13.3	13.3	150
	30'	10/10/07	<10.6	<10.6	·<10.6	90.4
	40'	10/10/07	<10.4	<10.4	<10.4	88.1
	50'	10/10/07	<10.2	12.4	12.4	87.2
BH-1	0'	10/10/07	<10.4	11.6	11.6	88.2
	10'	10/10/07	<10.5	36	36	245
	20'	10/10/07	<10.5	25	25	189
,	30'	10/10/07	<10.4	10.4	10.4	155
	40'	10/10/07	<10.2	10.3	10.3	141
	50'	10/10/07	<10.2	<10.2	<10.2	64.8
BH-2	0'	10/10/07	10.40	404	414.40	54.8
	10'	10/10/07	<10.5	13.5	13.5	55.6
	20'	10/10/07	<10.6	<10.6	<10.6	226
	30'	10/10/07	<10.5	<10.5	<10.5	223
	40'	10/10/07	<10.2	<10.2	<10.2	120
	50'	10/10/07	<10.2	<10.2	<10.2	65
	60'	10/10/07	<10.1	12.2	12.2	53.7
	70'	10/10/07	<10.1	10.1	10.1	42.9

Table 9 1RP-1454

Summary of Laboratory Analysis of Boring Samples

John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

	Eca county, vew McAico					
Sample	Depth	Date	GRO C6 - C10	DRO C10 - C28	Total TPH C6 - C28	Chloride
RRAL:					1000	
BH-3	0'	10/11/07	<10.4	12.5	12.5	128
	10'	10/11/07	<10.7	11.1	11.1	42.5
	20'	10/11/07	<11.1	<11.1	<11.1	191
	30'	10/11/07	<10.4	11.7	11.7	128
	40'	10/11/07	<10.1	<10.1	<10.1	85.1
·	50'	10/11/07	<10.2	<10.2	<10.2	42.5
ВН-4	0'	10/11/07	<10.3	54	54	43
	10'	10/11/07	<10.7	16.2	16.2	85.1
	20'	10/11/07	<10.3	<10.3	<10.3	63.8
	30'	10/11/07	<10.5	<10.5	<10.5	170
	40'	10/11/07	59.4	1,260	1,319.4	95.7
BH-5	0'	10/11/07	<10.5	<10.5	<10.5	53.2
	10'	10/11/07	<11.0	<11.0	<11.0	128
	20'	10/11/07	<10.5	<10.5	<10.5	42.5
	30'	10/11/07	<10.3	74.1	74.1	42.5
	40'	10/11/07	<10.2	<10.2	<10.2	42.5

Notes: Analysis performed by Environmental Laboratories of Texas, Odessa, Texas

Results are reported in milligrams per kilogram (mg/Kg)

1. GRO:

Gasoline - range organics

2. DRO:

Diesel - range organics

3. TPH:

Total Petroleum Hydrocarbons (Sum of GRO + DRO)

4. <:

Less than method detection limit

5. --:

No data available

Table 10 1RP-1454

Summary of Laboratory Analysis of Monitor Well Sample John H. Hendrix Corporation, Frisco State A Tank Battery

Lea County, New Mexico

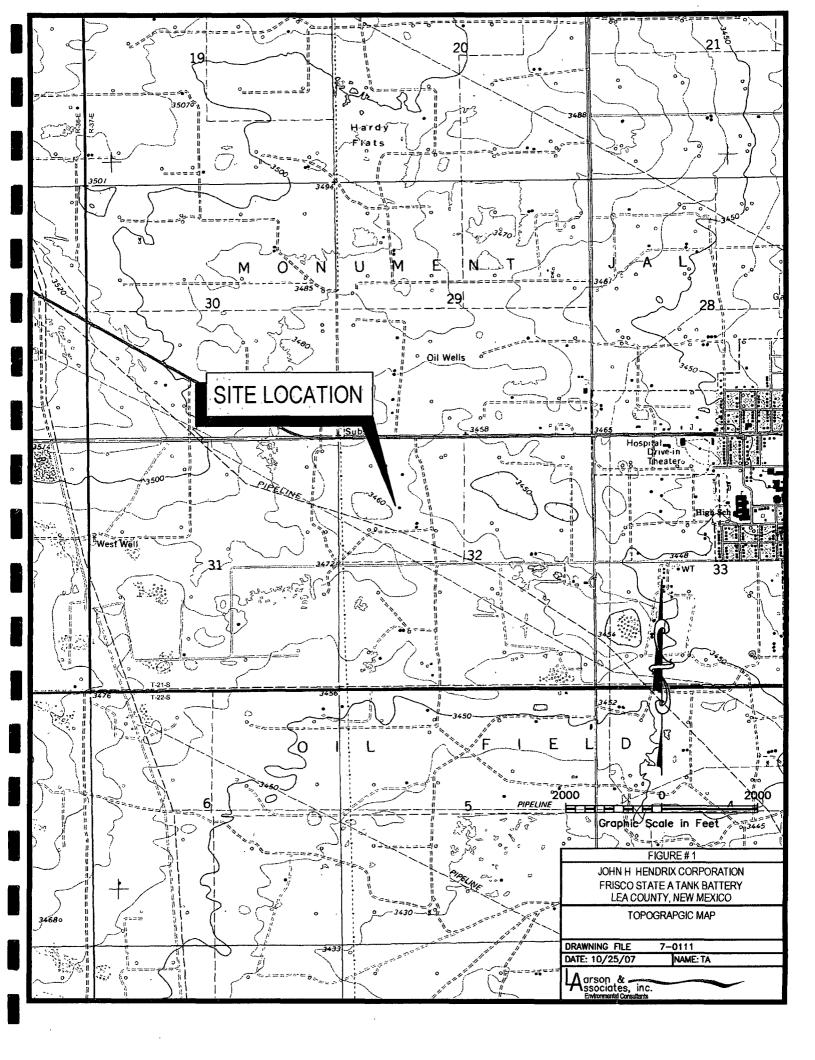
Lea County, New Mexico								
Parameter	Reporting Units	EPA/NMED Threshold	TMW-1 10/15/07					
Characteristics								
Chloride	mg/L	250	62					
Fluoride	mg/L	1.6	3.21					
. Nitrate-N	mg/L	10	1.59					
Sulfate	mg/L	600	92					
Alkalinity, Bicarbonate	mg/L		218					
Alkalinity, Carbonate	mg/L		<10					
Alkalinity, Hydroxide	mg/L		<10					
Alkalinity, Total	mg/L		218					
рН	pH units	6 - 9	7.38					
Total Dissolved Solids	mg/L	1,000	516					
Volatile Organics								
Benzene	mg/L	0.01	<0.0008					
Ethylbenzene	mg/L	0.75	<0.002					
Toluene	mg/L	0.75	<0.002					
Total Xylenes	mg/L	0.62	< 0.003					
Total BTEX	mg/L		<0.0078					
Metals								
Arsenic	mg/L	0.1	0.0156					
Barium	mg/L	1.0	0.0461					
Cadmium	mg/L	0.01	< 0.0003					
Calcium	mg/L		45.2					
Chromium	mg/L	0.05	<0.002					
Lead	mg/L	0.05	<0.0003					
Magnesium	mg/L		19.7					
Mercury	mg/L	0.002	<0.0008					
Potassium	mg/L		4.55					
Selenium	mg/L	0.05	0.00608					
Silver	mg/L	0.05	<0.001					
Sodium	mg/L		83.4					

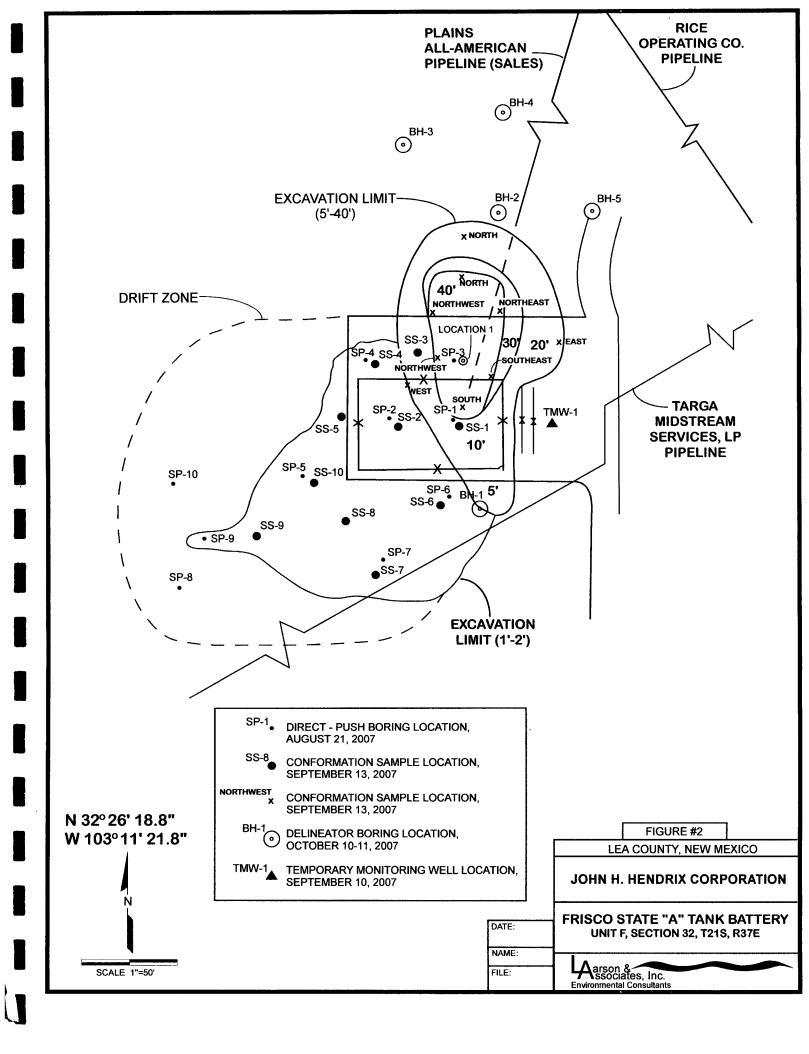
Notes: Analysis performed by DHL Analytical, Inc., Round Rock, Texas

1. mg/L: Milligrams per liter

2. <: Below method detection limit

FIGURES





APPENDIX A

Laboratory Reports



RECEIVED							
SEP	3	2007					
BY:							

ANALYTICAL REPORT

Job Number: 560-6163-1

Job Description: General Analysis

For:
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, TX 79701

Attention: Ms. Michelle Green

Juli Dana

Julie Darrow
Project Manager I
jdarrow@stl-inc.com
08/28/2007

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Corpus Christi Certifications and Approvals: NELAC TX T104704210-06-TX, NELAC KS E-10362, Oklahoma 9968, USDA Soil Permit S-42935 Revised.



Job Narrative 560-J6163-1

Diesel Range Organics

Samples 560-6163-10, 15, and 22 were analyzed for Diesel Range Organics (DRO) using EPA Method 8015B in batch 560-14567. The percent recovery results for the surrogates associated with samples 10, 15, and 22 were below the acceptance criteria for o-terphenyl due to matrix interference and sample dilution. Therefore, re-extraction and re-analysis was not performed. The method blank and LCS were within acceptable limits and the data are therefore reported.

Samples 560-6163-1-2, 5-6, 9-16, 18-23, 26, 27 were analyzed for Diesel Range Organics (DRO) using EPA Method 8015B in batch 560-14567. No matrix spike or matrix spike duplicate was analyzed with this batch due to a limited amount of sample available for analysis; however, a LCS and LCSD were analyzed. The data are therefore reported

Aromatic Volatile Organics (BTEX) Analysis

Samples 560-6163-5 and 9 were analyzed for BTEX analysis using EPA Method 8021B in batch 560-14508. The percent recovery result for the matrix spike associated with this batch and sample 9 was below the acceptance criteria for ethylebenzene. In addition, the RPD for the spiked pair was outside the control limits for various analytes. The method blank and LCS were within acceptable limits and the data are therefore reported. Furthermore, the percent recovery results for the surrogates associated with samples 5, 9, 9 MS, and 9 MSD were outside the acceptance limits for 4-bromofluorobenzene and /or trifluorotoluene. The method blank and LCS were within acceptable limits and the out of control data are due to matrix interference. Therefore the samples were not re-extracted or re-analyzed. The data are therefore reported.

Sample 560-6163-1 was analyzed for BTEX analysis using EPA Method 8021B in batch 560-14507. The percent recovery results for the surrogates associated with sample 1 were below the acceptance criteria for 4-bromofluorobenzene and trifluorotoluene. The method blank and LCS were within acceptable limits and the out of control data are due to matrix interference. Therefore the samples were not re-extracted or re-analyzed. The data are therefore reported.

No other analytical or quality issues were noted.

Client: Larson & Associates, Inc.

Lab Sample ID Analyte	Client Sample ID	Result / Q	tualifier	Reporting Limit	Units	Method	
560-6163-1	SP1, 0-2						
Gasoline Range Or Xylenes, Total Diesel Range Orga	rganics (GRO)-C6-C10 nics [C10-C28]	16 2.5 16000	B J	0.48 5.2 2500	mg/Kg mg/Kg mg/Kg	8015M 8021B 8015B	
Soluble Chloride-S		9.5		5.0	mg/Kg	300.0	
560-6163-2	SP1, 2-4						
Gasoline Range Or Diesel Range Orga	ganics (GRO)-C6-C10 inics [C10-C28]	0.057 44	JB J	0.10 50	mg/Kg mg/Kg	8015M 8015B	
Soluble Chloride-S		6.5		5.0	mg/Kg	300.0	
560-6163-3	SP1, 4-6						T.
Soluble Chloride-S		7.0		5.0	mg/Kg	300.0	
560-6163-4	SP1, 6-8						
Soluble Chloride-S		6.9		. 5.0	mg/Kg	300.0	
560-6163-5	SP2, 0-2						
Gasoline Range Or Benzene Toluene Diesel Range Orga	rganics (GRO)-C6-C10	0.63 0.0057 0.0026 8100	B J	0.099 0.0043 0.0043 2500	mg/Kg mg/Kg mg/Kg mg/Kg	8015M 8021B 8021B 8015B	
Soluble Chloride-S		240		25	mg/Kg	300.0	
560-6163-6	SP2, 2-4						
Diesel Range Orga	nics [C10-C28]	25	J	50	mg/Kg	8015B	
Soluble Chloride-S		130		5.0	mg/Kg	300.0	

Client: Larson & Associates, Inc.

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
560-6163-7	SP2, 4-6				
Soluble Chloride-S		21	5.0	mg/Kg	300.0
560-6163-8	SP2, 6-7				
Soluble Chloride-S		• 5.6	5.0	mg/Kg	300.0
560-6163-9	SP3, 0-2				
Gasoline Range Or Diesel Range Orga	ganics (GRO)-C6-C10 nics [C10-C28]	0.18 B 2500 J	0.10 2500	mg/Kg mg/Kg	8015M 8015B
Soluble Chloride-S		61	5.0	mg/Kg	300.0
560-6163-10	SP3, 2-4				
Gasoline Range Or Diesel Range Orga	ganics (GRO)-C6-C10 nics [C10-C28]	0.47 B 5800	0.11 2500	mg/Kg mg/Kg	[°] 8015M 8015B
Soluble Chloride-S		22	5.0	mg/Kg	300.0
560-6163-11	SP4, 0-2				
Diesel Range Orga	nics [C10-C28]	12 J	50	mg/Kg	8015B
Soluble Chloride-S		29	5.0	mg/Kg	300.0
560-6163-12	SP4, 2-4				
Soluble Chloride-S		55	5.0	mg/Kg	300.0
560-6163-13 Diesel Range Orga	SP5, 0-2 nics [C10-C28]	150 J	500	mg/Kg	8015B
Soluble Chloride-S		170	25	mg/Kg	300.0

Client: Larson & Associates, Inc.

Lab Sample ID Client Sample ID Reporting Result / Qualifier Limit Units Method **Analyte** 560-6163-14 SP5, 2-4 Soluble 150 5.0 300.0 Chloride-S mg/Kg 560-6163-15 SP6, 0-2 mg/Kg Diesel Range Organics [C10-C28] 1300 2500 8015B Soluble 6.5 300.0 Chloride-S 5.0 mg/Kg 560-6163-16 SP6, 2-4 Soluble Chloride-S 8.0 5.0 300.0 mg/Kg 560-6163-17 SP6, 4-5.5 Soluble Chloride-S 6.7 5.0 mg/Kg 300.0 560-6163-18 SP7, 0-2 8015B Diesel Range Organics [C10-C28] 26 J 50 mg/Kg Soluble Chloride-S 7.3 5.0 mg/Kg 300.0 560-6163-19 SP7, 2-4 Soluble Chloride-S 5.3 5.0 300.0 mg/Kg 560-6163-20 SP8, 0-2 Diesel Range Organics [C10-C28] 8015B 15 J 50 mg/Kg Soluble Chloride-S 5.6 5.0 300.0 mg/Kg 560-6163-21 SP8, 2-4 Diesel Range Organics [C10-C28] 7.3 J 50 8015B mg/Kg

Client: Larson & Associates, Inc.

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
560-6163-22	SP9 0-2				
Diesel Range Orga	nics [C10-C28]	4500	2500	mg/Kg	8015B
Soluble Chloride-S		6.7	5.0	mg/Kg	300.0
560-6163-23	SP9, 2-4				
Soluble Chloride-S		9.7	5.0	mg/Kg	300.0
560-6163-24	SP9, 4-6				
Soluble Chloride-S	,	8.9	5.0	mg/Kg	300.0
560-6163-25	SP9, 6-8				
Soluble Chloride-S		570	25	mg/Kg	300.0
560-6163-26	SP10, 0-2				
Diesel Range Orga	nics [C10-C28]	43 J	50	mg/Kg	8015B
Soluble Chloride-S		5.1	5.0	mg/Kg	300.0
560-6163-27	SP10, 2-4				
<i>Soluble</i> Chloride-S		6.7	5.0	mg/Kg	300.0

METHOD SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
GRO by 8015M Closed System Purge & Trap	TAL PEN TAL PEN	SW846 8015M	SW846 5035A
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ELCD	TAL CC	SW846 8021B	
Purge and Trap for Methanol Extractions	TAL CC		SW846 5030B
Purge and Trap for Solids	TAL CC		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL CC	SW846 8015B	
Ultrasonic Extraction	TAL CC		SW846 3550B
Anions by Ion Chromatography	TAL CC	MCAWW 300.0)
Deionized Water Leaching Procedure (Routine)	TAL CC		ASTM NONE

Lab References:

TAL CC = TestAmerica Corpus Christi

TAL PEN = TestAmerica Pensacola

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Larson & Associates, Inc.

Method	Analyst	Analyst ID	
SW846 8015M	Khramova, Galina	GK	
SW846 8021B SW846 8021B	Gonzales, Roman J Haas, Richard	RJG RH	
SW846 8015B	Cady, Iryna M	IMC	
MCAWW 300.0	Zwierzykowski, Hanna M	HMZ	

SAMPLE SUMMARY

Client: Larson & Associates, Inc.

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
560-6163-1	SP1, 0-2	Soil	08/21/2007 0925	08/22/2007 1006
560-6163-2	SP1, 2-4	Soil	08/21/2007 0925	08/22/2007 1006
560-6163-3	SP1, 4-6	Soil	08/21/2007 0935	08/22/2007 1006
560-6163-4	SP1, 6-8	Soil	08/21/2007 0935	08/22/2007 1006
560-6163-5	SP2, 0-2	Soil	08/21/2007 0950	08/22/2007 1006
560-6163-6	SP2, 2-4	Soil	08/21/2007 0950	08/22/2007 1006
560-6163-7	SP2, 4-6	Soil	08/21/2007 1000	08/22/2007 1006
560-6163-8	SP2, 6-7	Soil	08/21/2007 1000	08/22/2007 1006
560-6163-9	SP3, 0-2	Soil	08/21/2007 1025	08/22/2007 1006
560-6163-10	SP3, 2-4	Soil	08/21/2007 1025	08/22/2007 1006
560-6163-11	SP4, 0-2	Soil	08/21/2007 1040	08/22/2007 1006
560-6163-12	SP4, 2-4	Soil	08/21/2007 1040	08/22/2007 1006
560-6163-13	SP5, 0-2	Soil	08/21/2007 1100	08/22/2007 1006
560-6163-14	SP5, 2-4	Soil	08/21/2007 1100	08/22/2007 1006
560-6163-15	SP6, 0-2	Soil	08/21/2007 1230	08/22/2007 1006
560-6163-16	SP6, 2-4	Soil	08/21/2007 1230	08/22/2007 1006
560-6163-17	SP6, 4-5.5	Soil	08/21/2007 1240	08/22/2007 1006
560-6163-18	SP7, 0-2	Soil	08/21/2007 1255	08/22/2007 1006
560-6163-19	SP7, 2-4	Soil .	08/21/2007 1255	08/22/2007 1006
560-6163-20	SP8, 0-2	Soil	08/21/2007 1308	08/22/2007 1006
560-6163-21	SP8, 2-4	Soil	08/21/2007 1308	08/22/2007 1006
560-6163-22	SP9 0-2	Soil	08/21/2007 1320	08/22/2007 1006
560-6163-23	SP9, 2-4	Soil	08/21/2007 1320	08/22/2007 1006
560-6163-24	SP9, 4-6	Soil	08/21/2007 1325	08/22/2007 1006
560-6163-25	SP9, 6-8	Soil	08/21/2007 1325	08/22/2007 1006
560-6163-26	SP10, 0-2	Soil	08/21/2007 1337	08/22/2007 1006
560-6163-27	SP10, 2-4	Soil	08/21/2007 1337	08/22/2007 1006

SAMPLE RESULTS

Client Sample ID: SP1, 0-2 Lab Sample ID: 560-6163-1 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0925 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M Prep Method: 5035A Gasoline Range Organics (GRO)-C6-C10	16	В		•	4/2007 0405 3/2007 0955 0.48	1.0
Surrogate a,a,a-Trifluorotoluene (fid)	92	_	%		ceptance Limits 60 - 134	
Method: 8021B Prep Method: 5030B			Date Pr	epared: 08/2	2/2007 1344 2/2007 0730	
Benzene Toluene	0.085 0.088	U U	mg/Kg mg/Kg	0.085 · 0.088	0.87 1.7	1.0
Ethylbenzene Xylenes, Total	0.084 2.5	J N	mg/Kg mg/Kg	0.084 0.22	0.87 5.2	1.0 1.0
Surrogate 4-Bromofluorobenzene (Surr) Trifluorotoluene (Surr)	75 0	x	% %	Ac	ceptance Limits 47 - 120 35 - 132	
Method: 8015B Prep Method: 3550B Diesel Range Organics [C10-C28]	, 16000			,	24/2007 1723 22/2007 1200 2500	50
Surrogate o-Terphenyl	131		%		ceptance Limits 29 - 140	
Method: Soluble-300.0 Chloride	9.5		Date Ar mg/Kg	nalyzed: 08/2 1.4	2/2007 1411 5.0	1.0

Client Sample ID: SP1, 2-4 Lab Sample ID: 560-6163-2 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0925 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed:	08/24/2007 1154	
Prep Method: 5035A			Date Pr	epared:	08/24/2007 0934	
Gasoline Range Organics (GRO)-C6-C10	0.057	JB	mg/Kg	0.033	0.10	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	100		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	08/24/2007 1732	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	44	J	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	110		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed:	08/22/2007 1411	
Chloride	6.5		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP1, 4-6 Lab Sample ID: 560-6163-3 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0935 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Soluble-300.0		Date Analyzed: 08/22/2007 1411		08/22/2007 1411	
Chloride	7.0	mg/Kg	1.4	5.0	1.0

Client Sample ID: SP1, 6-8 Lab Sample ID: 560-6163-4 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0935 Date Received: 08/22/2007 1006

Analyte	Result/Qualif	ier Unit	MDL	RL	Dilution
Method: Soluble-	300.0	Date /	Date Analyzed: 08/22/2007		
Chloride	6.9	mg/Kg	1.4	5.0	1.0

Job Number: 560-6163-1

Client Sample ID: SP2, 0-2 Lab Sample ID: 560-6163-5 Date Sampled: 08/21/2007 0950 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution	
Method: 8021B			Date Analyzed: 08/23/2007 0913				
Prep Method: 5030B			Date Pro	epared: 08/23	/2007 0913		
Benzene	0.0057		mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0026	J	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	15	Χ	%		51 - 127		
Trifluorotoluene (Surr)	38	Х	%		50 - 129		

Client Sample ID: SP2, 0-2 Lab Sample ID: 560-6163-5 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0950 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed: 08/2	4/2007 1220	
Prep Method: 5035A			Date Pr	epared: 08/2	4/2007 0934	
Gasoline Range Organics (GRO)-C6-C10	0.63	В	mg/Kg	0.033	0.099	1.0
Surrogate			Acceptance Limits			3
a,a,a-Trifluorotoluene (fid)	105		%		60 - 134	
Method: 8015B			Date An	alyzed: 08/2	4/2007 1740	
Prep Method: 3550B			Date Pr	epared: 08/2	2/2007 1200	
Diesel Range Organics [C10-C28]	8100		mg/Kg	210	2500	50
Surrogate				Acc	ceptance Limits	3
o-Terphenyl	115		%		29 - 140	
Method: Soluble-300.0			Date An	alyzed: 08/2	2/2007 1411	
Chloride	240		mg/Kg	7.2	25	5.0

Client Sample ID: SP2, 2-4 Lab Sample ID: 560-6163-6 Job Number: 560-6163-1

Date Sampled: 08/21/2007 0950 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed:	08/23/2007 1834	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.040	, U	mg/Kg	0.040	0.12	1.0
Surrogate	Acceptance Limits					
a,a,a-Trifluorotoluene (fid)	103		%		60 - 134	
Method: 8015B			Date An	alyzed:	08/24/2007 1749	
Prep Method: 3550B			Date Pro	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	25	J	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	110		%		29 - 140	
Method: Soluble-300.0			Date An	alyzed:	08/22/2007 1411	
Chloride	130		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP2, 4-6 Lab Sample ID: 560-6163-7 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1000 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Soluble-300.0		Date Ar	nalyzed: 0	8/22/2007 1411	
Chloride	21	mg/Kg	1.4	5.0	1.0

Job Number: 560-6163-1

Client Sample ID: SP2, 6-7 Lab Sample ID: 560-6163-8 Date Sampled: 08/21/2007 1000 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Soluble-300.0	•	Date An	alyzed: 08/2	2/2007 1411	
Chloride	5.6	mg/Kg	1.4	5.0	1.0

Client Sample ID: SP3, 0-2 Lab Sample ID: 560-6163-9 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1025 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution	
Method: 8021B			Date Analyzed: 08/23/2007 0940				
Prep Method: 5030B			Date Prepared: 08/23/2007 09				
Benzene	0.0017	U	mg/Kg	0.0017	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	28	X	%		51 - 127		
Trifluorotoluene (Surr)	53		%		50 - 129		

Client Sample ID: SP3, 0-2 Lab Sample ID: 560-6163-9 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1025 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed:	08/24/2007 1247	
Prep Method: 5035A			Date Pro	epared:	08/24/2007 0934	
Gasoline Range Organics (GRO)-C6-C10	0.18	В	mg/Kg	0.033	0.10	1.0
Surrogate		Acceptance			Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	98		%		60 - 134	
Method: 8015B			Date An	alyzed:	08/24/2007 1757	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	2500	J	mg/Kg	210	2500	50
Surrogate					Acceptance Limits	
o-Terphenyl	127		%		29 - 140	
Method: Soluble-300.0			Date An	alyzed:	08/22/2007 1411	
Chloride	61		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP3, 2-4 Lab Sample ID: 560-6163-10 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1025 Date Received: 08/22/2007 1006

Analyte	Result/Qu	Result/Qualifier		MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed: 08	23/2007 1929	
Prep Method: 5035A		23/2007 0955				
Gasoline Range Organics (GRO)-C6-C10	0.47	В	mg/Kg	0.037	0.11	1.0
Surrogate				A	cceptance Limits	;
a,a,a-Trifluorotoluene (fid)	105		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: 08	24/2007 1806	
Prep Method: 3550B			Date Pr	epared: 08	22/2007 1200	
Diesel Range Organics [C10-C28]	5800		mg/Kg	210	2500	50
Surrogate				Α	cceptance Limits	;
o-Terphenyl	176	X	%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed: 08	/22/2007 1411	
Chloride	22		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP4, 0-2 Lab Sample ID: 560-6163-11 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1040 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution
Method: 8021B			Date An	nalyzed: 08/22	/2007 1741	
Prep Method: 5030B			Date Prepared: 08/22/2007 1741			
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate		Acceptance Limits				
4-Bromofluorobenzene (Surr)	71		%		51 - 127	
Trifluorotoluene (Surr)	82		%		50 - 129	

Client Sample ID: SP4, 0-2 Lab Sample ID: 560-6163-11 Date Sampled: 08/21/2007 1040 Date Received: 08/22/2007 1006

Job Number: 560-6163-1

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed: 08/2	23/2007 1956	
Prep Method: 5035A			Date Pr	epared: 08/2	23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.033	U	mg/Kg	0.033	0.10	1.0
Surrogate				Ac	ceptance Limits	3
a,a,a-Trifluorotoluene (fid)	107		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: 08/2	24/2007 1814	
Prep Method: 3550B			Date Pr	epared: 08/2	22/2007 1200	
Diesel Range Organics [C10-C28]	12	J	mg/Kg	4.2	50	1.0
Surrogate				Ac	ceptance Limits	5
.o-Terphenyl	102		%		29 - 140	
Method: Soluble-300.è			Date Ar	nalyzed: 08/2	22/2007 1411	
Chloride	29		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP4, 2-4 Lab Sample ID: 560-6163-12 Date Sampled: 08/21/2007 1040

Job Number: 560-6163-1

Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed: 08/2	3/2007 2023	
Prep Method: 5035A		Date Prepared: 08/23/2007 0955				
Gasoline Range Organics (GRO)-C6-C10	0.032	U	mg/Kg	0.032	0.097	1.0
Surrogate				Ac	ceptance Limits	S
a,a,a-Trifluorotoluene (fid)	101		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: 08/2	4/2007 1823	
Prep Method: 3550B			Date Pr	epared: 08/2	2/2007 1200	
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0
Surrogate		•		Ac	ceptance Limits	S
o-Terphenyl	104		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed: 08/2	2/2007 1411	
Chloride	55		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP5, 0-2 Lab Sample ID: 560-6163-13 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1100 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution	
Method: 8021B			Date Analyzed: 08/22/2007 1809				
Prep Method: 5030B		Date Prepared: 08/22/2007 1809					
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	71		%		51 - 127		
Trifluorotoluene (Surr)	83		%	50 - 129			

Client Sample ID: SP5, 0-2 Lab Sample ID: 560-6163-13 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1100 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M				nalyzed:	08/23/2007 2050	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.033	U	mg/Kg	0.033	3 0.10	1.0
Surrogate			Acceptance Limits			
a,a,a-Trifluorotoluene (fid)	105		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	08/24/2007 1832	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	150	J	mg/Kg	42	500	10
Surrogate					Acceptance Limits	
o-Terphenyl	117		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalvzed:	08/22/2007 1411	
Chloride	170		mg/Kg	7.2	25	5.0

Client Sample ID: SP5, 2-4 Lab Sample ID: 560-6163-14 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1100 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	, RL	Dilution
Method: 8015M			Date Ar	nalyzed: (08/23/2007 2212	
Prep Method: 5035A			Date Pr	epared: (08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.036	U	mg/Kg	0.036	0.11	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	102		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: (08/24/2007 1840	
Prep Method: 3550B			Date Pr	epared: (08/22/2007 1200	
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	104		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed: 0	08/22/2007 1411	
Chloride	150		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP6, 0-2 Lab Sample ID: 560-6163-15 Date Sampled: 08/21/2007 1230

Job Number: 560-6163-1

Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution		
Method: 8021B			Date An	alyzed: 08/22	2/2007 1838			
Prep Method: 5030B	•		Date Pr	epared: 08/22	2/2007 1838			
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0		
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0		
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0		
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0		
Surrogate			Acceptance Limits					
4-Bromofluorobenzene (Surr)	62		%		51 - 127			
Trifluorotoluene (Surr)	82		%	50 - 129				

Client Sample ID: SP6, 0-2 Lab Sample ID: 560-6163-15 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1230 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	. RL	Dilution
Method: 8015M			Date An	alyzed:	08/23/2007 2239	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.035	U	mg/Kg	0.03	5 0.11	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	105		%		60 - 134	
Method: 8015B			Date Ar	alyzed:	08/24/2007 1906	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	1300	J	mg/Kg	210	2500	50
Surrogate					Acceptance Limits	
o-Terphenyl	188	Х	%		29 - 140	
Method: Soluble-300.0			Date Analyzed: 08/22/2007 1411			-
Chloride	6.5		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP6, 2-4 Lab Sample ID: 560-6163-16 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1230 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed:	08/23/2007 2306	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.029	U	mg/Kg	0.029	0.089	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	100		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	08/24/2007 1914	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	104		%		29 - 140	
Method: Soluble-300.0			Date Analyzed:		08/22/2007 1411	
Chloride	8.0		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP6, 4-5.5 Lab Sample ID: 560-6163-17 Date Sampled: 08/21/2007 1240

Job Number: 560-6163-1

Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Soluble-300.0		Date An	alyzed:	08/22/2007 1411	
Chloride	6.7	mg/Kg	1.4	5.0	1.0

Client Sample ID: SP7, 0-2 Lab Sample ID: 560-6163-18 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1255 Date Received: 08/22/2007 1006

Analyte	Result/Qua	Result/Qualifier		MDL	MQL	Dilution	
Method: 8021B			Date An	alyzed: 08/22	/2007 1905		
Prep Method: 5030B			Date Pro	epared: 08/22	/2007 1905		
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	77	,	%		51 - 127		
Trifluorotoluene (Surr)	85	-	%		50 - 129		

Client Sample ID: SP7, 0-2 Lab Sample ID: 560-6163-18 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1255 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M	•		Date Ar	nalyzed: 08	3/23/2007 2333	
Prep Method: 5035A		-	Date Pr	epared: 08	3/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.032	υ	mg/Kg	0.032	0.098	1.0
Surrogate				,	Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	105		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: 08	3/24/2007 1923	
Prep Method: 3550B			Date Pr	epared: 08	3/22/2007 1200	
Diesel Range Organics [C10-C28]	26	J	mg/Kg	· 4.2	50	1.0
Surrogate				,	Acceptance Limits	
o-Terphenyl	101		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed: 08	3/22/2007 1411	
Chloride	7.3		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP7, 2-4 Lab Sample ID: 560-6163-19 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1255 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution			
Method: 8015M			Date Analyzed: 08/24/2007 0000						
Prep Method: 5035A			Date Pr	epared: 08/	23/2007 0955				
Gasoline Range Organics (GRO)-C6-C10	0.027	U	mg/Kg	0.027	0.081	1.0			
Surrogate				Α	cceptance Limits	;			
a,a,a-Trifluorotoluene (fid)	99		%		60 - 134				
Method: 8015B			Date Ar	nalyzed: 08/	24/2007 1932				
Prep Method: 3550B			Date Pr	epared: 08/	22/2007 1200				
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0			
Surrogate				Α	cceptance Limits	;			
o-Terphenyl	101	,	%		29 - 140				
Method: Soluble-300.0			Date Ar	nalyzed: 08/	22/2007 1411				
Chloride	5.3		mg/Kg	1.4	5.0	1.0			

Client Sample ID: SP8, 0-2 Lab Sample ID: 560-6163-20 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1308 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	alyzed: 08/2	2/2007 1933		
Prep Method: 5030B			Date Pr	epared: 08/2	2/2007 1933		
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	IJ	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	80		%		51 - 127		
Trifluorotoluene (Surr)	86		%		50 - 129		

Client Sample ID: SP8, 0-2 Lab Sample ID: 560-6163-20 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1308 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed: 08	/24/2007 0027	
Prep Method: 5035A			Date Pro	epared: 08	/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.030	U	mg/Kg	0.030	0.091	1.0
Surrogate				Į.	Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	103		%		60 - 134	
Method: 8015B			Date An	alyzed: 08	/24/2007 1940	
Prep Method: 3550B			Date Pro	epared: 08	/22/2007 1200	
Diesel Range Organics [C10-C28]	15 ·	J	mg/Kg	4.2	50	1.0
Surrogate				A	Acceptance Limits	
o-Terphenyl	107		%		29 - 140	
Method: Soluble-300.0			Date An	alvzed: 08	/22/2007 1411	
Chloride	5.6		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP8, 2-4 Lab Sample ID: 560-6163-21 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1308 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed: 08/2	4/2007 0055	
Prep Method: 5035A			Date Pro	epared: 08/2	3/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.030	U	mg/Kg	0.030	0.090	1.0
Surrogate				Ac	ceptance Limits	S
a,a,a-Trifluorotoluene (fid)	106		%		60 - 134	
Method: 8015B			Date An	alyzed: 08/2	4/2007 1949	
Prep Method: 3550B			Date Pro	epared: 08/2	2/2007 1200	
Diesel Range Organics [C10-C28]	7.3	J	mg/Kg	4.2	50	1.0
Surrogate				Ac	ceptance Limits	3
o-Terpheny l	103		%		29 - 140	
Method: Soluble-300.0			Date An	alyzed: 08/2	2/2007 1411	
Chloride	1.4	U	mg/Kg	1.4	5.0	1.0

Client Sample ID: SP9 0-2 Lab Sample ID: 560-6163-22 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1320 Date Received: 08/22/2007 1006

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution
Method: 8021B			Date An	alyzed: 08/22	2/2007 2001	
Prep Method: 5030B			Date Prepared: 08/22/2007 2001			
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate			Acceptance Limits			
4-Bromofluorobenzene (Surr)	75		%		51 - 127	
Trifluorotoluene (Surr)	85		% 50 - 129			

Client Sample ID: SP9 0-2 Lab Sample ID: 560-6163-22 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1320 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed: 08/2	4/2007 1314	
Prep Method: 5035A			Date Pr	epared: 08/2	4/2007 0934	
Gasoline Range Organics (GRO)-C6-C10	0.032	U	mg/Kg	0.032	0.097	1.0
Surrogate			Acceptance			
a,a,a-Trifluorotoluene (fid)	106		%		60 - 134	
Method: 8015B			Date An	alyzed: 08/2	4/2007 1957	
Prep Method: 3550B			Date Pr	epared: 08/2	2/2007 1200	
Diesel Range Organics [C10-C28]	4500		mg/Kg	210	2500	50
Surrogate			r	Acc	ceptance Limits	
o-Terphenyl	147	Χ	%	•	29 - 140	
Method: Soluble-300.0			Date An	alyzed: 08/2	2/2007 1411	
Chloride	6.7		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP9, 2-4 Lab Sample ID: 560-6163-23 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1320 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	. RL	Dilution
Method: 8015M			Date Ar	nalyzed:	08/24/2007 0149	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.033	U	mg/Kg	0.03	3 0.10	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	104		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	08/24/2007 2006	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	107		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed:	08/22/2007 1411	
Chloride	9.7		mg/Kg	1.4	5.0	1.0

Client Sample ID: SP9, 4-6 Lab Sample ID: 560-6163-24 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1325 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: Soluble-300.0		Date An	nalyzed: 08/2	2/2007 1411	
Chloride	8.9	mg/Kg	1.4	5.0	1.0

Job Number: 560-6163-1

Client Sample ID: SP9, 6-8 Lab Sample ID: 560-6163-25

Date Sampled: 08/21/2007 1325 Date Received: 08/22/2007 1006

Analyte	Result/Qualifier	Unit	MDL	. RL	Dilution
Method: Soluble-300.0		Date An	nalyzed:	08/22/2007 1411	
Chloride	570	mg/Kg	7.2	25	5.0

Trifluorotoluene (Surr)

Client Sample ID: SP10, 0-2 Lab Sample ID: 560-6163-26 Date Sampled: 08/21/2007 1337

90

Client Matrix: Soil

Date Received: 08/22/2007 1006

50 - 129

Job Number: 560-6163-1

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution
Method: 8021B			Date An	alvzed: 08/22	/2007 2030	
Prep Method: 5030B			Date Pr	•	/2007 2030	
Benzene	0.0017	U	mg/Kg	0.0017	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	77		%		51 - 127	

%

Client Sample ID: SP10, 0-2 Lab Sample ID: 560-6163-26 Date Sampled: 08/21/2007 1337 Date Received: 08/22/2007 1006

Job Number: 560-6163-1

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed: (08/24/2007 0311	
Prep Method: 5035A			Date Pr	epared: (08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.026	U	mg/Kg	0.026	0.079	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	103		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: (08/24/2007 2014	
Prep Method: 3550B			Date Pr	epared: (08/22/2007 1200	
Diesel Range Organics [C10-C28]	43	J	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	116		%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed: (08/22/2007 1411	•
Chloride	5.1		mg/Kg	1.4	5.0°	1.0

Client Sample ID: SP10, 2-4 Lab Sample ID: 560-6163-27 Job Number: 560-6163-1

Date Sampled: 08/21/2007 1337 Date Received: 08/22/2007 1006

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	nalyzed:	08/24/2007 0338	
Prep Method: 5035A			Date Pr	epared:	08/23/2007 0955	
Gasoline Range Organics (GRO)-C6-C10	0.026	U	mg/Kg	0.026	0.078	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	102		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	08/24/2007 2023	
Prep Method: 3550B			Date Pr	epared:	08/22/2007 1200	
Diesel Range Organics [C10-C28]	4.2	U	mg/Kg	4.2	50	1.0
Surrogate					Acceptance Limits	
o-Terphenyl	102	4.	%		29 - 140	
Method: Soluble-300.0			Date Ar	nalyzed:	08/22/2007 1411	
Chloride	6.7		mg/Kg	1.4	5.0	1.0

DATA REPORTING QUALIFIERS

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

Lab Section	Qualifier_	Description
GC VOA		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate exceeds the control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	j	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 560-14430		controvalence where which the first two secundary property is the first was because	O. M. See Annahaman and Constitution A Transportation and Constitution of the Constitu	······································	anne es gra s syminamen suit anne / f et et entre entre s
LCS 560-14430/1-A	Lab Control Spike	T	Solid	5030B	
MB 560-14430/2-A	Method Blank	T	Solid	5030B	
560-6163-1	SP1, 0-2	Т	Solid	5030B	
Analysis Batch:560-144	84				
LCS 560-14484/1	Lab Control Spike	Т	Solid	8021B	
MB 560-14484/2	Method Blank	T	Solid	8021B	
560-6163-11	SP4, 0-2	Т	Solid	8021B	
560-6163-13	SP5, 0-2	Т	Solid	8021B	
560-6163-15	SP6, 0-2	Τ	Solid	8021B	
560-6163-18	SP7, 0-2	Т	Solid	8021B	
560-6163-20	SP8, 0-2	Т	Solid	8021B	
560-6163-22	SP9 0-2	Ŧ	Solid	8021B	,
560-6163-26	SP10, 0-2	Т	Solid	8021B	
Analysis Batch:560-145	07				
LCS 560-14430/1-A	Lab Control Spike	· T	Solid	8021B	560-14430
MB 560-14430/2-A	Method Blank	T	Solid	8021B	560-14430
560-6163-1	SP1, 0-2	Т	Solid	8021B	560-14430
Analysis Batch:560-145	08				
LCS 560-14508/1	Lab Control Spike	Τ	Solid	8021B	
MB 560-14508/2	Method Blank	Т	Solid	8021B	
560-6163-5	SP2, 0-2	Т	Solid	8021B	
560-6163-A-9 MSDMS	Matrix Spike	Т	Solid	8021B	
560-6163-9	SP3, 0-2	Т	Solid	8021B	
560-6163-9MSD	Matrix Spike Duplicate	Т	Solid	8021B	

Quality Control Results

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA	•				,
Analysis Batch:400-5	4187	/ 18 Provide destructions to the province of the section and	edicidental construction and the construction of the construction	minimizer and a source of values international and a so-	The hands appeared to the second of the seco
LCS 400-54203/1-A	Lab Control Spike	Т	Solid	8015M	400-54203
MB 400-54203/2-A	Method Blank	Т	Solid	8015M	400-54203
560-6163-1	SP1, 0-2	Т	Solid	8015M	400-54203
560-6163-6	SP2, 2-4	T	Solid	8015M	400-54203
560-6163-10	SP3, 2-4	Т	Solid	8015M	400-54203
560-6163-11	SP4, 0-2	Т	Solid	8015M	400-54203
560-6163-12	SP4, 2-4	Т	Solid	8015M	400-54203
560-6163-13	SP5, 0-2	T	Solid	8015M	400-54203
560-6163-14	SP5, 2-4	Т	Solid	8015M	400-54203
560-6163-15	SP6, 0-2	T	Solid	8015M	400-54203
560-6163-16	SP6, 2-4	Т	Solid	8015M	400-54203
560-6163-18	SP7, 0-2	Т	Solid	8015M	400-54203
560-6163-19	SP7, 2-4	T	Solid	8015M	400-54203
560-6163-20	SP8, 0-2	Т	Solid	8015M	400-54203
560-6163-21	SP8, 2-4	Т	Solid	8015M	400-54203
560-6163-23	SP9, 2-4	T	Solid	8015M	400-54203
560-6163-26	, SP10, 0-2	T	Solid	8015M	400-54203
560-6163-27	SP10, 2-4	Т	Solid	8015M	400-54203
Analysis Batch:400-5	4188				
LCS 400-54204/1-A	Lab Control Spike	T	Solid	8015M	400-54204
MB 400-54204/2-A	Method Blank	Т	Solid	8015M	400-54204
560-6163-2	SP1, 2-4	Т	Solid	8015M	400-54204
560-6163-5	SP2, 0-2	T	Solid	8015M	400-54204
560-6163-9	SP3, 0-2	T	Solid	8015M	400-54204
560-6163-22	SP9 0-2	Т	Solid	8015M	400-54204

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA	•				· · · · · · · · · · · · · · · · · · ·
Prep Batch: 400-5420)3	V MANN THE SE SE SECTION AND AND AND AND AND AND AND AND AND AN	and the same to the same and th	er ere ya yanna ayr erekenkir. Ankiddikalarana engoy	Allegand volcations recommended in a second of the test
LCS 400-54203/1-A	Lab Control Spike	T	Solid	5035A	
MB 400-54203/2-A	Method Blank	T	Solid	5035A	
560-6163-1	SP1, 0-2	Т	Solid	5035A	
560-6163-6	SP2, 2-4	Т	Solid	5035A	
560-6163-10	SP3, 2-4	Т	Solid	5035A	
560-6163-11	SP4, 0-2	Т	Solid	5035A	
560-6163-12	SP4, 2-4	τ	Solid	5035A	
560-6163-13	SP5, 0-2	Т	Solid	5035A	
560-6163-14	SP5, 2-4	T	Solid	5035A	
560-6163-15	SP6, 0-2	Ŧ	Solid	5035A	
560-6163-16	SP6, 2-4	Т	Solid	5035A	
560-6163-18	SP7, 0-2	Т	Solid	5035A	
560-6163-19	SP7, 2-4	Т	Solid	5035A	
560-6163-20	SP8, 0-2	Т	Solid	5035A	
560-6163-21	SP8, 2-4	T	Solid	5035A	
560-6163-23	SP9, 2-4	T	Solid	5035A	
560-6163-26	SP10, 0-2	· T	Solid	5035A	
560-6163-27	SP10, 2-4	Т	Solid	5035A	
Prep Batch: 400-5420	04				
_CS 400-54204/1-A	Lab Control Spike	, Т	Solid	5035A	
MB 400-54204/2-A	Method Blank	T	Solid	5035A	
560-6163-2	SP1, 2-4	T	Solid	5035A	
560-6163-5	SP2, 0-2	T	Solid	5035A	
560-6163-9	SP3, 0-2	Т	Solid	5035A	
560-6163-22	SP9 0-2	T	Solid	5035A	

Report Basis

T = Total

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA		· · · · · · · · · · · · · · · · · · ·		_	
Prep Batch: 560-14476		***************************************		AND AND MORE STREET, AND AND ADDRESS OF THE STREET, TH	van de administrative van verkenstelse verstelse van de administrative van de administrative van de verstelse
LCS 560-14476/2-A	Lab Control Spike	Т	Solid	3550B	
LCSD 560-14476/3-A	Lab Control Spike Duplicate	Т	Solid	3550B	
MB 560-14476/1-A	Method Blank	Т	Solid	3550B	
560-6163-1	SP1, 0-2	T	Solid	3550B	
560-6163-2	SP1, 2-4	Τ	Solid	3550B	
560-6163-5	SP2, 0-2	T	Solid	3550B	
560-6163-6	SP2, 2-4	Т	Solid	3550B	
560-6163-9	SP3, 0-2	Ŧ	Solid	3550B	
560-6163-10	SP3, 2-4	Т	Solid	3550B	
560-6163-11	SP4, 0-2	Т	Solid	3550B	
560-6163-12	SP4, 2-4	Τ	Solid	3550B	
560-6163-13	SP5, 0-2	Т	Solid	3550B	
560-6163-14	SP5, 2-4	Т	Solid	3550B	
560-6163-15	SP6, 0-2	T	Solid	3550B	
560-6163-16	SP6, 2-4	Т	Solid	3550B	
560-6163-18	SP7, 0-2	T	Solid	3550B	
560-6163-19	SP7, 2-4	T	Solid	3550B	
560-6163-20	SP8, 0-2	Т	Solid	3550B	
560-6163-21	SP8, 2-4	Т	Solid	3550B	
560-6163-22	SP9 0-2	Т	Solid	3550B	
560-6163-23	SP9, 2-4	Т	Solid	3550B	
560-6163-26	SP10, 0-2	T	Solid	3550B	
560-6163-27	SP10, 2-4	Т	Solid	3550B	

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:560-14	567	TO THE SALE OF THE PROPERTY OF	entering and other or the first state and stat	VAA VANNA	The second second of the second secon
LCS 560-14476/2-A	Lab Control Spike	Т	Solid	8015B	560-14476
LCSD 560-14476/3-A	Lab Control Spike Duplicate	T	Solid	8015B	560-14476
MB 560-14476/1-A	Method Blank	T	Solid	8015B	560-14476
560-6163-1	SP1, 0-2	T	Solid	8015B	560-14476
560-6163-2	SP1, 2-4	T	Solid	8015B	560-14476
560-6163-5	SP2, 0-2	T	Solid	8015B	560-14476
560-6163-6	SP2, 2-4	T	Solid	8015B	560-14476
560-6163-9	SP3, 0-2	T	Solid	8015B	560-14476
560-6163-10	SP3, 2-4	Т	Solid	8015B	560-14476
560-6163-11	SP4, 0-2	Т	Solid	8015B	560-14476
560-6163-12	SP4, 2-4	Т	Solid	8015B	560-14476
560-6163-13	SP5, 0-2	T	Solid	8015B	560-14476
560-6163-14	SP5, 2-4	T	Solid	8015B	560-14476
560-6163-15	SP6, 0-2	T	Solid	8015B	560-14476
560-6163-16	SP6, 2-4	T	Solid	8015B	560-14476
560-6163-18	SP7, 0-2	Т	Solid	8015B	560-14476
560-6163-19	SP7, 2-4	Т	Solid	8015B	560-14476
560-6163-20	SP8, 0-2	Т	Solid	8015B	560-14476
560-6163-21	SP8, 2-4	Т	Solid-	8015B	560-14476
560-6163-22	SP9 0-2	T	Solid	8015B	560-14476
560-6163-23	SP9, 2-4	Т	Solid	8015B	560-14476
560-6163-26	SP10, 0-2	T	Solid	8015B	560-14476
560-6163-27	SP10, 2-4	Т	Solid	8015B	560-14476

Report Basis T = Total

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 560-14620		200 WOODS 200 WO MAN SON	· · · · · · · · · · · · · · · · · · ·	AN LAN ANN WAS PROBLEMENT WORKSHOOM A	M1 / 4 / / M * 1 W * 1 M
LCS 560-14620/2-A	Lab Control Spike	S	Solid	NONE	
MB 560-14620/1-A	Method Blank	S	Solid	NONE	
560-6163-1	SP1, 0-2	S	Solid	NONE	
560-6163-1MS	Matrix Spike	S	Solid	NONE	
560-6163-1MSD	Matrix Spike Duplicate	S	Solid	NONE	
560-6163-2	SP1, 2-4	S	Solid	NONE	
560-6163-3	SP1, 4-6	S	Solid	NONE	
560-6163-4	SP1, 6-8	S	Solid	NONE	
560-6163-5	SP2, 0-2	S	Solid	NONE	
560-6163-6	SP2, 2-4	S	Solid	NONE	
560-6163-7	SP2, 4-6	S	Solid	NONE	
560-6163-8	SP2, 6-7	S	Solid	NONE	
560-6163-9	SP3, 0-2	S	Solid	NONE	
560-6163-10	SP3, 2-4	S	Solid	NONE	
560-6163-11	SP4, 0-2	S	Solid	NONE	
560-6163-12	SP4, 2-4	S	Solid	NONE	
560-6163-13	SP5, 0-2	S	Solid	NONE	
560-6163-14	SP5, 2-4	S	Solid	NONE	
560-6163-15	SP6, 0-2	S	Solid	NONE	
560-6163-16	SP6, 2-4	S	Solid	NONE	
560-6163-17	SP6, 4-5.5	S	Solid	NONE	
560-6163-18	SP7, 0-2	S	Solid	NONE	
560-6163-19	SP7, 2-4	S	Solid	NONE	
560-6163-20	SP8, 0-2	S	Solid	NONE	
560-6163-21	SP8, 2-4	S	Solid	NONE	
560-6163-22	SP9 0-2	S.	Solid	NONE	
560-6163-23	SP9, 2-4	S	Solid	NONE	
560-6163-24	SP9, 4-6	Š	Solid	NONE	
560-6163-25	SP9, 6-8	S	Solid	NONE	
560-6163-26	SP10, 0-2	S	Solid	NONE	
560-6163-27	SP10, 2-4	S	Solid	NONE	

Client: Larson & Associates, Inc. Job Number: 560-6163-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry	•	,			
Analysis Batch:560-1	14623	57 #00#00 W 100#00#00 10# 100#00#0# 20 100#	· · · · · · · · · · · · · · · · · · ·	w an assess viscosistantes in the state of t	**************************************
LCS 560-14620/2-A	Lab Control Spike	S	Solid	300.0	
MB 560-14620/1-A	Method Blank	S	Solid	300.0	
560-6163-1	SP1, 0-2	S	Solid	300.0 -	
560-6163-1MS	Matrix Spike	S	Solid	300.0	
560-6163-1MSD	Matrix Spike Duplicate	S	Solid	300.0	
560-6163-2	SP1, 2-4	S	Solid	300.0	
560-6163-3	SP1, 4-6	S	Solid	300.0	
560-6163-4	SP1, 6-8	S	Solid	300.0	
560-6163-5	SP2, 0-2	S	Solid	300.0	
560-6163-6	SP2, 2-4	S	Solid	300.0	
560-6163 - 7	SP2, 4-6	S	Solid ,	300.0	
560-6163-8	SP2, 6-7	S	Solid	300.0	
560-6163 - 9	SP3, 0-2	S	Solid	300.0	
560-6163-10	SP3, 2-4	S	Solid	300.0	
560-6163-11	SP4, 0-2	S	Solid	300.0	
560-6163-12	SP4, 2-4	S	Solid	300.0	
560-6163-13	SP5, 0-2	S	Solid	300.0	
560-6163-14	SP5, 2-4	S	Solid	300.0	
560-6163-15	SP6, 0-2	S	Solid	300.0	
560-6163-16	SP6, 2-4	S	Solid	300.0	
560-6163-17	SP6, 4-5.5	S	Solid	300.0	
560-6163-18	SP7, 0-2	S	Solid	300.0	
560-6163-19	SP7, 2=4	S	Solid	300.0	
560-6163 - 20	SP8, 0-2	S	Solid	300.0	
560-6163-21	SP8, 2-4	S	Solid	300.0	
560-6163-22	SP9 0-2	S	Solid	300.0	
560-6163-23	SP9, 2-4	S	Solid	300.0	
560-6163-24	SP9, 4-6	S	Solid	300.0	
560-6163-25	SP9, 6-8	S	Solid	300.0	
560-6163-26	SP10, 0-2	S	Solid	300.0	
560-6163-27	SP10, 2-4	S	Solid	300.0	

Report Basis S = Soluble

Job Number: 560-6163-1 Client: Larson & Associates, Inc.

Method Blank - Batch: 400-54203 Method: 8015M Preparation: 5035A

Lab Sample ID: MB 400-54203/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/23/2007 1046

Date Prepared: 08/23/2007 0955

Analysis Batch: 400-54187 Prep Batch: 400-54203

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: R082303.D

Initial Weight/Volume: 5.0 g Final Weight/Volume: 5.0 g

Injection Volume:

Column ID: **PRIMARY**

MDL RL Analyte Result Qual Gasoline Range Organics (GRO)-C6-C10 0.058 0.033 0.10 J Surrogate % Rec Acceptance Limits a,a,a-Trifluorotoluene (fid) 102 60 - 134

Lab Control Spike - Batch: 400-54203

Method: 8015M Preparation: 5035A

Lab Sample ID: LCS 400-54203/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/23/2007 0955

Date Prepared: 08/23/2007 0955

Analysis Batch: 400-54187 Prep Batch: 400-54203

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: R082302.D

Initial Weight/Volume: 5.0 g Final Weight/Volume: 5.0 g

Injection Volume:

Column ID:

PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Gasoline Range Organics (GRO)-C6-C10	1.00	1.04	104	75 - 124	***************************************
Surrogate	% Rec		Acceptance Limits		
a,a,a-Trifluorotoluene (fid)	103		60 - 134		

Client: Larson & Associates, Inc. Job Number: 560-6163-1

Method Blank - Batch: 400-54204 Method: 8015M Preparation: 5035A

Lab Sample ID: MB 400-54204/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/24/2007 1030

Date Prepared: 08/24/2007 0934

Analysis Batch: 400-54188 Prep Batch: 400-54204

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: R082403.D

Initial Weight/Volume: 5.0 g Final Weight/Volume: 5.0 g

Injection Volume:

Column ID: **PRIMARY**

MDL Analyte Result Qual RL Gasoline Range Organics (GRO)-C6-C10 0.050 0.033 0.10 Surrogate % Rec Acceptance Limits

a,a,a-Trifluorotoluene (fid) 101 60 - 134

Lab Control Spike - Batch: 400-54204 Method: 8015M Preparation: 5035A

Lab Sample ID: LCS 400-54204/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/24/2007 0934

Date Prepared: 08/24/2007 0934

Analysis Batch: 400-54188 Prep Batch: 400-54204

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: R082402.D

Initial Weight/Volume: 5.0 g Final Weight/Volume: 5.0 g

Injection Volume:

Column ID: **PRIMARY**

Analyte Spike Amount Result % Rec. Limit Qual Gasoline Range Organics (GRO)-C6-C10 1.00 1.03 103 75 - 124 Surrogate % Rec Acceptance Limits

a,a,a-Trifluorotoluene (fid) 108 60 - 134

Job Number: 560-6163-1 Client: Larson & Associates, Inc.

Method Blank - Batch: 560-14430 Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-14430/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/22/2007 0904 Date Prepared: 08/22/2007 0730 Analysis Batch: 560-14507 Prep Batch: 560-14430

Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 08220703.D Initial Weight/Volume: 5.00 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID:

PRIMARY

Analyte	Result	Qual	MDL	RL.
Benzene	0.0049	U	0.0049	0.050
Toluene	0.0050	U	0.0050	0.10
Ethylbenzene	0.0048	U	0.0048	0.050
Xylenes, Total	0.012	U	0.012	0.30
Surrogate	% Rec		Acceptance Limits	
4-Bromofluorobenzene (Surr)	89	TO ANNUAL TO A SECURE OF STREET	47 - 120	
Trifluorotoluene (Surr)	110		35 - 132	

Lab Control Spike - Batch: 560-14430

Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-14430/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/22/2007 0837

Date Prepared: 08/22/2007 0730

Analysis Batch: 560-14507 Prep Batch: 560-14430

Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 08220702.D Initial Weight/Volume: 5.00 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: **PRIMARY**

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	1.00	0.958	96	54 - 141	The second development of the second develop
Toluene	1.00	0.964	96	74 - 131	
Ethylbenzene	1.00	0.984	9 8 ·	75 - 132	
Xylenes, Total	2.00	2.08	104	79 - 145	
Surrogate	% Rec		Acc	ceptance Limits	
4-Bromofluorobenzene (Surr)	91		47 - 120		
Trifluorotoluene (Surr)	11:	5		35 - 132	

Client: Larson & Associates, Inc. Job Number: 560-6163-1

Method Blank - Batch: 560-14484 Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-14484/2

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/22/2007 1618

Date Prepared: 08/22/2007 1618

Analysis Batch: 560-14484

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 08220703.D Initial Weight/Volume: 5.0 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	MDL	MQL
Benzene	0.0019	· · · · · · · · · · · · · · · · · · ·	0.0019	0.0050
Toluene	0.0021	U	0.0021	0.0050
Ethylbenzene	0.0022	U	0.0022	0.0050
Xylenes, Total	0.0067	U	0.0067	0.015
Surrogate	% Rec	A Administration of the Control of t	Acceptance Limits	
4-Bromofluorobenzene (Surr)	76		51 - 127	
Trifluorotoluene (Surr)	84		50 - 129	

Lab Control Spike - Batch: 560-14484 Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-14484/1

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/22/2007 1550 Date Prepared: 08/22/2007 1550 Analysis Batch: 560-14484

Prep Batch: N/A Units: mg/Kg Instrument ID: HP GC [Method 8021]

Lab File ID: 08220702.D Initial Weight/Volume: 5.0 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.0200	0.0192	96	76 - 128	A WAY CA Y YAL GRANDHOMAN ARROGOMAN
Toluene	0.0200	0.0207	104	71 - 124	
Ethylbenzene	0.0200	0.0211	105	73 - 122	
Xylenes, Total	0.0400	0.0453	113	73 - 133	
Surrogate	% R	% Rec		ceptance Limits	
4-Bromofluorobenzene (Surr)	98			51 - 127	**************************************
Trifluorotoluene (Surr)	98	,		50 - 129	

Client: Larson & Associates, Inc. Job Number: 560-6163-1

Method Blank - Batch: 560-14508 Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-14508/2

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 08/23/2007 0845 Date Prepared: 08/23/2007 0845 Analysis Batch: 560-14508

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 08230703.D Initial Weight/Volume: 5.0 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	MDL	MQL	
Benzene	0.0019	Ú	0.0019	0.0050	north
Toluene	0.0021	U	0.0021	0.0050	
Ethylbenzene	0.0022	U	0.0022	0.0050	
Xylenes, Total	0.0067	U	0.0067	0.015	
Surrogate	% Rec	Acceptance Limits			
4-Bromofluorobenzene (Surr)	78		51 - 127	22 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Trifluorotoluene (Surr)	90		50 - 129		

Lab Control Spike - Batch: 560-14508 Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-14508/1

Client Matrix: Solid
Dilution: 1.0

Date Analyzed: 08/23/2007 0816 Date Prepared: 08/23/2007 0816 Analysis Batch: 560-14508

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method-8021]

Lab File ID: 08230702.D Initial Weight/Volume: 5.0 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.0200	0.0212	106	76 - 128	THE PROPERTY OF THE PROPERTY O
Toluene	0.0200	0.0222	111	71 - 124	
Ethylbenzene	0.0200	0.0221	110	73 - 122	
Xylenes, Total	0.0400	0.0473	118	73 - 133	
Surrogate	% R	ec	Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	94		51 - 127		Annual control of the
Trifluorotoluene (Surr)	97			50 - 129	

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 560-14508

Method: 8021B Preparation: 5030B

MS Lab Sample ID:

560-6163-A-9 MSD

Client Matrix:

Solid

Analysis Batch: 560-14508

Instrument ID: HP GC [Method 8021]

08230708.D

Dilution:

Lab File ID:

PRIMARY

1.0

Initial Weight/Volume: 5.78 g

Final Weight/Volume: 5 mL

Date Analyzed: Date Prepared: 08/23/2007 1108 08/23/2007 1108

Injection Volume: Column ID:

MSD Lab Sample ID: 560-6163-9

Solid

Analysis Batch: 560-14508

Instrument ID: HP GC [Method 8021]

Client Matrix: Dilution:

1.0

Prep Batch: N/A

Prep Batch: N/A

Lab File ID: 08230709.D Initial Weight/Volume: 5.73 g

Date Analyzed: Date Prepared: 08/23/2007 1136 08/23/2007 1136 Final Weight/Volume: 5 mL Injection Volume:

Column ID:

PRIMARY

	<u>%</u>	Rec.						
Analyte	MS	MSD	Lim	iit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	39	41	28	- 150	63	30	van e betrakkantin filozofie er e e e e e e e e e e e e e e e e e	F
Toluene	33	31	23	- 150	69	30		F
Ethylbenzene	19	20	20	- 150	64	30	F	JF
Xylenes, Total	21	22	20	- 150	65	30		JF
Surrogate		MS % Re	:C	MSD 9	% Rec	Acce	ptance Limi	ts
4-Bromofluorobenzene (Surr)		39	Χ	20	Х	5	1 - 127	
Trifluorotoluene (Surr)		60		29	X	5	0 - 129	

Client: Larson & Associates, Inc. Job Number: 560-6163-1

Method Blank - Batch: 560-14476 Method: 8015B
Preparation: 3550B

,

Lab Sample ID: MB 560-14476/1-A Analysis Batch: 560-14567 . Instrument ID: Hewlett Packard GC [Methor Client Matrix: Solid Prep Batch: 560-14476 Lab File ID: 08240710.D

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30 g
Date Analyzed: 08/24/2007 1657 Final Weight/Volume: 5 mL

Date Prepared: 08/22/2007 1200 Injection Volume:
Column ID: PRIMARY

Analyte Result Qual MDL RL

Diesel Range Organics [C10-C28] 4.2 U 4.2 50

Surrogate % Rec Acceptance Limits

o-Terphenyl 100 29 - 140

Lab Control Spike/ Method: 8015B
Lab Control Spike Duplicate Recovery Report - Batch: 560-14476 Preparation: 3550B

LCS Lab Sample ID: LCS 560-14476/2-A Analysis Batch: 560-14567 Instrument ID: Hewlett Packard GC [Meth-

Client Matrix: Solid Prep Batch: 560-14476 Lab File ID: 08240711.D Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30 g

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30 g
Date Analyzed: 08/24/2007 1706 Final Weight/Volume: 5 mL

Date Prepared: 08/22/2007 1200 Injection Volume: Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 560-14476/3-A Analysis Batch: 560-14567 Instrument ID: Hewlett Packard GC [Met Client Matrix: Solid Prep Batch: 560-14476 Lab File ID: 08240712.D

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 30 g
Date Analyzed: 08/24/2007 1714 Final Weight/Volume: 5 mL

Date Prepared: 08/22/2007 1200 Injection Volume:

Column ID: PRIMARY

% Rec. LCS **RPD** Analyte **LCSD** Limit RPD Limit LCS Qual LCSD Qual Diesel Range Organics [C10-C28] 102 103 38 - 131 1.05 30.00 Surrogate LCS % Rec LCSD % Rec Acceptance Limits o-Terphenyl 104 106 29 - 140

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

Method Blank - Batch: 560-14623

Method: 300.0 Preparation: N/A

Lab Sample ID: MB 560-14620/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/22/2007 1411

Date Prepared: N/A

Date Leached: 08/22/2007 1200

Analysis Batch: 560-14623

Leachate Batch: 560-14620

Prep Batch: N/A

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: mL

Final Weight/Volume: mL

 Analyte
 Result
 Qual
 MDL
 RL

 Chloride-S
 0.14
 U
 0.14
 0.50

Lab Control Spike - Batch: 560-14623

Method: 300.0 Preparation: N/A

Lab Sample ID: LCS 560-14620/2-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 08/22/2007 1411

Date Prepared: N/A

Date Leached: 08/22/2007 1200

Analysis Batch: 560-14623

Leachate Batch: 560-14620

Prep Batch: N/A

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: mL

Final Weight/Volume: mL

Analyte Spike Amount % Rec. Limit Qual Result Chloride-S 10.0 9.43 70 - 130 94 Chloride-S 10.0 9.93 99 70 - 130

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

Method: 300.0 Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 560-14623 Preparation: N/A

Analysis Batch: 560-14623 MS Lab Sample ID: 560-6163-1

N/A

Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A Dilution: 10 Initial Weight/Volume: mL

Date Analyzed: 08/22/2007 1411 Final Weight/Volume: mL N/A

Date Prepared: Date Leached: 08/22/2007 1200 Leachate Batch: 560-14620

MSD Lab Sample ID: 560-6163-1 Analysis Batch: 560-14623 Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A

Dilution: 10 Initial Weight/Volume: mL 08/22/2007 1411 Final Weight/Volume: mL Date Analyzed:

Date Prepared: Date Leached: 08/22/2007 1200 Leachate Batch: 560-14620

% Rec. Analyte MS MSD Limit **RPD RPD Limit** MS Qual MSD Qual Chloride-S 87 87 70 - 130 30

6163 Pg/012

Page 65 of 67

Page 66 of 67

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Larson & Associates, Inc.

Job Number: 560-6163-1

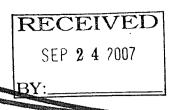
Login Number: 6163

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	sealed
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 C IR #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

CLIENT N					SITE MA	ANAGER:	· · · · · · · · · · · · · · · · · · ·		F	PARA	MET	ERS/	METH	HOD N	UMBER	2	CHA	VIN-	-OF-	-CU	STO	Y RE	CORD
JH					M	RK LAR	SON			Ţ					T		I _						
PROJECT	NO.:				PROJEC	T NAME:		FR.									Щ	arson	1 & F	Inc	5-m; 400	407.0	45/
7-	0111				FR	15CO 576	= A TB	CONTAINERS		u	•			•			<i>,</i> ,	Environme	ntal Cons	II IC.	Fax: 432 432	2-687-0 2-687-0	456 901
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	1000		X		502	6-7				X													
	1025		X		503				X	×	×												
	1025		X		593	2-4			×														
	1040		X		594	0-2			×	X	×											-	
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	1100		X		505	0-2		I	X	×	X												
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SAMPLE C	ONDITION WH	ien reci	EIVED:					LA CO	ATAC	ct pe	rson	l:				SAN	IPLE TY	PE:					

CLIENT NAME: SITE MANAGER:		PARA	METERS/MET	HOD NUMBER	CHAIN—OF—CUSTODY RECORD
PROJECT NO.: PROJECT NAME: 7-0111 FRISCO STE A	CONTAINERS		→ a		A arson & ssociates, Inc. Fax: 432-687-0456 Environmental Consultants 432-687-0901
PAGE 2 OF 2 LAB. PO #		17 :	X		507 N. Marienfeld, Ste. 202 • Midland, TX 79701
SAMPLE IDENTIFICATION	NUMBER OF	7	BIEX		LAB. I.D. REMARKS NUMBER (I.E , FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
3-21-07 1255 S SP72-4		XX			
1308 5 518,0-2		XX	 X - -		
1308 5 589, 2-4 1320 5 589 0-2		 			
1320 5 589 2-4	,	XX	 		
1325 5 50, 4-6	1	X			
1325 5 589 6-8		X			
V 1337 5 5/10 0-2 V 1237 5 5/10, 2-4		XX	 X 	 	
V 1337 S SPio, 2-4		XX			
					
		+	 		
		 			
SAMPLED BY: (Signature) DATE: 8-21-07 RE TIME: 1645	ELINQUISHED BY:	(Signature)	R	DATE: 8.2 FO	RECEIVED BY: (Signature) DATE: TIME:
RELINQUISHED BY: (Signature) DATE: المراجعة RE					SAMPLE SHIPPED BY: (Circle)
bonestar TIME: 1006	Hali	Har	rew		FEDEX BUS AIRBILL #:
COMMENTS:	Ø			TO THE PRODUCT OF	HAND DELIVERED UPS OTHER: WHITE - RECEIVING LAB
RECEIVING LABORATORY:	RECEIVE	ED BY: (Sign	nature)		YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
ADDRESS:					PINK - PROJECT MANAGER
CITY: STATE: ZIP: CONTACT: PHONE:	DATE: _		TIME:		GOLD - QA/QC COORDINATOR
SAMPLE CONDITION WHEN RECEIVED:	LA C	ONTACT PE	RSON:		SAMPLE TYPE:





ANALYTICAL REPORT

Job Number: 560-6527-1

Job Description: Friscoe State "A"

For:

Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, TX 79701

Attention: Ms. Michelle Green

Juli Jana

Julie Darrow Project Manager I jdarrow@stl-inc.com 09/19/2007

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Corpus Christi Certifications and Approvals: NELAC TX T104704210=96-TX, NELAC KS E-10362, Oklahoma 9968, USDA Soil Permit S-42935 Revised.



EXECUTIVE SUMMARY - Detections

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
560-6527-1	SS-1 1"				
Soluble Chloride-S		7.3	5.0	mg/Kg	300.0
560-6527-2	SS-2 1"				
Soluble Chloride-S		86	5.0	mg/Kg	300.0
560-6527-3	SS-3 1"				
Soluble Chloride-S	C	120	5.0	mg/Kg	300.0
560-6527-4	SS-4 1"			,	
Soluble Chloride-S		150	5.0	mg/Kg	300.0
560-6527-5	SS-5 1"				
Soluble Chloride-S		260	25	mg/Kg	300.0
560-6527-6	SS-6 1"				
Soluble Chloride-S		6.6	5.0	mg/Kg	300.0
560-6527-7	-SS-7 1"				
Soluble Chloride-S		6.4	5.0	mg/Kg	300.0
560-6527-8	SS-8 1"				
Soluble Chloride-S		6.7	5.0	mg/Kg	300.0

EXECUTIVE SUMMARY - Detections

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Lab Sample ID Analyte	Client Sample ID	Result / Qua	lifier	Reporting Limit	Units	Method	
560-6527-9	SS-9 1"						
Benzene Toluene Xylenes, Total		0.0020	J J	0.0044 0.0044 0.013	mg/Kg mg/Kg mg/Kg	8021B 8021B 8021B	
Soluble Chloride-S		12		5.0	mg/Kg	300.0	
560-6527-10 Soluble	SS-10 1"						
Chloride-S		14		5.0	mg/Kg	300.0	

METHOD SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ELCD	TAL CC	SW846 8021B	
Purge and Trap for Solids	TAL CC		SW846 5030B
Anions by Ion Chromatography	TAL CC	MCAWW 300.0)
Deionized Water Leaching Procedure (Routine)	TAL CC		ASTM DI Leach

Lab References:

TAL CC = TestAmerica Corpus Christi

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD/ANALYST SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Method	Analyst	Analyst ID
SW846 8021B SW846 8021B	Gonzales, Roman J Haas, Richard	RJG RH
MCAWW 300.0	Zwierzykowski, Hanna M	HMZ

SAMPLE SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
560-6527-1	SS-1 1"	Soil	09/13/2007 1230	09/14/2007 1029
560-6527-2	SS-2 1"	Soil	09/13/2007 1235	09/14/2007 1029
560-6527-3	SS-3 1"	Soil	09/13/2007 1241	09/14/2007 1029
560-6527-4	SS-4 1"	Soil	09/13/2007 1250	09/14/2007 1029
560-6527-5	SS-5 1"	Soil	09/13/2007 1254	09/14/2007 1029
560-6527-6	SS-6 1"	Soil	09/13/2007 1259	09/14/2007 1029
560-6527-7	SS-7 1"	Soil	09/13/2007 1306	09/14/2007 1029
560-6527-8	SS-8 1"	Soil	09/13/2007 1311	09/14/2007 1029
560-6527-9	SS-9 1"	Soil	09/13/2007 1219	09/14/2007 1029
560-6527-10	SS-10 1"	Soil	09/13/2007 1325	09/14/2007 1029

SAMPLE RESULTS

Client Sample ID: SS-1 1" Lab Sample ID: 560-6527-1 Job Number: 560-6527-1

Date Sampled: 09/13/2007 1230 Date Received: 09/14/2007 1029

Analyte	Result/Qua	alifier	Unit⁻_	MDL	RL	Dilution
Method: 8021B			Date An	alyzed: 09/14	1/2007 1246	
Prep Method: 5030B			Date Pro	epared: 09/14	1/2007 1246	
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0
Toluene	0.0018	U	mg/Kg₋	0.0018	0.0043	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	73		%-		51 - 127	
Trifluorotoluene (Surr)	79		%		50 - 129	
Method: Soluble-300.0			Date An	nalyzed: *09/14	1/2007 1530	
Chloride	7.3		mg/Kg	1.4	5.0	1.0

Client Sample ID: SS-2 1" Lab Sample ID: 560-6527-2 Date Sampled: 09/13/2007 1235 Date Received: 09/14/2007 1029

Job Number: 560-6527-1

Analyte	Result/Qua	alifier	Unit	MDL	RL	Dilution
Method: 8021B			, Date An	nalyzed: 09/14	1/2007 1314	
Prep Method: 5030B			Date Pr	epared: 09/14	1/2007 1314	
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	62		%		51 - 127	
Trifluorotoluene (Surr)	75		%		50 - 129	
Method: Soluble-300.0	Date Analyzed: 09/14/2007 18					
Chloride	86		mg/Kg	1.4	5.0	1.0

Job Number: 560-6527-1

Client Sample ID: SS-3 1" Lab Sample ID: 560-6527-3

Date Sampled: 09/13/2007 1241 Date Received: 09/14/2007 1029

Analyte	Result/Qua	alifier	Unit	MDL	RL	Dilution
Method: 8021B			Date An	nalyzed: 09/14	/2007 1342	
Prep Method: 5030B			Date Pr	epared: 09/14	/2007 1342	
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0-
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	74		%		51 - 127	
Trifluorotoluene (Surr)	80		%		50 - 129	
Method: Soluble-300.0		Date Analyzed: 09/14/2007 1530				
Chloride	120		mg/Kg	1.4	5.0	1.0-

Client Sample ID: SS-4 1" Lab Sample ID: 560-6527-4 Job Number: 560-6527-1

Date Sampled: 09/13/2007 1250 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Analyzed: 09/14/2007 1410			
Prep Method; 5030B			Date Pr	epared: 09/14	1/2007 1410	
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0
Toluene	0.0018	U [.]	mg/Kg	0.0018	0.0043	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate	ate Acceptance Limits					
4-Bromofluorobenzene (Surr)	7.2		%		51 - 127	
Trifluorotoluene (Surr)	81		%		50 - 129	
Method: Soluble-300.0	Date Analyzed: 09/14/2007 1			1/2007 1530		
Chloride	1 5 0		mg/Kg	1.4	5.0	1.0

Job Number: 560-6527-1

Client Sample ID: SS-5 1" Lab Sample ID: 560-6527-5 Date Sampled: 09/13/2007 1254 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution	
Method: 8021B			Date Analyzed: 09/14/2007 14			38	
Prep Method: 5030B			Date Pro		1/2007 1438		
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0	
Ethylbenzene	0.0019	U	mg/Kg.	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	υ	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	75		%		51 - 127		
Trifluorotoluene (Surr)	83		%		50 - 129		
Method: Soluble-300.0	Date Analyzed: 09/14/2007			1/2007 1530			
-Chloride	260		mg/Kg	7.2	25-	5.0	

Job Number: 560-6527-1

Client Sample ID: SS-6 1" Lab Sample ID: 560-6527-6 Date Sampled: 09/13/2007 1259 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B	1B Date Analyzed: 09/14/20			1/2007 1506		
Prep Method: 5030B	,		Date Pro	epared: 09/14	1/2007 1506	
Benzene	0.0016	U	mg/Kg-	0.0016	0.0043	1.0
Toluene	0.0018	U	mg/Kg	0:0018	0.0043	1.0
Ethylbenzene	.0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	υ˙	mg/Kg	0.0058	0.013	1.0
Surrogate	Acceptance L			eptance Limits		
4-Bromofluorobenzene (Surr)	79		%		51 - 127	
Trifluorotoluene (Surr)	88		%		50-129	
Method: Soluble-300.0			Date An	alyzed: 09/14	1/2007 1530	
Chloride	6.6		mg/Kg [.]	1.4	5.0	1.0

Client Sample ID: SS-7 1" Lab Sample ID: 560-6527-7 Job Number: 560-6527-1

Date Sampled: 09/13/2007 1306 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL /	RL	Dilution	
Method: 8021B			Date Analyzed: 09/14/2007 1630				
Prep Method: 5030B	•		Date Pr	epared: 09/14	1/2007 1630		
Benzene	0.0017	U	mg/Kg	0.0017	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1 ⁻ .0 ⁻	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate	te Acceptance Limits						
4-Bromofluorobenzene (Surr)	76		%		51 - 127		
Trifluorotoluene (Surr)	85		%		50 - 129		
Method: Soluble-300.0		Date An	nalyzed: 09/14	1/2007 1530			
Chloride	6.4		mg/Kg	1.4	5.0	1.0	

Job Number: 560-6527-1

Client Sample ID: SS-8 1" Lab Sample ID: 560-6527-8 Date Sampled: 09/13/2007 1311 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date Ar	nalyzed: 09/17	7/2007 0758	
Prep Method: 5030B			Date Pr	epared: 09/17	7/2007 0758	
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	89		%	51 - 127		
Trifluerotoluene (Surr)	82		%		50 - 129	
Method: Soluble-300.0			Date Ar	nalyzed: 09/14	1/2007 1530	
Chloride	6.7		mg/Kg	1.4	5.0	1.0

Client Sample ID: SS-9 1" Lab Sample ID: 560-6527-9 Job Number: 560-6527-1

Date Sampled: 09/13/2007 1219 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B		Date Ar	alyzed: 09/17/2007 1555			
Prep Method: 5030B			Date Pr	epared: 09/17	7/2007 1555	
Benzene	0.0017	J	mg/Kg	0.0017	0.0044	1.0
Toluene	0.0020	j [.]	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0067	J	mg/Kg	0.0058	0.013	1.0
Surrogate-	Acceptance			eptance Limits		
4-Bromofluorobenzene (Surr)	73		%	51 - 127		
Trifluorotoluene (Surr)	117		%		50 - 129	
Method: Soluble-300.0	Date Analyzed:			nalyzed: 09/14	1/2007 1530	
Chloride	12		mg/Kg	1.4	5.0	1.0

Job Number: 560-6527-1

Client Sample ID: SS-10 1" Lab Sample ID: 560-6527-10 Date Sampled: 09/13/2007 1325 Date Received: 09/14/2007 1029

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8021B			Date An	7/2007 1623		
Prep Method: 5030B			Date Pro	epared: 09/17	7/2007 1623	
Benzene	0.001 6	U	mg/Kg	0.0016	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate			Acceptance Limits			
4-Bromofluorobenzene (Surr)	78		%		51 - 127	
Trifluorotoluene (Surr)	116		%		50 - 129	
Method: Soluble-300.0	Date Ana			alyzed: 09/14	1/2007 1530	
Chloride	14		mg/Kg	1.4	5.0	1.0

DATA REPORTING QUALIFIERS

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Lab Section	Qualifier	Description
GC VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected:

QUALITY CONTROL RESULTS

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:560-1	15202		. / ***********************************		transforment handsterferte. N. S. v. viet dans sensoles C.C. elle VIII. et
LCS 560-15202/1	Lab Control Spike	T	Solid	8021B	
MB 560-15202/15	Method Blank	Т	Solid	8021B	
MB 560-15202/2	Method Blank	Т	Solid	8021B	
560-6527-1	SS-1 1"	Т	Solid	8021B	
560-6527-2	SS-2 1"	Т	Solid	8021B	•
560-6527-3	SS-3 1"	Т	Solid	8021B	
560-6527-4	SS-4 1"	Т	Solid	8021B	
560-6527-5	SS-5 1"	Т	Solid	8021B	
560-6527-6	SS-6 1"	Т	Solid	8021B	
560-6527-7	SS-7 1"	T	Solid	8021B	
560-6527-8	SS-8 1"	· T	Solid	8021B	
Analysis Batch:560-	15271 ⁻				
LCS 560-15271/1	Lab Control Spike	T	Solid	8021B	
MB 560-15271/2	Method Blank	Т	Solid	8021B	
560-6527-9	SS-9 1"	Т	_Solid	8021B	
560-6527-10	SS-10 1"	Т	₋Solid	8021B	

Report Basis T = Total

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
· · · · · · · · · · · · · · · · · · ·	Client Sample ID	Dasis	Chent Wathx	wiethod	Prep Batch
General Chemistry					
Prep Batch: 560-1522	25				
LCS 560-15225/2-A	Lab Control Spike	S	Solid	DI Leach	
MB 560-15225/1-A	Method Blank	S	Solid	DI Leach	
560-6527 -1	SS-1 1"	S	Solid	DI Leach	
660-6527-1MS	Matrix Spike	S	Solid	DI Leach	
660-6527 -1M SD	Matrix Spike Duplicate	S	Solid	DI Leach	
60-6527 - 2	SS-2 1"	S,	Solid	DI Leach	
60-6527-3	SS-3 1"	S	Solid	DI Leach	
60-6527-4	SS-4 1"	S	Solid	DI Leach	
60-6527-5	SS-5 1"	S	Solid	DI Leach	
60-6527-6	-SS-6 1"	S	-Solid	DI Leach	
660-6527-7	SS-7 1"	S	Solid	DI Leach	
660-6527-8	SS-8 1"	S	Solid	DI Leach	
660-6527-9	SS-9 1"	S	Solid	DI Leach	
660-6527-10	SS-10 1"	S	Solid	DI Leach	
Analysis Batch:560-1	5226				
CS 560-15225/2-A	Lab Control Spike.	S	Solid	300.0	
MB 560-15225/1-A	Method Blank	s	Solid	300.0	
60-6527-1	SS-1 1"	S	Solid	300:0	
60-6527-1MS	Matrix Spike	S	Solid	300.0	
60-6527-1MSD	Matrix Spike Duplicate	Š	Solid	300.0	
660-6527-2	SS-2 1"	S	Solid	300.0	
560-6527 - 3	SS-3 1"	S	Solid	300.0	
560-6527-4	SS-4 1"	S	Solid	300.0	
560- 65 27 - 5	SS-5 1"	S	Solid	300.0	
560-6527-6	SS-6 1"	Š	Solid	300:0	
560-6527-7	SS-7 1"	Š	Solid	300.0	
560-6527 - 8	SS-8 1"	s	Solid	300.0	
560-6527-9	SS-9 1"	Š	Solid	300.0	
660-6527-10	SS-10 1"	S [.]	Solid	300.0	

Report Basis

S-=-Soluble

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Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Method Blank - Batch: 560-15202

Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-15202/2

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/14/2007 0930 Date Prepared: 09/14/2007 0930 Analysis Batch: 560-15202

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09140703.D Initial Weight/Volume: 5.00 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID:

PRIMARY

Analyte	Result	Qual	MDL	RL	
Benzene	0.0019	U	0.0019	0.0050	
Toluene	0.0021	U	0.0021	0.0050	
Ethylbenzene	0.0022	U	0.0022	0.0050	
Xylenes, Total	0.0067	U	0.0067	0.015	
Surrogate	% Rec	and a state of the	Acceptance Limits	a group whose Language is many National College (College	
4-Bromofluorobenzene (Surr)	77	51 - 127			
Trifluorotoluene (Surr)	80		50 - 129		

Method Blank - Batch: 560-15202

Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-15202/15

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/14/2007 1602

_Date Prepared: 09/14/2007 1602

Analysis Batch: 560-15202

Prep Batch: N/A

Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09140717.D Initial Weight/Volume: 5:00 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID:

PRIMARY

Analyte	Result	Qual	MDL	RL			
Benzene	0.0019	U	0.0019	0.0050			
Toluene	0.0021	U	0.0021	0.0050			
Ethylbenzene	0.0022	U-	0.0022	0.0050			
Xylenes, Total	0.0067	υ	0.0067	0:015			
Surrogate	% Rec		Acceptance Limits				
4-Bromofluorobenzene (Surr)	75	51 - 127					
Trifluorotoluene (Surr)	81		50 - 129	· ·			

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Lab Control Spike - Batch: 560-15202

Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-15202/1

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/14/2007 0902 Date Prepared: 09/14/2007 0902 Analysis Batch: 560-15202

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09140702.D
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.0200	0.0205	102	76 - 128	
Toluene	0.0200	.0200 0.0217 108		71 - 124	
Ethylbenzene	0.0200	0.0219 109		73 - 122	
Xylenes, Total	0.0400	0.0464	116	73 - 1 33	
Surrogate	% R	ec	Acc	ceptance Limits	
4-Bromofluorobenzene (Surr)	95	-		51 - 127	
Trifluorotoluene (Surr)	92				

Client: Larson & Associates, Inc. Job Number: 560-6527-1

Method Blank - Batch: 560-15271

Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-15271/2

Client Matrix: Solid
Dilution: 1.0

Date Analyzed: 09/17/2007 1527 Date Prepared: 09/17/2007 1527 Analysis Batch: 560-15271

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09170704.D Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL			
Benzene	0.0019	U	0.0019	0.0050			
Toluene	0.0021	U	0.0021	0.0050			
Ethylbenzene	0.0022	U	0.0022	0.0050			
Xylenes, Total	0.0067	U	0.0067	0.015			
Surrogate	% Rec		Acceptance Limits				
4-Bromofluorobenzene (Surr)	80		51 - 127				
Trifluorotoluene (Surr)	118		50 - 129				

Lab Control Spike - Batch: 560-15271

Method: 8021B Preparation: 5030B

Lab Sample ID: LCS-560-15271/1

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/17/2007 1459 Date Prepared: 09/17/2007 1459 Analysis Batch: 560-15271

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09170703.D Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
_Benzene	0.0200	0.0193	97	76 - 128	
Toluene	0.0200	0.0188	94	71 - 124	
Ethylbenzene	0.0209-	0.0184	92	7 3 - 122	
Xylenes, Total	0.0400	0.0377	94	73 - 133	
Surrogate	% R	ec	Acc		
4-Bromofluorobenzene (Surr)	82	-		51 - 127	
Trifluorotoluene (Surr)	11	9		50 - 129	

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Method Blank - Batch: 560-15226

Method: 300.0 Preparation: N/A

Lab Sample ID: MB 560-15225/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/14/2007 1530

Date Prepared: N/A

Date Leached: 09/14/2007 1200

Analysis Batch: 560-15226

Leachate Batch: 560-15225

Prep Batch: N/A

Units: mg/Kg

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte Result Qual MDL RL Chloride-S IJ 5.0 1.4 1.4

Lab Control Spike - Batch: 560-15226

Method: 300.0 Preparation: N/A

Lab-Sample ID: LCS 560-15225/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/14/2007 1530

Date Prepared: N/A

Date-Leached: 09/14/2007 1200

Analysis Batch: 560-15226

Prep Batch: N/A

Units: mg/Kg

Instrument ID: No Equipment Assigned

Instrument ID: No Equipment Assigned

Instrument ID: No Equipment Assigned

N/A

Initial-Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Lab File ID: N/A

Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL

Limit

% Rec.

Leachate Batch: 560-15225

Analyte Spike Amount. Result

Chloride-S 100 92.6 93 70 - 130

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 560-15226

Method: 300.0 Preparation: N/A-

Lab File ID:

MS Lab Sample ID:

Client Matrix:

560-6527-1

Solid

1.0

Date Analyzed: 09/14/2007 1530

Date Prepared:

Dilution:

N/A 09/14/2007 1200

Date Leached:

MSD-Lab-Sample ID: 560-6527-1 Client-Matrix:

Solid

Dilution: 1.0

Date Analyzed:

09/14/2007 1530

Date Prepared:

Date Leached:

N/A 09/14/2007 1200 Leachate Batch: 560-15225

Prep Batch: N/A

Prep Batch: N/A

Analysis Batch: 560-15226

Analysis Batch: 560-15226

Lab File ID: N/A

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Leachate Batch: 560-15225

% Rec.

Analyte MS MSD Limit **RPD RPD Limit** MS Qual MSD-Qual Chloride-S 83 82 70 - 130 30

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Qual-



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 (0 Nº 30091 CHAIN-OF-CUSTOD

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☐ DHI DISPOSAL® \$5.00 each ☐ Beturn								OTHER D CTAPO DELIVERY																		

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Larson & Associates, Inc.

Job Number: 560-6527-1

Login Number: 6527

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	sealed
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	•
Cooler Temperature is recorded.	True	3.2 C IR #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	1
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do-not require splitting or compositing.	True	



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229

√ № 30091

CHAIN-OF-CUSTODY

CLIENT:LARSON & ASSOCIATION ADDRESS:							PO#:_ PROJEC	CT LOCA	13/07 FION OR NA	ME:	HL WOF	K ORD	ER#:_ State	- A'
Authorize 5% surcharge for TRRP report? Yes No Field Sample I.D.	W=WATER SI A=AIR O	T=OTHER	Container Type #		H ₂ SO ₄ U NaOHU ICE UNPRESERVED		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							FIELD NOTES
SS-1 1' SS-2 1' SS-3 1' SS-4 1' SS-5 1' SS-6 1' SS-71' SS-9 1' SS-9 2' SS-10 1'		1230 S 1235 1241 1250 1254 1259 1306 1311 1319 1325				X						X 		Choride by (300.0)
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September 18, 2007

Order No.: 0709102

Michelle Green

Larson & Associates

507 N. Marienfeld #202

Midland, TX 79701

TEL: (432) 687-0901

FAX (432) 687-0456

RE: Frisco State "A"

Dear Michelle Green:

DHL Analytical received 10 sample(s) on 9/14/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

Iohn DuPont General Manager

This report was performed under the accreditation of the State of New Mexico Laboratory Certification Number:



TABLE OF CONTENTS

This report for Larson & Associates: Frisco State "A" (DHL Work Order 0709102) contains the following information:

	ITEM	Page
•	Cover Page	. 1
•	Table of Contents	2
•	Original chain of custody, FedEx slip (if used), log-in checklist	3-5
•	Case Narrative	6
•	Work Order Summary	7
•	Preparation Dates Report	8-9
•	Analytical Dates Report	10-11
•	Sample Results	12-21
•	QC Summary Report	22-26
•	Total Number of Pages	26

September 18, 2007

Approved:



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 № 29377

CHAIN-OF-CUSTODY

CLIENT: Larse	n + Hss	soc							Τ,		.E.	9	1/3/	07	,										PAGE	7	OF	7	
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Authorize 5% surcharge for TRRP report?	W=WATER S	P=PAINT SL=SLUDGE DT=OTHER			RESER	T	ON												3/1					NICE STATE					7
☐Yes ☐ No		 		Containers	HNO _s		UNPRESERVED		Jest)							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8/8/ S/S/S/S/S												
Field Sample I.D.	DHL Lab # Date	Time Matrix		# of CC	NH H	ICE	UNPRE	ANA							8/8 3/2				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18/	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(\$) [FIE	ELD NO	TES	
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Splone Divernight



Airbill No. Z3558835

Lone Star Overnight 800.800.8984 www.lso.com

To: SAMPLE RECEIVING

DHL ANALYTICAL

2300 DOUBLE CREEK DRIVE

ROUND ROCK, TX 78664

(512) 388 - 8222

Service Type: By 10:30am 1D00V From: MICHELLE GREEN
LARSON& ASSOCIATES, INC,
507 N.MARIENFELD
SUITE 202
MIDLAND: TX 79701
(432) 687 - 0901

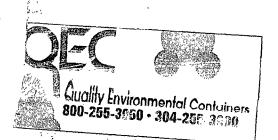
AUS

By 10:30am

QuickCode: DHL
Date Printed: 9/13/2007

1

DATE 9/13/07 SIGNATURE SUCCESSIONATURE



Client Name Larson & Associates

Sample Receipt Checklist

Date Received:

9/14/2007

Work Order Number 0709102			Receiv	ed by JB	
Checklist completed by: Signature	9./4	1.07	Review	ved by	09/14/07 bate
	Carrier name:	LoneSta	ŗ		
Shipping container/cooler in good condition?		Yes 🗹	No 🗆	Not Present	
Custody seals intact on shippping container/cod	oler?	Yes 🗹	No 🗆	Not Present	
Custody seals intact on sample bottles?		Yes 🗌	No 🗆	Not Present	
Chain of custody present?		Yes 🗹	No 🗆		
Chain of custody signed when relinquished and	received?	Yes 🗹	No 🗆		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗆		
Samples in proper container/bottle?		Yes 🗹	No \square		
Sample containers intact?		Yes 🗹	No 🗆		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗆	,	
All samples received within holding time?		Yes 🗹	No 🗆		
Container/Temp Blank temperature in complian	ice?	Yes 🗹	No 🗆		
Water - VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA vials subm	itted 🗹
Water - pH acceptable upon receipt?		Yes	No 🗌	Not Applicable 🗹	
	Adjusted?		Checked by		
Any No response must be detailed in the comm	ents section below.				
Client contacted	Date contacted:			Person contacted	
Contacted by:	Regarding:				
Comments:					
Corrective Action					
			-		

CLIENT: Larson & Associates Project: Frisco State "A"

0709102 Lab Order:

CASE NARRATIVE

Date: 18-Sep-07

Samples were analyzed using the methods outlined in the following references:

Method M8015V - GRO Analysis Method M8015D - DRO+ORO Analysis Method D2216 - Percent Moisture (Parameter Not NELAC Certified)

LOG IN

Samples were received and log-in performed on 9/14/07. A total of 10 samples were received. The samples arrived in good condition and were properly packaged.

DRO+ORO ANALYSIS

For DRO+ORO analysis, the recovery of the matrix spike (0709102-03A-MS) was slightly below control limits for the TPH-DRO range. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Date: 18-Sep-07

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Lab Order:

0709102

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0709102-01	SS-1 (1')		09/13/07 12:30 PM	9/14/2007
0709102-02	SS-2 (1')		09/13/07 12:35 PM	9/14/2007
0709102-03	SS-3 (1')		09/13/07 12:41 PM	9/14/2007
0709102-04	SS-4 (1')		09/13/07 12:50 PM	9/14/2007
0709102-05	SS-5 (1')		09/13/07 12:54 PM	9/14/2007
0709102-06	SS-6 (1')		09/13/07 12:59 PM	9/14/2007
0709102-07	SS-7 (1')		09/13/07 01:06 PM	9/14/2007
0709102-08	SS-8 (1')		09/13/07 01:11 PM	9/14/2007
0709102-09	SS-9 (1')		09/13/07.01:19 PM	9/14/2007
0709102-10	SS-10 (1')		09/13/07 01:25 PM	9/14/2007

Lab Order:

0709102

Client:

Larson & Associates

Project:

Frisco State "A"

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
709102-01A	SS-1 (1')	09/13/07 12:30 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-1 (1')	09/13/07 12:30 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-1 (1')	09/13/07 12:30 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-02A	SS-2 (1')	09/13/07 12:35 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-2 (1')	09/13/07 12:35 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-2 (1')	09/13/07 12:35 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-03A	SS-3 (1')	09/13/07 12:41 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-3 (1')	09/13/07 12:41 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-3 (1')	09/13/07 12:41 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-04A	SS-4 (1')	09/13/07 12:50 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-4 (1')	09/13/07 12:50 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-4 (1')	09/13/07 12:50 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-05A	SS-5 (1')	09/13/07 12:54 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-5 (1')	09/13/07 12:54 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-5 (1')	09/13/07 12:54 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-06A	SS-6 (1')	09/13/07 12:59 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-6 (1')	09/13/07 12:59 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-6 (1')	09/13/07 12:59 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-07A	SS-7 (1')	09/13/07 01:06 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-7 (1')	09/13/07 01:06 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-7 (1')	09/13/07 01:06 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-08A	SS-8 (1')	09/13/07 01:11 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-8 (1')	09/13/07 01:11 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-8 (1')	09/13/07 01:11 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-09A	SS-9 (1')	09/13/07 01:19 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A
	SS-9 (1')	09/13/07 01:19 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-9 (1')	09/13/07 01:19 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242
709102-10A	SS-10 (1')	09/13/07 01:25 PM	Soil	D2216	Percent Moisture	09/14/07 10:00 AM	PMOIST_070914A

Page 1 of 2

DHL Analytical 18-Sep-07

Lab Order:

0709102

Client:

Larson & Associates

Project:

Frisco State "A"

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0709102-10A	SS-10 (1')	09/13/07 01:25 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	09/14/07 09:25 AM	27220
	SS-10 (1')	09/13/07 01:25 PM	Soil	SW3550B	Soil Prep Sonication: DRO	09/17/07 08:40 AM	27242

Lab Order:

0709102

Client:

Larson & Associates

Project:

Frisco State "A"

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0709102-01A	SS-1 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 10:57 AM	GC4_070914A
	SS-1 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-1 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 02:16 PM	GC15_070917A
0709102-02A	SS-2 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 12:03 PM	GC4_070914A
	SS-2 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-2 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 02:22 PM	GC15_070917A
)709102-03A	SS-3 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 12:24 PM	GC4_070914A
	SS-3 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-3 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 03:02 PM	GC15_070917A
709102-04A	SS-4 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 12:46 PM	GC4_070914A
	SS-4 (1')	Soil	D2216	Percent Moisture	PMOIST_070914	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-4 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 02:02 PM	GC15_070917A
709102-05A	SS-5 (1')	Soil	M8015V	Modified 801'5 Gasoline (GRO)	27220	1	09/14/07 01:08 PM	GC4_070914A
	SS-5 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-5 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 02:09 PM	GC15_070917A
709102-06A	SS-6 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 01:30 PM	GC4_070914A
	SS-6 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
`	SS-6 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 01:49 PM	GC15_070917A
709102-07A	SS-7 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 02:14 PM	GC4_070914A
	SS-7 (1')	Soil	D2216	Percent Moisture	PMOIST_070914	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-7 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 01:36 PM	GC15_070917A
709102-08A	SS-8 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 02:36 PM	GC4_070914A
	SS-8 (1')	Soil	D2216	Percent Moisture	PMOIST_070914	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-8 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 01:43 PM	GC15_070917A
709102-09A	SS-9 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 02:58 PM	GC4_070914A
	SS-9 (1')	Soil	D2216	Percent Moisture	PMOIST_070914A	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-9 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 02:55 PM	GC15_070917A
709102-10A	SS-10 (1')	Soil	M8015V	Modified 8015 Gasoline (GRO)	27220	1	09/14/07 03:20 PM	GC4_070914A

Page 1 of 2

DHL Analytical 18-Sep-07

Lab Order:

0709102

Client:

Larson & Associates

Project:

Frisco State "A"

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0709102-10A	SS-10 (1')	Soil	D2216	Percent Moisture	PMOIST_070914	A 1	09/14/07 05:00 PM	PMOIST_070914A
	SS-10 (1')	Soil	M8015D	TPH by GC - Soil DRO+ORO	27242	1	09/17/07 01:56 PM	GC15 070917A

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-1 (1')

Lab ID: 0709102-01

Collection Date: 09/13/07 12:30 PM

Matrix: SOIL

Analyses	Result	' MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	5.02	3.04	10.1	J	mg/Kg-dry	1	09/17/07 02:16 PM
TPH-ORO > C28-C35	7.13	3.04	10.1	. J	mg/Kg-dry	1	09/17/07 02:16 PM
Surr: o-Terphenyl	74.2	0	47-142		%REC	1	09/17/07 02:16 PM
Surr: Octacosane	77.0	0	25-162		%REC	1	09/17/07 02:16 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0580	0.193		mg/Kg-dry	1	09/14/07 10:57 AM
Surr: Tetrachlorethene	112	0	70-134		%REC	1	09/14/07 10:57 AM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	4.17	0	0	N	WT%	1	09/14/07 05:00 PM

Qualifiers:

* Value exceeds TCLP Maximum Concentration Level

C Sample Result or QC discussed in the Case Narrative

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

B Analyte detected in the associated Method Blank

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Spike Recovery outside control limits Page 1 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-2 (1')

Lab ID: 0709102-02

Collection Date: 09/13/07 12:35 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	30.7	3.06	10.2		mg/Kg-dry	1	09/17/07 02:22 PM
TPH-ORO > C28-C35	12.0	3.06	10.2		mg/Kg-dry	1	09/17/07 02:22 PM
Surr: o-Terphenyl	78.2	0	47-142		%REC	1	09/17/07 02:22 PM
Surr: Octacosane	68.0	0	25-162		%REC	1	09/17/07 02:22 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0603	0.201		mg/Kg-dry	1	09/14/07 12:03 PM
Surr: Tetrachlorethene	110	0	70-134		%REC	1	09/14/07 12:03 PM
PERCENT MOISTURE		, D22	16				Analyst: TPO
Percent Moisture	6.15	0	0	N	WT%	1	09/14/07 05:00 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
 - S Spike Recovery outside control limits Page 2 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-3 (1')

Lab ID: 0709102-03

Collection Date: 09/13/07 12:41 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	13.0	2.98	9.95		mg/Kg-dry	1	09/17/07 03:02 PM
TPH-ORO > C28-C35	21.4	2.98	9.95		mg/Kg-dry	1	09/17/07 03:02 PM
Surr: o-Terphenyl	76.5	0	47-142		%REC	1	09/17/07 03:02 PM
Surr: Octacosane	72.2	´ 0	25-162		%REC	1	09/17/07 03:02 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0567	0.189		mg/Kg-dry	1	09/14/07 12:24 PM
Surr: Tetrachlorethene	90.1	. 0	70-134		%REC	1	09/14/07 12:24 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	3.82	0	0	N	WT%	1	09/14/07 05:00 PM

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- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
 - RL Reporting Limit
 - N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
 - Spike Recovery outside control limits Page 3 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-4 (1')

Lab ID: 0709102-04

Collection Date: 09/13/07 12:50 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	12.8	3.10	10.3		mg/Kg-dry	1	09/17/07 02:02 PM
TPH-ORO > C28-C35	8.30	3.10	10.3	J	mg/Kg-dry	1	09/17/07 02:02 PM
Surr: o-Terphenyl	77.0	0	47-142		%REC	1	09/17/07 02:02 PM
Surr: Octacosane	68.0	0	25-162		%REC	1	09/17/07 02:02 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0605	0.202		mg/Kg-dry	1	09/14/07 12:46 PM
Surr: Tetrachlorethene	107	0	70-134		%REC	1	09/14/07 12:46 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	4.71	0	0	N	WT%	1	09/14/07 05:00 PM

Qualifiers:

Value exceeds TCLP Maximum Concentration Level

C Sample Result or QC discussed in the Case Narrative

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

B Analyte detected in the associated Method Blank

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Spike Recovery outside control limits Page 4 of 10

Date: 18-Sep-07

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Client Sample ID: SS-5 (1')

Lab ID: 0709102-05

Collection Date: 09/13/07 12:54 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	5.30	3.05	10.2	J	mg/Kg-dry	1	09/17/07 02:09 PM
TPH-ORO > C28-C35	8.76	3.05	10.2	J	mg/Kg-dry	1	09/17/07 02:09 PM
Surr: o-Terphenyl	74.8	0	47-142		%REC	1	09/17/07 02:09 PM
Surr: Octacosane	65.9	0	25-162		%REC	1	09/17/07 02:09 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0571	0.190		mg/Kg-dry	1	09/14/07 01:08 PM
Surr: Tetrachlorethene	108	0	70-134		%REC	1	09/14/07 01:08 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	4.39	0	0	N	WT%	1	09/14/07 05:00 PM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
 - Spike Recovery outside control limits Page 5 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No: Lab Order: 7-0111 0709102

Client Sample ID: SS-6 (1')

Lab ID: 0709102-06

Date: 18-Sep-07

Collection Date: 09/13/07 12:59 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	6.82	3.00	10.0	J	mg/Kg-dry	1	09/17/07 01:49 PM
TPH-ORO > C28-C35	ND	3.00	10.0		mg/Kg-dry	1	09/17/07 01:49 PM
Surr: o-Terphenyl	75.7	0	47-142		%REC	1	09/17/07 01:49 PM
Surr: Octacosane	70.0	0	25-162		%REC	1	09/17/07 01:49 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0548	0.183		mg/Kg-dry	1	09/14/07 01:30 PM
Surr: Tetrachlorethene	112	0	70-134		%REC	1	09/14/07 01:30 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	5.58	0	0	N	WT%	1	09/14/07 05:00 PM

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- Value exceeds TCLP Maximum Concentration Level
- \mathbf{C} Sample Result or QC discussed in the Case Narrative
- Ε TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- Reporting Limit
- Parameter not NELAC certified

- В Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
 - Spike Recovery outside control limits Page 6 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-7 (1')

Lab ID: 0709102-07

Collection Date: 09/13/07 01:06 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	4.67	3.27	10.9	J	mg/Kg-dry	1	09/17/07 01:36 PM
TPH-ORO > C28-C35	5.24	3.27	10.9	J	mg/Kg-dry	1	09/17/07 01:36 PM
Surr: o-Terphenyl	73.4	0	47-142		%REC	1	09/17/07 01:36 PM
Surr: Octacosane	61.4	0	25-162		%REC	1	09/17/07 01:36 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0607	0.202		mg/Kg-dry	1	09/14/07 02:14 PM
Surr: Tetrachlorethene	113	0	70-134		%REC	1	09/14/07 02:14 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	10.1	0	0	N	WT%	1	09/14/07 05:00 PM

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- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits Page 7 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

0709102 Lab Order:

Client Sample ID: SS-8 (1')

Lab ID: 0709102-08 Collection Date: 09/13/07 01:11 PM

Date: 18-Sep-07

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	6.44	3.11	10.4	J	mg/Kg-dry	1	09/17/07 01:43 PM
TPH-ORO > C28-C35	3.13	3.11	10.4	J	mg/Kg-dry	1	09/17/07 01:43 PM
Surr: o-Terphenyl	78.4	0	47-142		%REC	1	09/17/07 01:43 PM
Surr: Octacosane	66.6	0	25-162		%REC	1	09/17/07 01:43 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0621	0.207		mg/Kg-dry	1	09/14/07 02:36 PM
Surr: Tetrachlorethene	113	0	70-134		%REC	1	09/14/07 02:36 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	5.35	0	0	N	WT%	1	09/14/07 05:00 PM

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- Value exceeds TCLP Maximum Concentration Level
- \mathbf{C} Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- Reporting Limit
- Parameter not NELAC certified

- В Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- Spike Recovery outside control limits

Page 8 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Client Sample ID: SS-9 (1')

Lab ID: 0709102-09

Date: 18-Sep-07

Collection Date: 09/13/07 01:19 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	19.6	3.35	11.2		mg/Kg-dry	1	09/17/07 02:55 PM
TPH-ORO >C28-C35	11.9	3.35	11.2		mg/Kg-dry	1	09/17/07 02:55 PM
Surr: o-Terphenyl	69.5	0	47-142		%REC	1	09/17/07 02:55 PM
Surr: Octacosane	59.9	0	25-162		%REC	1 .	09/17/07 02:55 PM
MODIFIED 8015 GASOLINE (GRO)		M801	15V				Analyst: DEW
Gasoline Range Organics	ND	0.0636	0.212		mg/Kg-dry	1	09/14/07 02:58 PM
Surr: Tetrachlorethene	101	0	70-134		%REC	1	09/14/07 02:58 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	12.6	0	0	N	WT%	1	09/14/07 05:00 PM

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- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
 - Spike Recovery outside control limits Page 9 of 10

CLIENT:

Larson & Associates

Project:

Frisco State "A"

Project No:

7-0111

Lab Order:

0709102

Date: 18-Sep-07

Client Sample ID: SS-10 (1')

Lab ID: 0709102-10

Collection Date: 09/13/07 01:25 PM

Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		M801	5D				Analyst: DO
TPH-DRO C10-C28	7.36	2.88	9.61	J	mg/Kg-dry	1	09/17/07 01:56 PM
TPH-ORO > C28-C35	ND	2.88	9.61		mg/Kg-dry	1	09/17/07 01:56 PM
Surr: o-Terphenyl	71.8	0	47-142		%REC	1	09/17/07 01:56 PM
Surr: Octacosane	60.2	0	25-162		%REC	1	09/17/07 01:56 PM
MODIFIED 8015 GASOLINE (GRO)		M801	5V				Analyst: DEW
Gasoline Range Organics	ND	0.0606	0.202		mg/Kg-dry	1	09/14/07 03:20 PM
Surr: Tetrachlorethene	112	0	70-134		%REC	1	09/14/07 03:20 PM
PERCENT MOISTURE		D22	16				Analyst: TPO
Percent Moisture	4.73	0	0	N	WT%	1	09/14/07 05:00 PM

Qualifiers:

- Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits Page 10 of 10

Date: 18-Sep-07

CLIENT:

Larson & Associates

Work Order:

0709102

Project:

Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC15_070917A

Sample ID: LCS-27242	Batch ID:	27242		TestNo	: M80	15D		Units:	mg/Kg	ļ
SampType: LCS	Run ID:	GC15_0	70917A	Analysi	s Date: 9/17	//2007 1:10:	13 PM	Prep Date:	9/17/2	007
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qua
TPH-DRO C10-C28		183	10.0	250.0	0	73.1	50	114		
Surr: o-Terphenyl		12.7		15.00		84.9	47	142		
Surr: Octacosane		10.4		15.00		69.3	25	162		
Sample ID: MB-27242	Batch ID:	27242		TestNo	: M80)15D		Units:	mg/Kg]
SampType: MBLK	Run ID:	GC15_0	70917A	Analysi	is Date: 9/17	//2007 1:30:	:03 PM	Prep Date:	9/17/2	007
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD F	PDLimit Qua
TPH-DRO C10-C28		ND	10.0			-			_	
TPH-ORO >C28-C35		ND	10.0							
Surr: o-Terphenyl		11.2		15.00		74.6	47	142		
Surr: Octacosane		8.62		15.00		57.5	25	162		
Sample ID: 0709102-03A-MS	Batch ID:	27242		TestNo	: M80)15D		Units:	mg/Kg	g-dry
SampType: MS	Run ID:	GC15_0	70917A	Analysi	is Date: 9/17	7/2007 3:08:	:40 PM	Prep Date: 9/17/2007		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit 9	%RPD F	PDLimit Qua
TPH-DRO C10-C28		130	10.2	255.3	12.98	45.7	50	114		s
Surr: o-Terphenyl		10.5		15.32		68.3	47	142		
Surr: Octacosane		9.37		15.32		61.2	25	162		
Sample ID: 0709102-03A-MSD	Batch ID:	27242		TestNo	: M80)15D		Units:	mg/K	g-dry
SampType: MSD	Run ID:	GC15_0	70917A	Analysi	is Date: 9/17	//2007 3:15:	12 PM	Prep Date:	9/17/2	007
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit '	%RPD F	RPDLimit Qua
TPH-DRO C10-C28		145	10.1	253.3	12.98	52.3	50	114	11.5	30
			= -							
Surr: o-Terphenyl		11.2		15.20		73.8	47	142	0	0

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

Page 1 of 5

CLIENT:

Larson & Associates

Work Order:

TPH-DRO C10-C28

TPH-ORO >C28-C35

Surr: o-Terphenyl

Surr: Octacosane

0709102

Project:

Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC15 070917A

Project: Prisco S	naic A				Kuiiii	· ·	GC15_07	0717A
Sample ID: ICV-070917	Batch ID: R33682		TestNo	o: M80	15D		Units:	mg/Kg
SampType: ICV	Run ID: GC15_0	70917A	Analys	is Date: 9/17	/2007 1:03	:29 PM	Prep Date	e :
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
TPH-DRO C10-C28	1120	10.0	1000	0	112	85	115	
TPH-ORO >C28-C35	0.937	10.0	0	•				
Surr: o-Terphenyl	53.4		60.00		89.1	47	142	
Surr: Octacosane	47.3		60.00		78.8	25	162	
Sample ID: CCV1-070917	Batch ID: R33682		TestNo): M80	15D	<u> </u>	Units:	mg/Kg
SampType: CCV	Run ID: GC15_0	70917A	Analysis Date: 9/17/2007 2:35:4			:44 PM	Prep Date	: :
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
TPH-DRO C10-C28	514	10.0	500.0	0	103	85	115	
TPH-ORO >C28-C35	2.75	10.0	0					
Surr: o-Terphenyl	32.2		30.00		107	47	142	
Surr: Octacosane	34.9		30.00		116	25	162	
Sample ID: CCV2-070917	Batch ID: R33682		TestNo	o: M80	15D		Units:	mg/Kg
SampType: CCV	Run ID: GC15_0	70917A	Analys	is Date: 9/17	/2007 3:28	:19 PM	Prep Date	e:
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua

500.0

0

30.00

30.00

0

110

108

122

85

47

25

115

142

162

Qualifiers:

B Analyte detected in the associated Method Blank

552

3.15

32.3

36.6

10.0

10.0

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Cuite Beautiful and Himit

S Spike Recovery outside control limits

Page 2 of 5

CLIENT:

Larson & Associates

Work Order:

0709102

Project:

Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC4_070914A

Sample ID: LCS-27220	Batch ID:	27220		TestNo:	M80	15V		Units:	mg/Kg		
SampType: LCS	Run ID:	GC4_07)914A	Analysis Date: 9/14/2007 10:13:00 AM			Prep Date:	9/14/20	007		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD R	PDLimit Qual	
Gasoline Range Organics		5.23	0.200	5.000	0	105	68	126			
Surr: Tetrachiorethene		0.442		0.4000		111	70	134 			
Sample ID: MB-27220	Batch ID:	27220		TestNo:	M80	15V		Units:	mg/Kg	!	
SampType: MBLK	Run ID:	GC4_07	0914A	Analysis Date: 9/14/2007 10:35:04 AM			6:04 AM	Prep Date:	9/14/2	007	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	it HighLimit %	RPD R	PDLimit Qual	
Gasoline Range Organics	_	ND	0.200								
Surr: Tetrachlorethene		0.465		0.4000		116	70	134			
Sample ID: 0709102-01AMS	Batch ID:	27220		TestNo: M8015V				Units:		-dry	
SampType: MS	Run ID:	Run ID: GC4_070914A			Analysis Date: 9/14/2007 11:19				9:15 AM Prep Date: 9/14/2007		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual	
Gasoline Range Organics		4.62	0.197	4.922	0	93.8	68	126			
Surr: Tetrachlorethene		0.411		0.3938		104	70	134			
Sample ID: 0709102-01AMSD	Batch ID:	27220		TestNo:	M80)15V		Units:	mg/Kg	-dry	
SampType: MSD	Run ID: GC4_070914A		Analysis	I:11 AM	11 AM Prep Date: 9/14/2007		007				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD R	PDLimit Qual	
Gasoline Range Organics		4.48	0.190	4.743	0	94.5	68	126	3.02	30	
Surr: Tetrachlorethene		0.397		0.3794		105	70	134	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Spike Recovery outside control limits

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CLIENT:

Larson & Associates

Work Order:

0709102

Project:

Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC4_070914A

Sample ID: ICV-070914	Batch ID:	R33661		TestNo:	M80	15V		Units:	mg/Kg
SampТуре: ICV	Run ID: GC4_070914			Analysis Date: 9/14/2007 9:51			04 AM Prep Date		e:
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLin	it HighLimit	%RPD RPDLimit Qua
Gasoline Range Organics		11.0	0.200	10.00	0	110	85	115	
Surr: Tetrachlorethene		0.439		0.4000		110	74	138	
Sample ID: CCV1-070914	Batch ID:	R33661		TestNo:	M80	15V		Units:	mg/Kg
SampType: CCV	Run ID: GC4_070914A			Analysis Date: 9/14/2007 1:52:40 PM				Prep Date:	
Analyte		Result	, RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit	%RPD RPDLimit Qua
Gasoline Range Organics		5.24	0.200	5.000	0	105	85	115	
Surr: Tetrachlorethene		0.448		0.4000		112	74	138	
Sample ID: CCV2-070914	Batch ID:	R33661		TestNo:	M80	15V		Units:	mg/Kg
SampType: CCV	Run ID: GC4_070914A			Analysis Date: 9/14/2007 6:16:07 PM				Prep Date) :
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit	%RPD RPDLimit Qua
Gasoline Range Organics		5.32	0.200	5.000	0	106	85	115	
Surr: Tetrachlorethene		0.446		0.4000		112	74	138	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

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S Spike Recovery outside control limits

CLIENT:

Larson & Associates

Work Order:

0709102

Project:

Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

PMOIST_070914A

Sample ID: 0709102-10A DUP	Batch ID:	PMOIST	_070914A	TestNo	: D22	16	Units:	WT?	6	
SampType: DUP	,Run ID:	PMOIST	_070914A	Analysi	s Date: 9/14	/2007 5:00:	00 PM Prep Date	e: 9/14	/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit	%RPD	RPDLimi	t Qual
Percent Moisture		4.44	0	0	4.728			6.17	30	N

Qualifiers:

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit RL

Parameter not NELAC certified

DF Dilution Factor

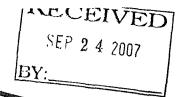
MDL Method Detection Limit

RPD outside accepted control limits

Spike Recovery outside control limits

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ANALYTICAL REPORT

Job Number: 560-6396-1

Job Description: Friscoe State "A"

For:

Larson & Associates, Inc. 507 N Marienfeld Suite 202 Midland, TX 79701

Attention: Ms. Michelle Green

Julie Darrow
Project Manager I
jdarrow@stl-inc.com

09/20/2007

Juli Jana

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TestAmerica Corpus Christi 1733 N. Padre Island Drive, Corpus Christi, TX 78408 Tel (361) 289-2673 Fax (361) 289-2471 www.testamericainc.com



Job Narrative 560-J6396-1

Aromatic Volatile Organic (BTEX) Analysis

Sample 560-6396-8 was analyzed for BTEX analysis using EPA Method 8021B in batch 560-14929. The percent recovery results for the surrogates associated with sample 8 were below the acceptance criteria for 4-bromochlorobenzene (BFB) and trifluorotoluene (TFT). Evidence of matrix interference is present in sample 8; therefore, re-extraction and /or re-analysis was not performed. The method blank and LCS were within acceptable limits and the data are therefore reported.

Samples 560-6396-10 and 11 were analyzed for BTEX analysis using EPA Method 8021B in batch 560-14940. Samples 10 and 11 required dilution due to the nature of the sample matrix. The reporting limits are therefore elevated. In addition, no matrix spike or matrix spike duplicate was analyzed in this analysis batch due the nature of the samples. The method blank and LCS were within acceptable limits. Furthermore, the percent recovery results for the surrogates associated with samples 10 and 11 were outside the acceptance criteria for 4-bromofluorobenzene (BFB). The method blank and LCS were within acceptable limits and the out of control data are due to matrix interference. The data are therefore reported.

Diesel Range Organics (DRO) Analysis

Samples 560-6396-1 through 11 were analyzed for DRO using EPA Method 8015B in batch 560-36205. The percent recovery results for the matrix spike and matrix spike duplicate associated with this batch and sample 1 was below the acceptance criteria. The method blank and LCS were within acceptable limits and the out of control data is due to high target analyte concentration. The method blank and LCS were within acceptable limits and the data are therefore reported. In addition, the surrogates associated with samples 1 through 11 were not able to be evaluated due to the level of required sample dilution. The method blank and LCS were withins acceptable limits and the data are therefore reported.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
560-6396-1	LOC1 0-1				
Gasoline Range Org C10-C28	ganics (GRO)-C6-C10	0.43 4000	0.099 130	mg/Kg mg/Kg	8015M 8015B
Soluble Chloride-S		15	5.0	mg/Kg	300.0
560-6396-2	LOC1 1-2				
Gasoline Range Org C10-C28	ganics (GRO)-C6-C10	0.80 6700	0.10 130	mg/Kg mg/Kg	8015M 8015B
Soluble Chloride-S		65	5.0	mg/Kg	300.0
560-6396-3	LOC1 2-3				
Gasoline Range Org Ethylbenzene Xylenes, Total C10-C28	ganics (GRO)-C6-C10	0.37 0.0046 0.0070 J 3300	0.10 0.0044 0.013 200	mg/Kg mg/Kg mg/Kg mg/Kg	8015M 8021B 8021B 8015B
Soluble Chloride-S		80	5.0	mg/Kg	300.0
560-6396-4	LOC1 3-4				
Gasoline Range Org C10-C28	ganics (GRO)-C6-C10	0.15 230	0.099 66	mg/Kg ` mg/Kg	8015M 8015B
Soluble Chloride-S		92	5.0	mg/Kg	300.0
560-6396-5	LOC1 4-5				
C10-C28		300	66	mg/Kg	8015B
Soluble Chloride-S		8.1	5.0	mg/Kg	300.0
560-6396-6	LOC1 5-6				
C10-C28		540	66	mg/Kg	8015B
Soluble Chloride-S		29	5.0	mg/Kg	300.0

EXECUTIVE SUMMARY - Detections

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Lab Sample ID Analyte	Client Sample ID	Result / C	Qualifier	Reporting Limit	Units	Method
560-6396-7	LOC1 6-7					
Gasoline Range Or C10-C28	ganics (GRO)-C6-C10	0.42 3100		0.10 66	mg/Kg mg/Kg	8015M 8015B
<i>Soluble</i> Chloride-S		12		5.0	mg/Kg	300.0
560-6396-8	LOC1 7-8					
Gasoline Range Or C10-C28	ganics (GRO)-C6-C10	0.24 1500		0.098 66	mg/Kg mg/Kg	8015M 8015B
Soluble Chloride-S		8.2		5.0	mg/Kg	300.0
560-6396-9	LOC1 8-9		,			
Gasoline Range Or C10-C28	rganics (GRO)-C6-C10	0.99 730		0.097 66	mg/Kg mg/Kg	8015M 8015B
Soluble Chloride-S		9.2		5.0	mg/Kg	300.0
560-6396-10	LOC1 9-10					
Gasoline Range Or Xylenes, Total C10-C28	rganics (GRO)-C6-C10	130 0.89 9400	B J	5.0 2.6 .330	mg/Kg mg/Kg mg/Kg	8015M 8021B 8015B
Soluble Chloride-S		21		5.0	mg/Kg	300.0
560-6396-11	LOC110-11					
Gasoline Range Or Ethylbenzene Xylenes, Total C10-C28	rganics (GRO)-C6-C10	940 3.2 31 8500	В	50 0.44 2.6 330	mg/Kg mg/Kg mg/Kg mg/Kg	8015M 8021B 8021B 8015B
<i>Soluble</i> Chloride-S		34		5.0	mg/Kg	300.0

METHOD SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
GRO by 8015M	TAL PEN	SW846 8015M	
Closed System Purge & Trap/Field Preservation	TAL PEN		SW846 5035
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ELCD	TAL CC	SW846 8021B	
Purge and Trap for Methanol Extractions	TAL CC		SW846 5030B
Purge and Trap for Solids	TAL CC		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL TAL	SW846 8015B	
Ultrasonic Extraction	TAL TAL		SW846 3550B
Anions by Ion Chromatography	TAL CC	MCAWW 300.0)
Deionized Water Leaching Procedure (Routine)	TAL CC		ASTM DI Leach

Lab References:

TAL CC = TestAmerica Corpus Christi

TAL PEN = TestAmerica Pensacola

TAL TAL = TestAmerica Tallahassee

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Method	Analyst	Analyst ID
SW846 8015M SW846 8015M	Harris, John Potts, Charles	JH CP
SW846 8021B SW846 8021B	Gonzales, Roman J Haas, Richard	RJG RH
SW846 8015B	Thomas, Martin L	MLT
MCAWW 300.0	Alvarez, Tracy L	TLA

SAMPLE SUMMARY

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
560-6396-1	LOC1 0-1	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-2	LOC1 1-2	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-3	LOC1 2-3	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-4	LOC1 3-4	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-5	LOC1 4-5	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-6	LOC1 5-6	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-7	LOC1 6-7	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-8	LOC1 7-8	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-9	LOC1 8-9	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-10	LOC1 9-10	Soil	09/04/2007 0000	09/06/2007 0836
560-6396-11	LOC110-11	Soil	09/04/2007 0000	09/06/2007 0836

SAMPLE RESULTS

Client Sample ID: LOC1 0-1 Lab Sample ID: 560-6396-1 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution
Method: 8021B			Date An	alyzed: 09/06	6/2007 1122	
Prep Method: 5030B			Date Pro	epared: 09/06	6/2007 1122	
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate				Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	57		%		51 - 127	
Trifluorotoluene (Surr)	63		%		50 - 129	

Date Sampled: 09/04/2007 0000

Date Received: 09/06/2007 0836

Job Number: 560-6396-1

Client Matrix: Soil

Client Sample ID: LOC1 0-1 Lab Sample ID: 560-6396-1

Analyte	Result/Qua	lifier	Unit	MDL	. RL	Dilution
Method: 8015M			Date An	alyzed:	09/09/2007 0746	
Prep Method: 5035			Date Pro	epared:	09/08/2007 1236	
Gasoline Range Organics (GRO)-C6-C10	0.43		mg/Kg	0.03	3 0.099	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	100		%		60 - 134	
Method: 8015B			Date An	alyzed:	09/11/2007 1821	
Prep Method: 3550B			Date Pr	epared:	09/11/2007 1100	
C10-C28	4000		mg/Kg	40	130	40
Surrogate					Acceptance Limits	
o-Terphenyl	0	X	%		32 - 179	
Method: Soluble-300.0			Date An	alyzed:	09/06/2007 1145	
Chloride	15		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 1-2 Lab Sample ID: 560-6396-2 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution
Method: 8021B			Date An	alyzed: 09/06	/2007 2015	
Prep Method: 5030B			Date Pro	epared: 09/06	/2007 2015	
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0
Surrogate	7			Acc	eptance Limits	
4-Bromofluorobenzene (Surr)	75		%		51 - 127	
Trifluorotoluene (Surr)	64		%		50 - 129	

Client Sample ID: LOC1 1-2 Lab Sample ID: 560-6396-2 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte-	Result/Qual	ifier	Unit	MDL	RL	Dilution
Method: 8015M			Date An	alyzed: 09/	09/2007 0845	
Prep Method: 5035			Date Pro	epared: 09/	08/2007 1236	
Gasoline Range Organics (GRO)-C6-C10	08.0		mg/Kg	0.033	0.10	1.0
Surrogate				Α	cceptance Limits	
a,a,a-Trifluorotoluene (fid)	100		%		60 - 134	
Method: 8015B			Date An	alyzed: 09/	11/2007 1857	
Prep Method: 3550B			Date Pro	epared: 09/	11/2007 1100	
C10-C28	6700		mg/Kg	40	130	40
Surrogate				Α	cceptance Limits	
o-Terphenyl	0	Χ	%		32 - 179	
Method: Soluble-300.0			Date An	alyzed: 09/	06/2007 1145	
Chloride	65		mg/Kg	1.4	5.0	1.0

Client Sample ID: LOC1 2-3 Lab Sample ID: 560-6396-3 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution
Method: 8021B			Date An	/2007 1227	7 1227	
Prep Method: 5030B	Date Prepared: 09/06/2007 1227				/2007 1227	
Benzene	0.0017	U	mg/Kg	0.0017	0.0044	1.0
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0
Ethylbenzene	0.0046		mg/Kg	0.0019	0.0044	1.0
Xylenes, Total	0.0070	J	mg/Kg	0.0058	0.013	1.0
Surrogate			Acceptance Limits			
4-Bromofluorobenzene (Surr)	65		%	51 - 127		
Trifluorotoluene (Surr)				50 - 129		

Job Number: 560-6396-1

Client Sample ID: LOC1 2-3 Lab Sample ID: 560-6396-3 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qual	ifier	Unit [']	MDL	_ RL	Dilution
Method: 8015M			Date An	alyzed:	09/09/2007 0945	
Prep Method: 5035			Date Pre	epared:	09/08/2007 1236	
Gasoline Range Organics (GRO)-C6-C10	0.37		mg/Kg	0.03	3 0.10	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	97		%		60 - 134	
Method: 8015B			Date An	alyzed:	09/12/2007 0818	
Prep Method: 3550B			Date Pre	epared:	09/11/2007 1100	,
C10-C28	3300		mg/Kg	60	200	60
Surrogate					Acceptance Limits	
o-Terphenyl	0	X	%		32 - 179	
Method: Soluble-300.0			Date An	alyzed:	09/06/2007 1145	
Chloride	80		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 3-4 Lab Sample ID: 560-6396-4 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	nalyzed: 09/06	/2007 1255		
Prep Method: 5030B			Date Pr	epared: 09/06	/2007 1255		
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	108		%		51 - 127		
Trifluorotoluene (Surr)	101		%		50 - 129		

Client Sample ID: LOC1 3-4 Lab Sample ID: 560-6396-4 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	alyzed:	09/10/2007 1458	
Prep Method: 5035			Date Pr	epared:	09/10/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.15		mg/Kg	0.033	0.099	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	99		%		60 - 134	
Method: 8015B			Date Ar	nalyzed:	09/11/2007 1825	
Prep Method: 3550B			Date Pr	epared:	09/11/2007 1100	
C10-C28	230		mg/Kg	20	66	20
Surrogate					Acceptance Limits	
o-Terphenyl	0	Х	%		32 - 179	
Method: Soluble-300.0			Date Ar	alyzed:	09/06/2007 1145	
Chloride	92		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 4-5 Lab Sample ID: 560-6396-5 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	nalyzed: 09/06	6/2007 1323		
Prep Method: 5030B			Date Pro	epared: 09/06	6/2007 1323		
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0018	Ŋ	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0057	U	mg/Kg	0.0057	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	91		%		51 - 127		
Trifluorotoluene (Surr)	94		%		50 - 129		

Job Number: 560-6396-1

Client Sample ID: LOC1 4-5 Lab Sample ID: 560-6396-5

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qualifier		Unit	MDL	. RL	Dilution
Method: 8015M			Date An	alyzed:	09/10/2007 1557	
Prep Method: 5035			Date Pre	epared:	09/10/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.033	U	mg/Kg	0.03	3 0.099	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	100		%		60 - 134	
Method: 8015B			Date An	alyzed:	09/11/2007 1809	
Prep Method: 3550B			Date Pro	epared:	09/11/2007 1100	
C10-C28	300		mg/Kg	20	66	20
Surrogate					Acceptance Limits	
o-Terphenyl	0	X	%		32 - 179	
Method: Soluble-300.0			Date An	alyzed:	09/06/2007 1145	•
Chloride	8.1		mg/Kg	1.4	5.0	1.0

Client Sample ID: LOC1 5-6 Lab Sample ID: 560-6396-6

Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte		Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B				Date An	nalyzed: 09/06	/2007 1402		
Prep Method: 5030B				Date Pr	epared: 09/06	/2007 1402		
Benzene		0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene		0.0018	U	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene		0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	(0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate				Acceptance Limits				
4-Bromofluorobenzene (Surr)		78		%		51 - 127		
Trifluorotoluene (Surr)		87		%		50 - 129		

Client Sample ID: LOC1 5-6 Lab Sample ID: 560-6396-6 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date An	nalyzed: 09/1	0/2007 1657	
Prep Method: 5035			Date Pr	epared: 09/1	0/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.033	U	mg/Kg	0.033	0.10	1.0
Surrogate				Ac	ceptance Limits	3
a,a,a-Trifluorotoluene (fid)	98		%		60 - 134	
Method: 8015B			Date Ar	nalyzed: 09/1	1/2007 1753	
Prep Method: 3550B			Date Pr	epared: 09/1	1/2007 1100	
C10-C28	540 ⁻		mg/Kg	20	66	20
Surrogate				Ac	ceptance Limits	5
o-Terphenyl	0	X	%		32 - 179	
Method: Soluble-300.0			Date Ar	nalyzed: 09/0	6/2007 1145	
Chloride	29		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 6-7 Lab Sample ID: 560-6396-7 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	alyzed: 09/06	6/2007 1430		
Prep Method: 5030B			Date Pro	epared: 09/06	5/2007 1430		
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	67		%		51 - 127		
Trifluorotoluene (Surr)	74	•	%		50 - 129		

Job Number: 560-6396-1

Client Sample ID: LOC1 6-7 Lab Sample ID: 560-6396-7 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qualifi	ier	Unit	MDL	. RL	Dilution
Method: 8015M			Date An	alyzed:	09/10/2007 1756	
Prep Method: 5035			Date Pro	epared:	09/10/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.42		mg/Kg	0.03	3 0.10	1.0
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	101		%		60 - 134	
Method: 8015B			Date An	alyzed:	09/11/2007 1737	
Prep Method: 3550B			Date Pro	epared:	09/11/2007 1100	
C10-C28	3100		mg/Kg	20	66	20
Surrogate					Acceptance Limits	
o-Terphenyl	0	Χ	· %		32 - 179	
Method: Soluble-300.0			Date An	alyzed:	09/06/2007 1145	
Chloride	12		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 7-8 Lab Sample ID: 560-6396-8 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	nalyzed: 09/06	/2007 1458		
Prep Method: 5030B			Date Pr	epared: 09/06	/2007 1458		
Benzene	0.0016	U	mg/Kg	0.0016	0.0044	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0044	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0044	1.0	
Xylenes, Total	0.0058	U	mg/Kg	0.0058	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	43	Χ	%		51 - 127		
Trifluorotoluene (Surr)	46	X	%		50 - 129		

Client Sample ID: LOC1 7-8 Lab Sample ID: 560-6396-8 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qua	alifier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ar	alyzed: 09/	10/2007 1856	
Prep Method: 5035			Date Pr	epared: 09/	10/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.24		mg/Kg	0.032	0.098	1.0
Surrogate				Ad	cceptance Limits	S
a,a,a-Trifluorotoluene (fid)	101		%		60 - 134	
Method: 8015B			Date An	alyzed: 09/	11/2007 1722	
Prep Method: 3550B			Date Pr	epared: 09/	11/2007 1100	
C10-C28	1500		mg/Kg	20	66	20
Surrogate				Ad	cceptance Limit	\$
o-Terphenyl	0	X	% −		32 179	
Method: Soluble-300.0			Date Analyzed: 09/06/2007 1145			
Chloride	8.2		mg/Kg	1.4	5.0	1.0

Job Number: 560-6396-1

Client Sample ID: LOC1 8-9 Lab Sample ID: 560-6396-9 Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte-	Result/Qua	alifier	Unit	MDL	MQL	Dilution	
Method: 8021B			Date An	nalyzed: 09/06	/2007 1700		
Prep Method: 5030B			Date Pro	epared: 09/06	/2007 1700		
Benzene	0.0016	U	mg/Kg	0.0016	0.0043	1.0	
Toluene	0.0018	U	mg/Kg	0.0018	0.0043	1.0	
Ethylbenzene	0.0019	U	mg/Kg	0.0019	0.0043	1.0	
Xylenes, Total	0.0057	U	mg/Kg	0.0057	0.013	1.0	
Surrogate			Acceptance Limits				
4-Bromofluorobenzene (Surr)	71		%		51 - 127		
Trifluorotoluene (Surr)	71		%	,	50 - 129		

Client Sample ID: LOC1 8-9 Lab Sample ID: 560-6396-9 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qualit	fier	Unit	MDL	RL	Dilution
Method: 8015M			Date Ana	alyzed: 0	9/10/2007 1955	
Prep Method: 5035			Date Pre	epared: 0	9/10/2007 0945	
Gasoline Range Organics (GRO)-C6-C10	0.99		mg/Kg	0.032	0.097	1.0
Surrogate	1				Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	99		%		60 - 134	
Method: 8015B			Date An	alyzed: 'C	9/11/2007 1804	
Prep Method: 3550B			Date Pre	epared: 0	9/11/2007 1100	
C10-C28	730		mg/Kg	20	66	20
Surrogate					Acceptance Limits	
o-Terphenyl	0	Χ	%		32 - 179	
Method: Soluble-300.0			Date Ana	alyzed: C	9/06/2007 1145	
Chloride	9.2		mg/Kg	1.4	5.0	1.0

Client Sample ID: LOC1 9-10 Lab Sample ID: 560-6396-10 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qu	alifier	Unit	MÐL	RL	Dilution
Method: 8015M			Date An	,	2/2007 0630	
Prep Method: 5035	400		Date Pre	•	1/2007 1100	50
Gasoline Range Organics (GRO)-C6-C10	130	В	mg/Kg	1.7	5.0	50
Surrogate				Ac	ceptance Limits	
a,a,a-Trifluorotoluene (fid)	109		%		60 - 134	
Method: 8021B			Date An	alyzed: 09/0	6/2007 1656	
Prep Method: 5030B			Date Pro	epared: 09/0	6/2007 0800	
Benzene	0.043	U	mg/Kg	0.043	0.44	1.0
Toluene	0.044	U	mg/Kg	0.044	0.87	1.0
Ethylbenzene	0.042	U	mg/Kg	0.042	0.44	1.0
Xylenes, Total	0.89	J	mg/Kg	0.11	2.6	1.0
Surrogate				Ac	ceptance Limits	
4-Bromofluorobenzene (Surr)	38	X	%		47 - 120	
Trifluorotoluene (Surr)	57		%		35 - 132	
Method: 8015B			Date An	alyzed: 09/1	1/2007 1622	•
Prep Method: 3550B			Date Pro	epared: 09/1	1/2007 1100	
C10-C28	9400		mg/Kg	100	330	100
Surrogate				· Ac	ceptance Limits	
o-Terphenyl	0	X	%		32 - 179	
Method: Soluble-300.0			Date An	alyzed: 09/0	6/2007 1145	
Chloride	21		mg/Kg	1.4	5.0	1.0

Client Sample ID: LOC110-11 Lab Sample ID: 560-6396-11 Job Number: 560-6396-1

Date Sampled: 09/04/2007 0000 Date Received: 09/06/2007 0836

Analyte	Result/Qu	alifier	Unit	MDL	RL	Dilution
Method: 8015M Prep Method: 5035			Date Analyzed: Date Prepared:		09/12/2007 1246 09/11/2007 1100	
Gasoline Range Organics (GRO)-C6-C10	940	В	mg/Kg	16	50	500
Surrogate					Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	122		%		60 - 134	
Method: 8021B Prep Method: 5030B			Date Analyzed: 09/06/2007 1724 Date Prepared: 09/06/2007 0800			
Benzene	0.043	U	mg/Kg	0.043	3 0.44	1.0
Toluene	0.044	U	mg/Kg	0.044	4 0.87	1.0
Ethylbenzene	3.2		mg/Kg	0.042	2 0.44	1.0
Xylenes, Total	31		mg/Kg	0.11	2.6	1.0
Surrogate					Acceptance Limits	
4-Bromofluorobenzene (Surr)	444.	Χ	%		47 - 120	
Trifluorotoluene (Surr)	57		%		35 - 132	
Method: 8015B Prep Method: 3550B			Date An Date Pro	alyzed: epared:	09/11/2007 1838 09/11/2007 1100	
C10-C28	8500		mg/Kg	100	330	100
Surrogate o-Terphenyl	0	X	%		Acceptance Limits 32 - 179	
Method: Soluble-300.0 Chloride	34		Date An mg/Kg	alyzed: 1.4	09/06/2007 1145 5.0	1.0

DATA REPORTING QUALIFIERS

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Lab Section	Qualifier	Description
GC VOA		
	В	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate exceeds the control limits
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
-	X	Surrogate exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Job Number: 560-6396-1

QC Association Summary

ASSOCIATION C	· · · · · · · · · · · · · · · · · · ·	Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:560-1	4929	the second second second	and the second s	THE R. P. LEWIS CO., LANSING STREET, S	
LCS 560-14929/1	Lab Control Spike	T	Solid	8021B	
MB 560-14929/2	Method Blank	T	Solid	8021B	
560-6396-1	LOC1 0-1	Т	Solid	8021B	
560-6396-2	LOC1 1-2	Т	Solid	8021B	,
560-6396-3	LOC1 2-3	T	Solid	8021B	
560-6396-4	LOC1 3-4	T	Solid	8021B	
560-6396-5	LOC1 4-5	T	Solid	8021B	
560-6396-6	LOC1 5-6	T	Solid	8021B	
560-6396-7	LOC1 6-7	Т	Solid	8021B	
560-6396-8	LOC1 7-8	Ť	Solid	8021B	
560-6396-9	LOC1 8-9	Ť	Solid	8021B	
Analysis Batch:560-1	4940				
LCS 560-14941/1-A	Lab Control Spike	Т	Solid	8021B	560-14941
MB 560-14941/2-A	Method Blank	Ť	Solid	8021B	560-14941
560-6396-10	LOC1 9-10	† T	Solid	8021B	560-14941
560-6396-11	LOC110-11	τ̈́	Solid	8021B	560-14941
D D t. b					
Prep Batch: 560-1494		~	.		
LCS 560-14941/1-A	Lab Control Spike	Ţ	Solid	5030B	
MB 560-14941/2-A	Method Blank	Ţ	Solid	5030B	
560-6396-10	LOC1 9-10	Ţ	Solid	5030B	
560-6396-11	LOC110-11	Т	Solid	5030B	
Analysis Batch:400-5					
LCS 400-55035/2-A	Lab Control Spike	Т	Solid	8015M	400-55035
MB 400-55035/1-A	Method Blank	Τ-	Solid	8015M	400-55035
560-6396-1	LOC1 0-1	Т	Solid	8015M	400-55035
560-6396-2	LOC1 1-2	Т	Solid	8015M	400-55035
560-6396-3	LOC1 2-3	Т	Solid	8015M	400-55035
Prep Batch: 400-5503	35				
LCS 400-55035/2-A	Lab Control Spike	Т	Solid	5035	
MB 400-55035/1-A	Method Blank	Ť	Solid	5035	
560-6396-1	LOC1 0-1	Ť	Solid	5035	
560-6396-2	LOC1 1-2	Ť	Solid	5035	
560-6396-3	LOC1 2-3	Ť	Solid	5035	

Job Number: 560-6396-1

QC Association Summary

		Report			
Lab Sample ID	Client Sample ID	Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:400-5	5056			TOO TO THE TOTAL SECTION OF TH	
LCS 400-55058/2-A	Lab Control Spike	T	Solid	8015M	400-55058
MB 400-55058/1-A	Method Blank	Т	Solid	8015M	400-55058
560-6396-4	LOC1 3-4	T	Solid	8015M	400-55058
560-6396-5	LOC1 4-5	Τ	Solid	8015M	400-55058
560-6396-6	LOC1 5-6	T	Solid	8015M	400-55058
560-6396-6MS	Matrix Spike	T	Solid	8015M	400-55058
560-6396 - 6MSD	Matrix Spike Duplicate	T	Solid	8015M	400-55058
560-6396-7	LOC1 6-7	T	Solid	8015M	400-55058
560-6396-8	LOC1 7-8	T	Solid	8015M	400-55058
560-6396 - 9	LOC1 8-9	T	Solid	8015M	400-55058
Prep Batch: 400-5505	58				
LCS 400-55058/2-A	Lab Control Spike	T	Solid	5035	
MB 400-55058/1-A	Method Blank	T	Solid	5035	
560-6396-4	LOC1 3-4	T	Solid	5035	
560-6396-5	LOC1 4-5	T	Solid	5035	
560-6396-6	LOC1 5-6	Т	Solid	5035	
560-6396-6MS	Matrix Spike	T	Solid	5035	
560-6396-6MSD	Matrix Spike Duplicate	Т	Solid	5035	
560-6396-7	LOC1 6-7	Т	Solid	5035	
560-6396-8	LOC1 7-8	T	Solid	5035	
560-6396-9	LOC1 8-9	Т	Solid	5035	
Analysis Batch:400-5	5181				
LCS 400-55182/11-A	Lab Control Spike	Т	Solid.	8015M	400-55182
MB 400-55182/10-A	Method Blank	Ť	Solid	8015M	400-55182
560-6396-10	LOC1 9-10	Ť	Solid	8015M	400-55182
560-6396-11	LOC110-11	Ť	Solid	8015M	400-55182
Prep Batch: 400-5518	19	•			
LCS 400-55182/11-A	Lab Control Spike	т	Solid	5035	
MB 400-55182/10-A	Method Blank	Ť	Solid	5035	
560-6396-10	LOC1 9-10	Ť	Solid	5035	
560-6396-11	EOC110-11	Ť	Solid	5035	

Report Basis

T = Total

Job Number: 560-6396-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA	Cheff Sample ID	Dusis	Cheffic Matrix	Method	Fiep Batch
***************************************	A A MINE THE PROPERTY OF THE P			* ***** * ****	
Prep Batch: 640-36175		-	Calid	arean	
-CS 640-36175/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 640-36175/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 640-36175/1-A	Method Blank	T	Solid	3550B	
560-6396-1	LOC1 0-1	T	Solid	3550B	
560-6396-1MS	Matrix Spike	T	Solid	3550B	
560-6396-1MSD	Matrix Spike Duplicate	Ţ	Solid	3550B	
560-6396-2	LOC1 1-2	T	Solid	3550B	
560-6396-3	LOC1 2-3	Т	Solid	3550B	
560-6396-4	LOC1 3-4	Т	Solid	3550B	
560-6396 - 5	LOC1 4-5	Т	Solid	3550B	
560 - 6396-6	LOC1 5-6	Т	Solid	3550B	
560-6396-7	LOC1 6-7	Т	Solid	3550B	
560-6396-8	LOC1 7-8	Т	Solid:	3550B	
560 - 6396-9	LOC1 8-9	T	Solid	3550B	
560-6396-10	LOC1 9-10	T	Solid	3550B	
560-6396-11	LOC110-11	T	Solid	3550B	
Analysis Batch:640-36	5204				
LCS 640-36175/2-A	Lab Control Spike	Т	Solid	8015B	640-36175
LCSD 640-36175/3-A	Lab Control Spike Duplicate	Ţ	Solid	8015B	640-36175
MB 640-36175/1-A	Method Blank	Т	Solid	8015B	640-36175
560-6396-2	LOC1 1-2	Т	Solid	8015B	640-36175
560-6396-4	LOC1 3-4	Т	Solid	8015B	640-36175
560-6396-5	LOC1 4-5	Ť.	Solid	8015B	640-36175
560-6396-6	LOC1 5-6	Ť	Solid	8015B	640-36175
560-6396-7	LOC1 6-7	Ť	Solid	8015B	640-36175
560-6396-8	LOC1 7-8	Ť	Solid	8015B	640-36175
Analysis Batch:640-36	5205				
560-6396 - 1	LOC1 0-1	Т	Solid	8015B	640-36175
560-6396-1MS	Matrix Spike	, T	Solid	8015B	640-36175
560-6396-1MSD	Matrix Spike Duplicate	Ť	Solid	8015B	640-36175
560-6396 - 9	LOC1 8-9-	Ť	Solid	8015B	640-36175
560-6396-10	LOC1 9-10	Ť	Solid	8015B	640-36175
560-6396-11	LOC110-11	Ť	Solid	8015B	640-36175
Analysis-Batch:640-36	5206				
560-6396-3	LOC1 2-3	Т	Solid-	8015B	640-36175

Report Basis T = Total

Job Number: 560-6396-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry		MARKET TO THE PARTY OF THE PART		-	,
Prep Batch: 560-1492	23	00 0000000000 to 0000000000000000000000	W/// #00/#000000000000000000000000000000	details in the hellessee and the terms	addition what is a Vicense to the contract of
LCS 560-14923/2-A	Lab Control Spike	S	Solid	DI Leach	
MB 560-14923/1-A	Method Blank	S	Solid	DI Leach	
560-6396-1	LOC1 0-1	S	Solid	DI Leach	
560-6396-2	LOC1 1-2	S	Solid	DI Leach	•
560-6396-3	LOC1 2-3	S	Solid	DI Leach	
560-6396-4	LOC1 3-4	S	Solid	DI Leach	
560-6396-5	LOC1 4-5	S	Solid	DI Leach	
560-6396-6	LOC1 5-6	S	Solid	DI Leach	
560-6396-6MS	Matrix Spike	S	Solid	DI Leach	
560-6396-6MSD	Matrix Spike Duplicate	S	Solid	DI Leach	
560-6396 - 7	LOC1 6-7	S	Solid	DI Leach	,
560-6396-8	LOC1 7-8	S	Solid	DI Leach	
560-6396-9	LOC1 8-9	s	Solid	Di Leach	
560-6396-10	LOC1 9-10	S	Solid	DI Leach	
560-6396-11	LOC110-11	S .	Solid	DI Leach	
Analysis Batch:560-1	4925				
LCS 560-14923/2-A	Lab Control Spike	S	Solid-	300.0	
MB 560-14923/1-A	Method Blank	S	Solid	300.0	
560-6396-1	LOC1 0-1	S	Solid ⁻	300.0	
560-6396-2	LOC1 1-2	S	Solid	300.0	
560-6396-3	LOC1 2-3	S	Solid	300.0	
560-6396-4	LOC1 3-4	S	Solid	300.0	
560-6396-5	LOC1 4-5	S	Solid	300.0	
560-6396-6	LOC1 5-6	, S	Solid	300.0	
560-6396-6MS	Matrix Spike	S	Solid	300.0	
560-6396-6MSD	Matrix Spike Duplicate	S	Solid	300.0	
560-6396-7	LOC1 6-7	S	Solid	300.0	
560-6396-8	LOC1 7-8	S	Solid	300.0	
560-6396-9	LOC1:8-9	*\$	Solid	300.0	
560-6396-10	LOC1 9-10	S	Solid	300.0	
560-6396-11	LOC110-11	S	Solid	300.0	

Report Basis S = Soluble

Quality Control Results

Client: Larson & Associates, Inc. Job Number: 560-6396-1

Method Blank - Batch: 400-55035 Method: 8015M Preparation: 5035

Lab Sample ID: MB 400-55035/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/08/2007 1356

Date Prepared: 09/08/2007 1236

Analysis Batch: 400-55027

Prep Batch: 400-55035

Units: mg/Kg

Instrument ID: GC/PID/FID

Lab File ID: B090802.D Initial Weight/Volume: 5 g Final Weight/Volume: 5 g

Injection Volume:

PRIMARY Column ID:

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	0.033	U	0.033	0.10
Surrogate	% Rec		Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	101		60 - 134	

Lab Control Spike - Batch: 400-55035

Lab Sample, ID: LCS 400-55035/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/08/2007 1236

Date-Prepared: 09/08/2007 1236

Analysis Batch: 400-55027

Prep Batch: 400-55035

Units: mg/Kg

Preparation: 5035

Method: 8015M

Instrument ID: GC/PID/FID Lab File ID: B090801.D Initial Weight/Volume: 5 g Final Weight/Volume: 5 g

Injection Volume:

Column ID:

PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Gasoline Range Organics (GRO)-C6-C10	1.00	0.929	93	75 - 124	— ver n.e. nog nogenosco
Surrogate	% Rec		Acceptance Limits		
a,a,a-Trifluorotoluene (fid)	98			60 - 134	

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Method Blank - Batch: 400-55058

Method: 8015M Preparation: 5035

Lab Sample ID: MB 400-55058/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/10/2007 1100

Date Prepared: 09/10/2007 0945

Analysis Batch: 400-55056 Prep Batch: 400-55058

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: B091003.D

Initial Weight/Volume: 5 g Final Weight/Volume: 5 g

Injection Volume:

Column ID:

PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	0.033	U	0.033	0.10
Surrogate	% Rec		Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	101		60 - 134	

Lab Control Spike - Batch: 400-55058

Method: 8015M Preparation: 5035

Lab Sample ID: LCS 400-55058/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/10/2007 0945

Date Prepared: 09/10/2007 0945

Analysis Batch: 400-55056 Prep Batch: 400-55058

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: B091002.D

Initial Weight/Volume: 5 g Final Weight/Volume: 5 g

Injection Volume:

Column ID:

PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Gasoline Range Organics (GRO)-C6-C10	1.00	0.939	94	75 - 124	anne anconomica e estadorna en el estadorna e e e en estadorna e e e en estadorna e e e e e e e e e e e e e e e
Surrogate	% R	ес	Acc	eptance Limits	
a,a,a-Trifluorotoluene (fid)	100)		60 - 134	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 400-55058

Method: 8015M Preparation: 5035

MS Lab Sample ID:

560-6396-6

Analysis Batch: 400-55056

Client Matrix:

Solid

Prep Batch: 400-55058

Instrument ID: GC/PID/FID Lab File ID: B091102.D

Dilution:

1.0

Initial Weight/Volume: 5.00 g

Date Analyzed:

09/11/2007 1047

Final Weight/Volume: 5 g

Date Prepared:

09/10/2007 0945

Injection Volume: Column ID:

PRIMARY

MSD Lab Sample ID: 560-6396-6

Date Prepared:

Solid

Analysis Batch: 400-55056

Instrument ID: GC/PID/FID

Client Matrix;

1.0

Prep Batch: 400-55058

Lab File ID: B091103.D Initial Weight/Volume: 5.04 g

Dilution: Date Analyzed:

09/11/2007 1146

09/10/2007 0945

Final Weight/Volume: 5 g

Injection Volume: Column ID:

PRIMARY

% Rec.

MS MSD Limit **RPD RPD** Limit Analyte MS Qual MSD Qual

Gasoline Range Organics (GRO)-C6-C10 35 - 167 21 61 70 12

Surrogate MS % Rec MSD % Rec Acceptance Limits a,a,a-Trifluorotoluene (fid) 100 100 60 - 134

Client: Larson & Associates, Inc. Job Number: 560-6396-1

Method Blank - Batch: 400-55182 Method: 8015M Preparation: 5035

Lab Sample ID: MB 400-55182/10-A

Client Matrix: Solid Dilution: 50

Date Analyzed: 09/12/2007 1053

Date Prepared: 09/11/2007 1100

Prep Batch: 400-55182

Analysis Batch: 400-55181

Units: mg/Kg

Instrument ID: GC/PID/FID

Lab File ID: E091202.D Initial Weight/Volume: 5 g

Final Weight/Volume: 5 g

Injection Volume:

Column ID: **PRIMARY**

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	4.8	J	1.7	5.0
Surrogate	% Rec		Acceptance Limits	
a,a,a-Trifluorotoluene (fid)	108		60 - 134	

Lab Control Spike - Batch: 400-55182

Preparation: 5035

Lab Sample ID: LCS 400-55182/11-A

Client Matrix: Solid Dilution: 50

Date Analyzed: 09/12/2007 1923

Date Prepared: 09/11/2007 1100

Analysis Batch: 400-55181 Prep Batch: 400-55182

Units: mg/Kg

Instrument ID: GC/PID/FID Lab File ID: E091211.D

Initial Weight/Volume: 5 g Final Weight/Volume: .5. g.

Injection Volume:

Method: 8015M

Column ID: **PRIMARY**

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Gasoline Range Organics (GRO)-C6-C10	10.0	11.7	117	75 - 124	energianista en la constitución de
Surrogate	% Re	ec	Acc	eptance Limits	
a,a,a-Trifluorotoluene (fid)	109			60 - 134	5/2

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Method Blank - Batch: 560-14929

Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-14929/2

Client Matrix: Solid 1.0 Dilution:

Date Analyzed: 09/06/2007 0945 Date Prepared: 09/06/2007 0945 Analysis Batch: 560-14929

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09060703.D Initial Weight/Volume: 5 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: **PRIMARY**

Analyte	Result	Qual	MDL	MQL
Benzene	0.0019	U	0.0019	0.0050
Toluene	0.0021	U	0.0021	0.0050
Ethylbenzene	0.0022	U	0.0022	0.0050
Xylenes, Total	0.0067	U	.0.0067	0.015
Surrogate	% Rec		Acceptance Limits	
4-Bromofluorobenzene (Surr)	113		51 - 127	
Trifluorotoluene (Surr)	100		50 - 129	

Lab Control Spike - Batch: 560-14929

Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-14929/1

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 0917

Date Prepared: 09/06/2007 0917

Analysis Batch: 560-14929

Prep Batch: N/A Units: mg/Kg

Instrument ID: HP GC [Method 8021] Lab File ID: 09060702.D

Initial Weight/Volume: 5 g Final Weight/Volume: 5 mL

Injection Volume:

Column ID: **PRIMARY**

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	0.0200-	0.0194	97		
Toluene	0.0200	0.0188	94	71 - 124	
Ethylbenzene	0.0200	0:0185	92	73 - 122	
Xylenes, Total	0.0400	0.0382	95	73 - 133	
Surrogate	% R	ec	Acc	ceptance Limits	
4-Bromofluorobenzene (Surr)	11:	5		51 - 127	
Trifluorotoluene (Surr)	100)		50 - 129	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Job Number: 560-6396-1 Client: Larson & Associates, Inc.

Method Blank - Batch: 560-14941

Method: 8021B Preparation: 5030B

Lab Sample ID: MB 560-14941/2-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1559 Date Prepared: 09/06/2007 0800 Analysis Batch: 560-14940 Prep Batch: 560-14941

Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09060703.D Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: **PRIMARY**

Analyte	Result	Qual	MDL	RL
Benzene	0.0049	U	0.0049	0.050
Toluene	0.0050	U	0.0050	0.10
Ethylbenzene	0.0048	U	0.0048	0.050
Xylenes, Total	0.012	U	0.012	0.30
Surrogate	. % Rec		Acceptance Limits	
4-Bromofluorobenzene (Surr)	80		47 - 120	
Trifluorotoluene (Surr)	66		35 - 132	

Lab Control Spike - Batch: 560-14941

Method: 8021B Preparation: 5030B

Lab Sample ID: LCS 560-14941/1-A

Client Matrix: Solid Dilution: 1.0

Date Analyzed: 09/06/2007 1530

Date Prepared: 09/06/2007 0800

Analysis Batch: 560-14940

Prep Batch: 560-14941

Units: mg/Kg

Instrument ID: HP GC [Method 8021]

Lab File ID: 09060702.D Initial Weight/Volume: 5 g Final Weight/Volume: 10 mL

Injection Volume:

Column ID: **PRIMARY**

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	1.00	1.02	102	.54 - 141	- 0 m x Last Art passesser entre and entre en
Toluene	1.00	1.14	114	74 - 131	
Ethylbenzene	1.00	1.10	110-	75 - 132	
Xylenes, Total	2.00	2.42	121	79 - 145	
Surrogate	% R	ec	Acc	ceptance Limits	
4-Bromofluorobenzene (Surr):	88			47 - 120	
Trifluorotoluene (Surr)	78			35 - 132	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Method Blank - Batch: 640-36175

Method: 8015B Preparation: 3550B

Lab Sample ID: MB 640-36175/1-A

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 09/11/2007 1616 Date Prepared: 09/11/2007 1100 Analysis Batch: 640-36204 Prep Batch: 640-36175

Units: mg/Kg

Instrument ID: SGJ Varian 3400

Lab File ID: 1111J21.d Initial Weight/Volume: 29.99 g Final Weight/Volume: 1.0 mL Injection Volume: 2 uL -

Column ID:

PRIMARY

Analyte	Result	Qual	MDL	RL
C10-C28	1.0	U	1.0	3.3
Surrogate	-% Rec		Acceptance Limits	
o-Terphenyl	56		32 - 179	

Lab Control Spike/

Lab Control Spike Duplicate Recovery Report - Batch: 640-36175

Method: 8015B Preparation: 3550B

LCS Lab Sample ID: LCS 640-36175/2-A-

Client Matrix: Dilution:

Solid 1.0

Date Analyzed:

09/11/2007 1624

Date Prepared:

09/11/2007 1100

Analysis Batch: 640-36204 Prep Batch: 640-36175

Units: mg/Kg

Instrument ID: SGJ Varian 3400 Lab File ID: 1111J22.d

Initial Weight/Volume: 30.04 g Final Weight/Volume: 1.0 mL Injection Volume: 2 uL.

Column ID:

PRIMARY

LCSD Lab Sample ID: LCSD 640-36175/3-A

Client Matrix:

Solid Dilution:

Date Analyzed:

1.0

Date Prepared:

09/11/2007 1632 09/11/2007 1100 Analysis Batch: 640-36204 Prep Batch: 640-36175

Units: mg/Kg

9/ Dag

Instrument ID: SGJ Varian 3400

Lab File ID: 1!11J23.d Initial Weight/Volume: 30.06 g

Final Weight/Volume: 1.0 mL Injection Volume: 2 uL

Column ID:

PRIMARY

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C28	88	86	40 - 140_	3	40		
Surrogate	_	.CS % Rec	LCSD %	Rec	Accep	tance Limits	
o-Terphenyl	1	43	142		3	2 - 179	

Client: Larson & Associates, Inc.

Job Number: 560-6396-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 640-36175 Method: 8015B Preparation: 3550B

MS Lab Sample ID:

560-6396-1

Client Matrix: Dilution:

Date Analyzed:

Date Prepared:

Solid 40

09/11/2007 1855 09/11/2007 1100

09/11/2007 1912

09/11/2007 1100

Analysis Batch: 640-36205 Prep Batch: 640-36175

Instrument ID: SGH HP 5890 Lab File ID: 1111H27.d Initial Weight/Volume: 30.03 g

Final Weight/Volume: 1.0 mL Injection Volume: 2 uL **PRIMARY**

Column ID:

MSD Lab Sample ID: 560-6396-1 Client Matrix:

Date Analyzed: Date Prepared:

Dilution:

Solid 40

Analysis Batch: 640-36205 Prep Batch: 640-36175

Instrument ID: SGH HP 5890 Lab File ID: 1I11H29.d Initial Weight/Volume: 30.01 g Final Weight/Volume: 1.0 mL Injection Volume: 2 uL

Column ID:

PRIMARY

	<u>%</u>	Rec.					
Analyte	MS MSD		Limit	RPD	RPD Limit	MS Qual	MSD Qual
40.00.00 cm - 10.00.00.00.00.00.00.00.00.00.00.00.00.0	-1150 -239 4		40 - 140	13	40	4	4
Surrogate	· /www.	MS⁻% Rec	MSD %	Rec	Acce	ptance Limi	ts
o-Terphenyl		0	X 0	.X	32	2 - 179	

Instrument ID: No Equipment Assigned

N/A

Lab File ID:

Job Number: 560-6396-1 Client: Larson & Associates, Inc.

Method Blank - Batch: 560-14925 Method: 300.0 Preparation: N/A

Analysis Batch: 560-14925 Lab Sample ID: MB 560-14923/1-A Client Matrix: Prep Batch: N/A Solid

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 mL

Date Analyzed: 09/06/2007 1145 Final Weight/Volume: 5 mL

Leachate Batch: 560-14923 Date Leached: 09/06/2007 1145

Date Prepared: N/A

RL MDL Analyte Result Qual 0.14 Ū 0.14 0.50 Chloride-S

Method: 300.0 Lab Control Spike - Batch: 560-14925 Preparation: N/A

Analysis Batch: 560-14925 Instrument ID: No Equipment Assigned Lab Sample ID: LCS 560-14923/2-A Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: mg/Kg Initial Weight/Volume: 5 mL

Date Analyzed: 09/06/2007 1145 Final Weight/Volume: 5 mL Date Prepared: N/A

Date Leached: 09/06/2007 1145 Leachate Batch: 560-14923

Analyte Spike Amount Result % Rec. Limit Qual 92 Chloride-S 10.0 9.22 70 - 130

Matrix Spike/ Method: 300.0

Matrix Spike Duplicate Recovery Report - Batch: 560-14925 Preparation: N/A

MS Lab Sample ID: 560-6396-6 Analysis Batch: 560-14925 Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 5 mL

Date Analyzed: 09/06/2007 1145 Final Weight/Volume: 5 mL

Date Prepared: N/A Date Leached: 09/06/2007 1145 Leachate Batch: 560-14923

MSD Lab Sample ID: 560-6396-6 Analysis-Batch: 560-14925 Instrument ID: No Equipment Assigned

Client Matrix: Solid Prep Batch: N/A Lab File ID: N/A Dilution: 1.0 Initial Weight/Volume: 5 mL

09/06/2007 1145 Date Analyzed: Final Weight/Volume: 5 mL

Date Prepared: N/A

Date Leached: 09/06/2007 1145 Leachate Batch: 560-14923

% Rec. Analyte MS MSD **RPD** Limit RPD Limit MS Qual MSD Qual Chloride-S 95 96 70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.



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№ 29384 6396 CHAIN-OF-CUSTODY

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LOGIN SAMPLE RECEIPT CHECK LIST

Client: Larson & Associates, Inc. Job Number: 560-6396-1

Login Number: 6396

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8C IR-1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples_are_not present.	True	
Samples do not require splitting or compositing.	True	



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№ 29384 639, CHAIN-OF-CUSTODY

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CHAIN-OF-CUSTODY

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Analytical Report 290491

for

Larson & Associates

Project Manager: Michelle Green

Friscoe State 'A'
7-0111

02-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



02-OCT-07

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 290491

Friscoe State 'A'
Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290491. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290491 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 290491

Larson & Associates, Midland, TX

Friscoe State 'A'

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North (40')	S	Sep-28-07 13:00		290491-001
North (35')	S	Sep-28-07 13:06		290491-002
North West (35')	S	Sep-28-07 13:11		290491-003
North East (35')	S	Sep-28-07 13:15		290491-004
South West (32')	S	Sep-28-07 13:18		290491-005
South East (32')	S	Sep-28-07 13:21		290491-006
South Wall	S	Sep-28-07 13:26		290491-007
East Wall	S	Sep-28-07 13:30		290491-008
North Wall	S	Sep-28-07 13:37		290491-009
West Wall	S	Sep-28-07 13:43		290491-010



Certificate of Analysis Summary 290491

Larson & Associates, Midland, TX

Project Id: 7-0111

Contact: Michelle Green

Project Name: Friscoe State 'A'

Date Received in Lab: Fri Sep-28-07 04:50 pm

Report Date: 02-OCT-07

Project Location:

								Project Mai	nager:	Brent Barron,	11		
	Lab Id:	290491-0	001	290491-0	002	290491-0	003	290491-0	04	290491-0	05	290491-0	06
Analysis Degreeted	Field Id:	North (4	0')	North (3:	5')	North West	(35')	North East	(35')	South West	(32')	South East ((32')
Analysis Requested	Depth:												
•	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-28-07	13:00	Sep-28-07 1	13.06	Sep-28-07	13.11	Sep-28-07 1	13.15	Sep-28-07 1	13:18	Sep-28-07 1	3 21
BTEX by EPA 8021B	Extracted:	Oct-02-07	13:20										
	Analyzed:	Oct-02-07	14 51										
	Units/RL:	mg/kg	RL								j		
Benzene		ND	0 0011										
Toluene		0.0078	0 0011										
Ethylbenzene		0.0655	0 0011										
m,p-Xylene		0.3878	0 0021										
o-Xylene		0.1120	0 0011										
Total Xylenes		0 4998											
Total BTEX		0.5731											
Percent Moisture	Extracted:												
	Analyzed:	Sep-29-07	09:30	Sep-29-07 (09:30	Sep-29-07 (09:30	Sep-29-07 (9.30	Sep-29-07 (9.30	Sep-29-07 0	9 30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.58	1 00	9.34	1 00	9.21	1.00	9.94	1.00	14.6	1 00	15 1	1.00
TPH by SW8015 Mod	Extracted:	Sep-30-07	17:03	Sep-30-07 1	17:03	Sep-30-07	17 03	Sep-30-07	17:03	Sep-30-07	17:03	Sep-30-07 1	7.03
	Analyzed:	Sep-30-07	19:09	Sep-30-07 1	19.34	Sep-30-07 1	19:59	Sep-30-07 2	20 24	Sep-30-07 2	20.49	Sep-30-07 2	1 13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		505	106	104	11.0	ND	110	ND	111	ND	11.7	ND	118
C12-C28 Diesel Range Hydrocarbons		1580	10.6	496	110	198	110	ND	111	24 7	117	ND	118
Total TPH		2085		600		198		ND		24 7		ND	
Total Chloride by EPA 325.3	Extracted:												
	Analyzed:	Sep-29-07	10:40	Sep-29-07 1	10:40	Sep-29-07 1	10.40	Sep-29-07	10 40	Sep-29-07 1	10 40	Sep-29-07 1	0 40
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chlonde		45 0	5 30	70 4	5 52	70 3	5 51	82 6	5 55	49 8	5 85	188	5 89

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 290491

Larson & Associates, Midland, TX

Project Id: 7-0111

Contact: Michelle Green

Project Name: Friscoe State 'A'

Project Location:

Date Received in Lab: Fri Sep-28-07 04:50 pm

Report Date: 02-OCT-07

Project Manager: Brent Barron, II

	-,							r roject Mai	nager.	Brent Barron, II	
,	Lab Id:	290491-0	007	290491-0	800	290491-0	009	290491-0	10		
Analysis Requested	Field Id:	South W	all	East Wa	ıll	North W	ali	West Wa	all		
Analysis Requested	Depth:			-							
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Sep-28-07	13:26	Sep-28-07	13·30	Sep-28-07	13.37	Sep-28-07	13 43		
Percent Moisture	Extracted:										
	Analyzed:	Sep-29-07	09:30	Sep-29-07	09:30	Sep-29-07 (09:30	Sep-29-07 (99.30	1	}
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		9,92	1 00	7,35	1.00	4 98	1.00	. 8 52	1.00		
TPH by SW8015 Mod	Extracted:	Sep-30-07	17:03	Sep-30-07	17.03	Sep-30-07	17:03	Sep-30-07 1	17:03		
	Analyzed:	Sep-30-07	21:38	Sep-30-07	22:03	Sep-30-07	22:28	Sep-30-07 2	22.53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	ĺ	
C6-C12 Gasoline Range Hydrocarbons		37.3	11.1	ND	10 8	43 0	10 5	36 0	10 9		
C12-C28 Diesel Range Hydrocarbons		146	11 1	120	10 8	1820	10.5	161	10.9		
Total TPH		183 3		120		1863		197			
Total Chloride by EPA 325.3	Extracted:										
	Analyzed:	Sep-29-07	10:40	Sep-29-07	10:40	Sep-29-07	10:40	Sep-29-07 1	10.40		
`	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		35.4	5 55	91 9	5.40	44.7	5.26	69.7	5 47		

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involved for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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Project Name: Friscoe State 'A'

Work Order #: 290491

Lab Batch #: 705514

Project ID: 7-0111

Sample: 290491-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			[D]		L
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0243	0.0300	81	80-120	

Lab Batch #: 705514

Sample: 499989-1-BKS/BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0273	0.0300	91	80-120	

Lab Batch #: 705514

Sample: 499989-1-BLK/BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	·

Lab Batch #: 705514

Sample: 499989-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]	l L	
1,4-Diffuorobenzene	0.1445	0.1500	96	80-120	
4-Bromofluorobenzene	0.1397	0.1500	93	80-120	

Lab Batch #: 705323

Sample: 290491-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	,
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	45.4	50.0	91	70-135	
1-Chlorooctane	46.7	50.0	93	70-135	

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Project Name: Friscoe State 'A'

Work Order #: 290491

Sample: 290491-002 / SMP

Project ID: 7-0111

Lab Batch #: 705323

Batch: 1

Matrix: Soil

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	39.1	50.0	78	70-135	
1-Chlorooctane	39.4	50.0	79	70-135	

Lab Batch #: 705323

Sample: 290491-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	35.9	50.0	72	70-135	
1-Chlorooctane	37.3	50.0	75	70-135	

Lab Batch #: 705323

Sample: 290491-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	38.9	50.0	78	70-135	 	
1-Chlorooctane	40.8	50.0	82	70-135		

Lab Batch #: 705323

Sample: 290491-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctadecane	39.5	50.0	79	70-135		
1-Chlorooctane	41.3	50.0	83	70-135	· · ·	

Lab Batch #: 705323

Sample: 290491-006 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Analytes 1-Chlorooctadecane	37.4	50.0	75	70-135			
1-Chlorooctane	39.4	50.0	79	70-135			

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Project Name: Friscoe State 'A'

Work Order #: 290491

Project ID: 7-0111

Lab Batch #: 705323

Sample: 290491-007 / SMP

1 Matrix: Soil Batch:

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes 1-Chlorooctadecane	37.7	50.0		70-135		
1-Chlorooctane	38.9	50.0	75	70-133		

Lab Batch #: 705323

Sample: 290491-008 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	37.1	50.0	74	70-135		
1-Chlorooctane	38.2	50.0	76	70-135		

Lab Batch #: 705323

Sample: 290491-009 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	38.8	50.0	78	70-135	
1-Chlorooctane	40.2	50.0	80	70-135	

Lab Batch #: 705323

Sample: 290491-010 / SMP

1 Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	45.6	50.0	91	70-135		
1-Chlorooctane	45.9	50.0	92	70-135		

Lab Batch #: 705323

Sample: 290491-010 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	37.5	50.0	75	70-135		
1-Chlorooctane	45.4	50.0	91	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Project Name: Friscoe State 'A'

Work Order #: 290491

Project ID: 7-0111

Lab Batch #: 705323

Sample: 290491-010 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	41.3	50.0	83	70-135		
1-Chlorooctane	46.9	50:0	94	70-135		

Lab Batch #: 705323

Sample: 499885-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	S	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctadecane	35.2	50.0	70	70-135			
1-Chlorooctane	43.7	50.0	87	70-135			

Lab Batch #: 705323

Sample: 499885-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctadecane	34.9	50.0	70	70-135		
1-Chlorooctane	36.8	50.0	74	70-135		

Lab Batch #: 705323

Sample: 499885-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes			<u> </u>		<u> </u>
1-Chlorooctadecane	35.5	50.0	71	70-135	
1-Chlorooctane	43.8	50.0	88	70-135	

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery

Project Name: Friscoe State 'A'

Work Order #: 290491

Project ID:

7-0111

Lab Batch #: 705303

Sample: 705303-1-BKS

Matrix: Solid

Date Analyzed: 09/29/2007

Date Prepared: 09/29/2007

Analyst: IRO

Reporting Units: mg/kg

-		
Batch #:	1	BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	[]		[C]	[D]		
Chloride	ND	100	95.7	96	75-125	



BS / BSD Recoveries

Project Name: Friscoe State 'A'

Work Order #: 290491

Analyst: SHE

Project ID: 7-0111

Date Prepared: 10/02/2007

Date Analyzed: 10/02/2007

Lab Batch ID: 705514

Sample: 499989-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANI	K/BLANK	SPIKE / E	BLANK S	PIKE DUPI	LICATE 1	RECOVI	ERY STUD	Y	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.1000	0.1014	101	0.5	0.5151	103	134	70-130	35	
Toluene	ND	0 1000	0.0999	100	0.5	0.5076	102	134	70-130	35	
Ethylbenzene	ND	0 1000	0.0997	100	0.5	0.5068	101	134	71-129	35	
m,p-Xylene	ND	0.2000	0.1993	100	1	1 014	101	134	70-135	35	
o-Xylene	ND	0.1000	0.0970	97	0.5	0.4945	99	134	71-133	35	

Analyst: SHE

Date Prepared: 09/30/2007

Date Analyzed: 09/30/2007

Lab Batch ID: 705323

Sample: 499885-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	l	[D]	[~]	[5]	[E]	Kesan [F]	[9]				
C6-C12 Gasoline Range Hydrocarbons	ND	500	543	109	500	537	107	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	500	479	96	500	475	95	1	70-135	35	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Friscoe State 'A'

Work Order #: 290491

Project ID: 7-0111

Lab Batch ID: 705323

QC- Sample ID: 290491-010 S

Batch #:

Matrix: Soil

Date Analyzed: 10/01/2007

Date Prepared: 09/30/2007

Analyst: SHE

Reporting United marka

Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	- %	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	36 0	547	628	108	547	611	105	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	161	547	655	90	547	621	84	7	70-135	35	

Lab Batch ID: 705303

QC- Sample ID: 290491-001 S

Batch #:

Matrix: Soil

Date Analyzed: 09/29/2007

Date Prepared: 09/29/2007

Analyst: IRO

Reporting Units: mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	450.	530	541	94	530	563	98	4	75-125	30	



Sample Duplicate Recovery

Project Name: Friscoe State 'A'

Work Order #: 290491

Lab Batch #: 705301

Project ID: 7-0111

Date Analyzed: 09/29/2007

Date Prepared: 09/29/2007

Analyst: SHE

QC- Sample ID: 290491-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

					·
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]	1		
Percent Moisture	5.58	4.83	14	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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CLIENT:	YTICA KNOZ V	Phon	Double Cre e (512) 388 ale								9	/20	3/0	Z			CI	ΗA	IN-		CUSTO	_
ADDRESS PHONE. <u>43</u> 7-66 DATA REPORTED TO ADDITIONAL REPOR		chette	132-687 Green	1-04 V	5¢			 	PO# PROJ	ECT	LOCA	ATION	OR:	NAM	E:/	HL WO	coe	24	ite	AI RB		
Authorize 5% surcharge for FRHP report? Yes No I reld Sample I D	W-WATER	P=PAINT SL=SLUDGE OT_OTHER Time Matrix	Container Type	ntainers	ESER CON I	-1 I	e	AND TO													2904 FIELD NOTE	
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OTHER 7

7 DHL DISPOSAL @ \$5.00 each

7 Return

CUSTODY SEALS - 7 BROKEN 7 INTACT 7 NOT USED 1 CARRIER BILL # 7 APC DELIVERY 7 HAND DELIVERED

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client	Larson & Assoc
Date/ Time	92807 4.50
Lab ID#	290491
Initials	<u> a</u> L
	Sample Receipt Checklist

				Client Initia
#1	Temperature of container/ cooler?	(ES)	No	60 °C
#2	Shipping container in good condition?	(Yes)	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Mot Present
#5	Chain of Custody present?	Yes	_No	
#6	Sample instructions complete of Chain of Custody?	Yés)	_No	
#7	Chain of Custody signed when relinquished/ received?	(es)	No	
#8	Chain of Custody agrees with sample label(s)?	(Nes)	No	ID written on Cont / Lid
#9	Container label(s) legible and intact?	(eş)	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	(es)	No	
#12	Samples in proper container/ bottle?	Yes)	No	See Below
#13	Samples properly preserved?	YES	No	See Below
#14	Sample bottles intact?	Yes)	No	
#15	Preservations documented on Chain of Custody?	(es)	No	
#16	Containers documented on Chain of Custody?	Yes	_No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	∠Yes5	No	Not Applicable

Variance Documentation

Contact		Contacted by:	Date/ Time:
Regarding:			
Corrective Action Taken	1:	W	
Check all that Apply:		See attached e-mail/ fax Client understands and would like to proceed with anal Cooling process had begun shortly after sampling ever	



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 Nº 34358

CHAIN-OF-CUSTODY

CLIENT: LA NON + HSSO Ciales ADDRESS:													9				7									PAGE	<u> </u>	OF					
PHONE: 432-68 DATA REPORTED TO:	1-09	0\ 4.0		AX 4	132-68	7-0	<u> </u>	6			_		PO#:DHL WORK ORDER #:PROJECT LOCATION OR NAME: Friscoe State (A)																				
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Authorize 5% surcharge for TRRP report?	S=SO W=W/ A=AIF	ATER S	P=PAINT SL=SLUI DT=OTH	DGE			PRE	<u> </u>	1	ON							100						/3/3/					CINICI		STATE STATE			7
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Checklist Yes Yes Yes Yes Yes Yes Yes Y	No No No No No No No No	Client Initials CO ° C Not Present Not Present ID written on Cont./ Lid Not Applicable
Yes	No No No No No No No No	Not Present Not Present Not Present ID written on Cont./ Lid
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Yes)		See Below
Yes	No	Not Applicable
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d like to proc	ceed with	n analysis
	Yes Yes Yes Yes Hentation	Yes No



REQUEST FOR ADDITIONS / CORRECTIONS FORM

•		
11381 Meadowglen, Suite L, Houston, TX 77092 (281) 589-0692	This form is a sup	oplement to
9701 Harry Hines Blvd., Dallas, TX (972) 481-9999		
 5332 Blackberry Drive, San Antonio, TX 78238 (210) 509-3334	COC No:	290491
5757 N.W. 158th St., Miami Lakes, FL 33014 (305) 823-8555		
 2618 South Falkenburg Rd., Riverview, FL 33569 (813) 620-2000	Page <u>1</u>	of1_
 12600 Mest I 20 East Odessa, Tayas 79765 (432-563-1899)	-	

This information sh	ould be taken from th	ne original COC.					Req	ueste	d By:	Mic	hell	e G	reen		D/T:	0/1/2007 13:00:00
Contractor:				Phone:		X Addition										TAT
		Larson		L	432-687-0901	Correction									1	X 24 HOURS
-			Midland	i, TX			1			Ì					ļ	
Project Name:		Friscoe State A		Project Mai	nager: Michelle Green	Hold	BTEX 8021								Ì	48 HOURS
Project Location						Cancellation	3TEX	pires:	pires:		pires:		pires:		pires:	3 DAYS
Project No.:				Project Dire	ector:	No Addition		Hold Time Expires:	Hold Time Expires:		ime Ex		ime Ex		me Ex	5 DAYS
Lab ID	Field ID	Date/Time	Depth	Matrix	Sample Descr	ption	-	Hold T	Hold T		Hold Time Expires:		Hold Time Expires:		Hold Time Expires:	7-days Remarks
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Comments:																
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Samples Rece	eived in Lab by:	Aı	ndrea La	m	S = Solid P = Product L = Liquid SI = Sludge	Add Received B Add Assigned B		Bı	ent Ba	arron		D/T: D/T:		•	10/1/	2007 13:00:00 PM
Date/Time:	9/28/20	007 16:50			£ = Liquid SI = Sludge A = Air O =	Add Processed						D/T:				



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 Nº 34358

CHAIN-OF-CUSTODY

	DDRESS:									-	DATE: 9/28/07 PAGE OF																							
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ADDITIONAL REPORT							***																:											
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Analytical Report 290550

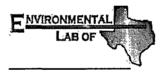
for

Larson & Associates

Project Manager: Michelle Green

Friscoe St. A 7-0111

02-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





02-OCT-07

Project Manager: Michelle Green Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 290550

Friscoe St. A Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290550. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290550 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 290550



Larson & Associates, Midland, TX

Friscoe St. A

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
N. 45'	S	Oct-01-07 12:30		290550-001
N. 50'	S	Oct-01-07 12:47		290550-002



Project Location:

Certificate of Analysis Summary 290550

Larson & Associates, Midland, TX

Project Name: Friscoe St. A



Project Id: 7-0111

Contact: Michelle Green

Date Received in Lab: Mon Oct-01-07 03 30 pm

Report Date: 02-OCT-07

Toject Location.						Project Manager: Brent Barron, II
	Lab Id:	290550-0	01	290550-0	002	
Analysis Passastad	Field Id:	N. 45'		N 50'		
Analysis Requested	Depth:					
	Matrix:	SOIL		SOIL		
	Sampled:	Oct-01-07 1	2.30	Oct-01-07 1	12:47	
Percent Moisture	Extracted:			,		
	Analyzed:	Oct-01-07	6 20	Oct-01-07 1	16 20	
	Units/RL:	%	RL	%	RL	
Percent Moisture		4 76	1 00	3.67	1 00	
TPH by SW8015 Mod	Extracted:	Oct-01-07	6 05	Oct-01-07 1	16.05	
	Analyzed:	Oct-01-07	22 58	Oct-01-07 2	23 23	
	Units/RL:	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		635	10.5	328	10.4	
C12-C28 Diesel Range Hydrocarbons		2010	10.5	1200	10.4	
C28-C35 Oil Range Hydrocarbons		166	10 5	92.3	104	
Total TPH		2811		. 1620.3		
Total Chloride by EPA 325.3	Extracted:					
2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analyzed:	Oct-02-07	1.15	Oct-02-07 1	11:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	
Chloride		67.0	5 25	55.2	5 19	

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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11381 Meadowglen Lane Suite L Houston, Tx 77082-2647	(281) 589-0692	(281) 589-0695
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



Project Name: Friscoe St. A



Work Order #: 290550

Project ID: 7-0111

Lab Batch #: 705480

Sample: 290550-001 / SMP

Batch:

1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctadecane	47.5	50.0	95	70-135					
1-Chlorooctane	48.0	50.0	96	70-135					

Lab Batch #: 705480

Sample: 290550-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctadecane	47.0	50.0	94	70-135					
1-Chlorooctane	47.6	50.0	95	70-135					

Lab Batch #: 705480

Sample: 290553-002 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]	, , , , ,					
1-Chlorooctadecane	42.4	50.0	85	70-135					
1-Chlorooctane	52.6	50.0	105	70-135					

Lab Batch #: 705480

Sample: 290553-002 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY									
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
Analytes			[10]							
1-Chlorooctadecane	42.9	50.0	86	70-135						
1-Chlorooctane	52.7	50.0	105	70-135						

Lab Batch #: 705480

Sample: 499963-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY									
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctadecane	40.6	50.0	81	70-135						
1-Chlorooctane	51.4	50.0	103	70-135						

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Project Name: Friscoe St. A



Work Order #: 290550

Project ID: 7-0111

Lab Batch #: 705480

Sample: 499963-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctadecane	42.3	50.0	85	70-135	-				
1-Chlorooctane	43.2	50.0	86	70-135					

Lab Batch #: 705480

Sample: 499963-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY									
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]							
1-Chlorooctadecane	39.9	50.0	80	70-135						
1-Chlorooctane	50.6	50.0	101	70-135						

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Blank Spike Recovery



Project Name: Friscoe St. A

Work Order #: 290550

Project ID:

7-0111

Lab Batch #: 705499

Sample: 705499-1-BKS

Matrix: Solid

Date Analyzed: 10/02/2007

Date Prepared: 10/02/2007

Analyst: IRO

Reporting Units: mg/kg Ba

1 BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags
Analytes	[A]	[B]	Result [C]	%R [D]	%R	2 200 80
Chloride	ND	100	97.8	98	75-125	



BS/BSD Recoveries



Project Name: Friscoe St. A

Work Order #: 290550

Analyst: SHE Date Prepared: 10/01/2007

Project ID: 7-0111
Date Analyzed: 10/01/2007

· Lab Batch ID: 705480

Sample: 499963-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
TPH by SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk, Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
									L		
C6-C12 Gasoline Range Hydrocarbons	ND	500	486	97	500	465	93	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	500	502	100	500	485	97	3	70-135	35	

Relative Percent Difference RPD = 200*[(D-F)/(D+F)]
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Friscoe St. A

Work Order #: 290550

Project ID: 7-0111

Lab Batch ID: 705480

QC- Sample ID: 290553-002 S

Batch #:

Matrix: Soil

Date Analyzed: 10/02/2007

Date Prepared: 10/01/2007

Analyst: SHE

Repo

porting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	ı	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Fla	
Analytes	Result [A]	Added	[C]	%R	Added	Result [F]	%R	%	%R	%RPD		

TPH by SW8015 Mod	Sample Result	Spike	Result	Sample		Spiked Sample	Dup.	RPD	Limits	Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	70KPD	
C6-C12 Gasoline Range Hydrocarbons	ND	553	554	100	553	551	100	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	553	558	101	553	552	100	1	70-135	35	

Lab Batch ID: 705499

QC- Sample ID: 290516-001 S

Batch #:

Matrix: Soil

Date Analyzed: 10/02/2007

Date Prepared: 10/02/2007

Analyst: IRO

utima Timita

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	164	550	691	96	550	702	98	2	75-125	30	



Sample Duplicate Recovery



Project Name: Friscoe St. A

Work Order #: 290550

Lab Batch #: 705430

Project ID: 7-0111

Date Analyzed: 10/01/2007

10/01/2007 Date Prepared:

Analyst: RBA

QC- Sample ID: 290516-001 D

Batch #:

Matrix: Soil

SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
	[D]			
9.16	8.42	8	20	
	Parent Sample Result [A]	Parent Sample Result [A] Sample Duplicate Result [B]	Parent Sample Result [A] Sample Duplicate Result [B]	Result Duplicate RPD Limits [A] Result %RPD [B]

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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Environmental Lab of Texas

Variance/ Corrective Action Re	port- Sample	e Log-Ir	1	
client Lawner Assec.				
Date/ Time 10/61/67 6 /5 30				
Lab ID# 2905 TO				
Initials. QUIST				
Sample Receipt	Chacklist			
Oample Necelpt	Checkist		CII	ent Initials
#1 Temperature of container/ cooler?	T Yes T	No	4 0 ° cl	ent initials
#2 Shipping container in good condition?	Yes)	No		
#3 Custody Seals intact on shipping container/ cooler?	(Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	(Yes)	No	HOLLIESEIN	
#6 Sample instructions complete of Chain of Custody?	Yes)	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No	1	
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Samples in proper container/ bottle?	(Yes)	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	(Yes)	No		
#15 Preservations documented on Chain of Custody?	(Yes)	No		
#16 Containers documented on Chain of Custody?	Yes	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	_ No	(Not Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	
Variance Docu	mentation			
Contact Contacted by.	 		Date/ Time:	
Regarding:				
Corrective Action Taken:				

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Check all that Apply

Phone: 432-563-1800 Fax: 432-563-1713 TRRP M.A.O.M. CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST RCI FRISCOE BTEX 8021B/5030 or BTEX 8260 7-01 Semiyolatiles Analyze Standard TCLP: TOTAL: SAR / ESP / CEC Anions (CI, SO4, Alkalinity) Cations (Ca, Mg, Na, K) # Od Project Loc: Project # Report Format: 9001 XT 2001 XT Hal M2108 80108 Specify Other P=Non-Potable W=Drinking Water SL=Sludge Other (Specify) enoN 12600 West I-20 East Odessa, Texas 79765 Na2S2O3 HOBN *oszH нсі ONH 90[Fotal #. of Containers 2 ield Fillered e-mail: Fax No: 230 47 Time Sampled 5 Associate chelle to venty 70/11/01 Marienfel 787-090 Date Sampled Michelle Green Ending Depth Environmental Lab of Texas Be Beginning Depth Date Arson FIELD CODE A Xenco Laboratories Company Sampler Signature: Company Address: Company Name Project Manager: Telephone No: City/State/Zip: ecial Instructions Relinquished by ORDER# (Vino esu dal) # 8A

TAT brebnets

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

□ NPDES

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Relinquished by:	Relinquished by	$\langle \rangle$	Relinguished	Special Instructions:									27	2	AB#(lab use only)	(lab use only)	· S	_ 1	c	C) (o :	o	
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Temperature Upon Receipt	by Sampler/Clieft, Rep. 7. by Courier? UPS DHL	lis o		Sample Containers Intact? VOCs Free of Headspace?		+	╁	+	╁	+	╁	╁╌	1	X		Part of		_	_	1	!!	; **	١	
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Standard TAT

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Tanana & Asama	,	· •	
Client: Lanon Assoc.		•	•
Date/ Time: 10/61/ (7 @ 15 3)			
ab ID#: 290550			•
nitials: On MA			
			
Sample Receipt	Checklist		
Townseature of container/ cooler?	Yes	No	Client Initials
1 Temperature of container/ cooler?	Yes)	No No	7.0 10
Shipping container in good condition? Custody Seals intact on shipping container/ cooler?	(Yes	No	Not Descript
	Yes	No	Not Present
Custody Seals intact on sample bottles/ container? Chain of Custody present?	(Yes)	No	Not Present
	Yes)	No	
	(Yes)	No	
†7 Chain of Custody signed when relinquished/ received? †8 Chain of Custody agrees with sample label(s)?	Yes	No	ID with a second of the second
#9 Container label(s) legible and intact?	(Yes)	No	ID written on Cont./ Lid
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No	Not Applicable
#11 Containers supplied by ELOT?	(Yes)	No	
#12 Samples in proper container/ bottle?	(Yes)	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	(Yes)	No	See Below
#15 Preservations documented on Chain of Custody?	(Yes)	No	
#16 Containers documented on Chain of Custody?	Ves	No	
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below
#18 All samples received within sufficient hold time?	Ves	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	Yes	No	
#20 VOC samples have zero headspace:	1 168	INO	Not Applicable
Variance Docu	mentation		
Contact: Contacted by:			Data! Times
Contact: Contacted by:	· · · · · · · · · · · · · · · · · · ·	•	Date/ Time:
Regarding:			
			
O and the Adian Talana			
Corrective Action Taken:			1
Check all that Apply: See attached e-mail/ fax			

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Analytical Report 291164

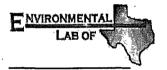
for

Larson & Associates

Project Manager: Michelle Green

Frisco State A Battery 7-0111

16-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





16-OCT-07

Project Manager: Michelle Green

Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 291164

Frisco State A Battery

Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 291164. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 291164 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Sample Cross Reference 291164



Larson & Associates, Midland, TX

Frisco State A Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH # 3, 0'	S	Oct-11-07 08:05		291164-001
BH # 3, 10'	S	Oct-11-07 08:15		291164-002
BH # 3, 20'	S	Oct-11-07 08:25		291164-003
BH # 3, 30'	S	Oct-11-07 08:40		291164-004
BH # 3, 40'	S	Oct-11-07 08:50		291164-005
BH # 3, 50'	S	Oct-11-07 09:00		291164-006
BH # 4, 0'	S	Oct-11-07 09:10		291164-007
BH # 4, 10'	S	Oct-11-07 09:23		291164-008
BH # 4, 20'	S	Oct-11-07 09:35		291164-009
BH # 4, 30'	S	Oct-11-07 09:47		291164-010
BH # 4, 40'	S	Oct-11-07 09:55		291164-011
BH # 5, 0'	S	Oct-11-07 10:40		291164-012
BH # 5, 10'	S	Oct-11-07 11:00		291164-013
BH # 5, 20'	S	Oct-11-07 11:10		291164-014
BH # 5, 30'	S	Oct-11-07 11:25		291164-015
BH # 5, 40'	S	Oct-11-07 11:35		291164-016



Certificate of Analysis Summary 291164

Larson & Associates, Midland, TX

Project Name: Frisco State A Battery



Project Id: 7-0111

Contact: Michelle Green

Project Location:

Date Received in Lab: Fri Oct-12-07 09:22 am

Report Date: 16-OCT-07

Project Manager: Brent Barron, II

								I Tojece II za	BCX -	Bient Barron,			
	Lab Id:	291164-0	01	291164-0	002	291164-0	03	291164-0	04	291164-0	05	291164-0	06
Analysis Requested	Field Id:	BH#3,	0'	BH # 3, 1	10'	BH # 3, 2	20'	BH#3,3	10'	BH # 3, 4	101	BH # 3, 5	0'
Anutysis Requesteu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-11-07 (8.05	Oct-11-07 (08:15	Oct-11-07 0	8 25	Oct-11-07 (8:40	Oct-11-07	8;50	Oct-11-07 0	9 00
Percent Moisture	Extracted:												
	Analyzed:	Oct-12-07	12 23	Oct-12-07	12.23	Oct-12-07 1	2 23	Oct-12-07 1	2 23	Oct-12-07 1	2.23	Oct-12-07 1	2 23
	Units/RL:	%	RL	%	RL	%	RL	%	RL	% _	RL_	%	RL
Percent Moisture		4 1 1	1.00	6.68	1.00	9.56	1 00	3 85	1.00	1.30	1 00	1 73	1.00
TPH by SW8015 Mod	Extracted:	Oct-12-07 1	3.40	Oct-12-07 1	13:40	Oct-12-07 1	3.40	Oct-12-07 1	3 40	Oct-12-07 I	3 40	Oct-12-07 1	3 40
11 II by 5 Woolb Mou	Analyzed:	Oct-13-07 (7.42	Oct-13-07 (80.80	Oct-13-07 0	8.33	Oct-13-07 (8 59	Oct-13-07 0	9 24	Oct-13-07 0	9.49
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL_
C6-C12 Gasoline Range Hydrocarbons		ND	10.4	ND	10.7	ND	11.1	ND	104	ND	10.1	ND	10 2
C12-C28 Diesel Range Hydrocarbons		12 5	10 4	11.1	10.7	ND	11 1	11.7	10 4	ND	10 1	ND	10 2
Total Chloride by EPA 325.3	Extracted:												
	Analyzed:	Oct-12-07 1	3.45	Oct-12-07	13 45	Oct-12-07 1	3 45	Oct-12-07 1	3.45	Oct-12-07 I	3.45	Oct-12-07 1	3 45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		128	5 00	42.5	5 00	191	5.00	128	5 00	85 1	5 00	42 5	5 00

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount involced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 291164

Larson & Associates, Midland, TX

Project Name: Frisco State A Battery



Project Id: 7-0111

Contact: Michelle Green

Project Location:

Date Received in Lab: Fri Oct-12-07 09:22 am

Report Date: 16-OCT-07

Project Manager: Brent Barron II

								Project Mai	nager:	Brent Barron,	11		
	Lab Id:	291164-0	007	291164-0	800	291164-0	09	291164-0	10	291164-0	011	291164-0	12
Analysis Degreeted	Field Id:	BH # 4,	0'	BH#4,	10'	BH # 4, 2	20'	BH # 4, 3	30'	BH # 4,	40'	BH # 5, ()'
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-11-07	09 10	Oct-11-07	09:23	Oct-11-07	9.35	Oct-11-07 (9.47	Oct-11-07	09:55	Oct-11-07 1	0.40
Percent Moisture	Extracted:												
	Analyzed:	Oct-12-07	12.23	Oct-12-07	12.23	Oct-12-07 1	2 23	Oct-12-07	12.23	Oct-12-07	12 23	Oct-12-07 1	2.23
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.07	1.00	6.81	1,00	2.68	1.00	5 08	1.00	2 12	1 00	4 52	1.00
TPH by SW8015 Mod	Extracted:	Oct-12-07	13.40	Oct-12-07	13:40	Oct-12-07 1	3.40	Oct-12-07	13:40	Oct-12-07	13 40	Oct-12-07 1	3 40
	Analyzed:	Oct-13-07	10 14	Oct-13-07	10 39	Oct-13-07 1	1.30	Oct-13-07 1	1.56	Oct-13-07	12.21	Oct-13-07 1	2.47
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	10.3	ND	10 7	ND	10 3	ND	10.5	59 4	10 2	ND	10 5
C12-C28 Diesel Range Hydrocarbons		53.7	10.3	16.2	10.7	ND	10 3	ND	10.5	1260	10 2	ND	10.5
Total Chloride by EPA 325.3	Extracted:												
	Analyzed:	Oct-12-07	13:45	Oct-12-07	13·45	Oct-12-07 1	3:45	Oct-12-07 1	3:45	Oct-12-07	13.45	Oct-12-07 1	3.45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		42.5	5 00	85.1	5 00	63 8	5 00	170	5.00	95.7	5.00	53 2	5 00

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 291164

Larson & Associates, Midland, TX

Project Name: Frisco State A Battery



Project Id: 7-0111

Contact: Michelle Green

Project Location:

Date Received in Lab: Fri Oct-12-07 09 22 am

Report Date: 16-OCT-07

Project Manager: Brent Barron, II

								Project Mai	nager:	Brent Barron, II	
,	Lab Id:	291164-0	13	291164-0	14	291164-0	15 '	291164-0	16		
Analysis Requested	Field Id:	BH # 5,	10'	BH # 5, 2	20'	BH # 5, 3	10'	BH # 5, 4	10'		
Anulysis Requesteu	Depth:										
	Matrix:	SOIL		SOIL	1	SOIL		SOIL			
	Sampled:	Oct-11-07	11:00	Oct-11-07 1	1:10	Oct-11-07 1	1.25	Oct-11-07 1	1.35		
Percent Moisture	Extracted:										
2 07 0310 172 010 141	Analyzed:	Oct-12-07	12.23	Oct-12-07 1	12.23	Oct-12-07 1	2 23	Oct-12-07 1	2.50		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		8 87	1 00	4 96	1 00	3.19	1 00	1 73	1.00		
TPH by SW8015 Mod	Extracted:	Oct-12-07	13.40	Oct-12-07 1	13·40	Oct-12-07 1	3.40	Oct-12-07 1	3.40		
I I I by 5 Woode Made	Analyzed:	Oct-13-07	13 12	Oct-13-07 1	13.38	Oct-13-07 1	4 04	Oct-13-07 1	4.29	1	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
C6-C12 Gasoline Range Hydrocarbons		ND	11.0	ND	10.5	ND	10.3	ND	10.2		
C12-C28 Diesel Range Hydrocarbons		ND	11.0	ND	10 5	74 1	10 3	ND	10.2		
Total Chloride by EPA 325.3	Extracted:					,					
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Analyzed:	Oct-12-07	13:45	Oct-12-07 1	13:45	Oct-12-07 1	3.45	Oct-12-07 1	3:45		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		128	5,00	42.5	5.00	42 5	5.00	42.5	5.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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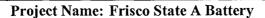
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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555







Work Order #: 291164

Lab Batch #: 706408

Sample: 291164-001 / SMP

Project ID: 7-0111

Batch: 1 Matrix: Soil

Units: mg/kg SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	100	98	70-135	
o-Terphenyl	49.0	50.0	98	70-135	

Lab Batch #: 706408

Sample: 291164-001 S/MS

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	124	100	124	70-135		
o-Terphenyl	54.1	50.0	108	70-135		

Lab Batch #: 706408

Sample: 291164-001 SD / MSD

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	125	100	125	70-135		
o-Terphenyl	58.9	50.0	118	70-135		

Lab Batch #: 706408

Sample: 291164-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	95,4	100	95	70-135			
o-Temhenyl	47.5	50.0	95	70-135			

Lab Batch #: 706408

Sample: 291164-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
I-Chlorooctane	93.8	100	94	70-135			
o-Terphenyl	46.7	50.0	93	70-135			

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution





Project Name: Frisco State A Battery

Work Order #: 291164

Lab Batch #: 706408

Sample: 291164-004 / SMP

Project ID: 7-0111

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg

Onto. mg ng	Settle data the second					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
· Analytes	, ,		[D]			
1-Chlorooctane	96.8	100	97	70-135	1	
o-Terphenyl	46.5	50.0	93	70-135		

Lab Batch #: 706408

Sample: 291164-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane	91.3	100	91	70-135			
o-Terphenyl	43.3	50.0	87	70-135			

Lab Batch #: 706408

Sample: 291164-006 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	89.6	100	90	70-135		
o-Terphenyl	42.7	50.0	85	70-135		

Lab Batch #: 706408

Sample: 291164-007 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg		SURROGATE RECOVERY STUDY					
,	SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
A	nalytes			[D]			
1-Chlorooctane	i	92.0	100	92	70-135		
o-Terphenyl		45.1	50.0	90	70-135		

Lab Batch #: 706408

Sample: 291164-008 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	100	100	100	70-135		
o-Terphenyl	49.4	50.0	99	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution





Project Name: Frisco State A Battery

Work Order #: 291164

Sample: 291164-009 / SMP

Project ID: 7-0111

Lab Batch #: 706408

Matrix: Soil Batch: 1

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	95.4	100	95	70-135		
o-Terphenyl	46.5	50.0	93	70-135		

Lab Batch #: 706408

Sample: 291164-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	93.4	100	93	70-135		
o-Terphenyl	46.3	50.0	93	70-135		

Lab Batch #: 706408

Sample: 291164-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	90.2	100	90	70-135	<u></u>			
o-Terphenyl	45.4	50.0	91	70-135				

Lab Batch #: 706408

Sample: 291164-012 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	93.5	100	94	70-135				
o-Terphenyl	45.5	50.0	91	70-135				

Lab Batch #: 706408

Sample: 291164-013 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	92.5	100	93	70-135		
o-Terphenyl	46.5	50.0	93	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution





Project Name: Frisco State A Battery

Work Order #: 291164

Project ID: 7-0111

Lab Batch #: 706408

Sample: 291164-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane	94.9	100	95	70-135					
o-Terphenyl	47.0	50.0	94	70-135					

Lab Batch #: 706408

Sample: 291164-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]	(
1-Chlorooctane	94.1	100	94	70-135	
o-Terphenyl	47.2	50.0	94	70-135	

Lab Batch #: 706408

Sample: 291164-016 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	96.3	100	96	70-135		
o-Terphenyl	47.6	50.0	95	70-135		

Lab Batch #: 706408

Sample: 500406-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	43.7	50.0	87	70-135	

Lab Batch #: 706408

Sample

Sample: 500406-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg SURROGATE RECOVERY STUI					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Blank Spike Recovery



Project Name: Frisco State A Battery

Work Order #: 291164

Project ID:

7-0111

Lab Batch #: 706408

Sample: 500406-1-BKS

Matrix: Solid

Date Analyzed: 10/13/2007

Date Prepared: 10/12/2007

Analyst: SHE

Reporting Units: mg/kg	Batch #: 1 BLANK /BLANK SPIKE RECOVERY ST					
TPH by SW8015 Mod Blank Result [A]		Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes			[C]	[D]]]
C6-C12 Gasoline Range Hydrocarbons	ND	1000	990	99	70-135	
C12-C28 Diesel Range Hydrocarbons	ND	1000	979	98	70-135	

Lab Batch #: 706284

Sample: 706284-1-BKS

Matrix: Solid

Date Analyzed: 10/12/2007

Date Prepared: 10/12/2007

Analyst: IRO

Reporting Units: mg/kg

Batch #:

BLANK/BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes			[C]	[D]		<u> </u>
Chloride	ND	100	97.8	98	75-125	



Form 3 - MS / MSD Recoveries



Project Name: Frisco State A Battery

Work Order #: 291164

Project ID: 7-0111

Lab Batch ID: 706408

QC-Sample ID: 291164-001 S

Batch #:

Matrix: Soil

Date Analyzed: 10/13/2007

Date Prepared: 10/12/2007

Analyst: SHE

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1040	1090	105	1040	1170	113	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	12.5	1040	1120	106	1040	1180	112	6	70-135	35	

Lab Batch ID: 706284

QC- Sample ID: 291164-009 S

Batch #:

Matrix: Soil

Date Analyzed: 10/12/2007

Date Prepared: 10/12/2007

Analyst: IRO

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Total Chloride by EPA 325.3 Analytes	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]] [[D]	[E]		[G]				_
Chloride	63 8	500	553	98	500	542	96	2	75-125	30	



Sample Duplicate Recovery

1



Project Name: Frisco State A Battery

Work Order #: 291164

Lab Batch #: 706352

Date Prepared: 10/12/2007

Project ID: 7-0111

147

Date Analyzed: 10/12/2007 **QC- Sample ID:** 291152-001 D

Percent Moisture

Analyte

Batch #:

Analyst: WRU
Matrix: Soil

Reporting Units: %

SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag

Lab Batch #: 706356

Date Analyzed: 10/12/2007

Date Prepared: 10/12/2007

1.77

Analyst: WRU

F

QC- Sample ID: 291164-015 D

Batch #: 1

Matrix: Soil

Reporting Units: %

Percent Moisture

Percent Moisture

s: %	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
	3.19	3.20	0	20	

11.7

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 № 29605 CHAIN-OF-CUSTODY

	TICAL			CHAM-01-00010L
CLIENTALS a	N & ASSOCIATES		DATE: 10-11-07	PAGE _ OF _2
ADDRESS:	MI CHOILE GREEN		PO#	DHL WORK ORDER #
DATA REPORTED TO	W. CHOZZ F G. ST.		PROJECT LOCATION OR NAM	DHL WORK ORDER #A
ADDITIONAL REPORT	T COPIES TO	- 1	CLIENT PROJECT # Z-0	11.1 COLLECTOR: M LARSON
J	· · · · · · · · · · · · · · · · · · ·		7,677	
Authorize 5% surcharge for TRRP report?	S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR OT=OTHER	PRESERVATION		
☐Yes ☐ No	A-AIN CHAOTHEN	 		
	1	M of Containers HCI HNO, H,SO, J NAOH, ICE UMPRESERVED	.5 /\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\	\\$\\$\\\$\\^\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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BH #3, 20'	8:25			T T T T T T T T T T T T T T T T T T T
BH# 3, 30'	108:2			-01
Bu #= 3, 40'	68:50			
BH#1 50' _	19:00			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
BH#4 0'	09:10			
BH#4, 10	07:23			- 180.
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BH# 4, 30'	9:41	·┤╿┤ ╴ ┼─┤	 	
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OH 11-55 50	10 120	+++		
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BH # 5, 10'	11:10	┥┇┾╌┼╌╎╶┠╂┿╌╏╌┿╌┊	╎ ┧ ╿╏╎ ┈╿╺╇╍╇╸╎╌┼╴╏╺╴	
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00	DATE TIME OF B	ECEIVED By (Signature)	TURN AROUND TIME	RECEIVING TEMP 0.5
RELINQUISHED BY (SIC	gnature) DATE/(IME R	ECLIVED By (Signature)	1 DAY 7 CALLFIRST	CUSTODY SEALS - 1 BROKEN 1 INTACT XNOT US
RELINQUISHED BY 15kg	mature) DATE/TIME R	ECFIVED BY. (Signature)	2 DAY 7	CUSTODY SEALS: I BHOKEN TIMIACT KNOT OF
			NORMAL T 3 Lang	TAPC DELIVERY
	7 DHL DISPOSAL @ \$5 00 each	7 Heturn	Tourn's Start	MAND DELIVERED

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Environmental Lab of Texas

	Variance/ Corrective Action Rep	ort- Sample	e Log-In		
Client	Larson + Associates				
Date/ Time	10-12-07 @ 0922				
Lab ID#	291164				
Initials	JMF				
	Sample Receipt	Chacklist			
	Sample Necespt	OHECKHAL		Client Initi	als
#1 Tempera	ature of container/ cooler?	Yes >	No	0.5 °C	٦
	container in good condition?	Yes	No		┪
	Seals intact on shipping container/ cooler?	Yes	No	(Not Present,	7
	Seals intact on sample bottles/ container?	Yes	No	Not Present-	7
	f Custody present?	Yes	No		٦ .
	instructions complete of Chain of Custody?	(Yes)	No		7
	f Custody signed when relinquished/ received?	(Yes)	No		٦
	f Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	7
#9 Contain	er label(s) legible and intact?	(Yes)	No	Not Applicable	7
#10 Sample	matrix/ properties agree with Chain of Custody?	Yes	No		
#11 Contain	ners supplied by ELOT?	Yes	No		7
#12 Sample	es in proper container/ bottle?	(Yes/	No	See Below	7
#13 Sample	es properly preserved?	(Yes/	No	See Below	3
#14 Sample	e bottles intact?	Yes	No		7
#15 Presen	vations documented on Chain of Custody?	Yes	No		7
	ners documented on Chain of Custody?	Yes	No		
#17 Sufficie	ent sample amount for indicated test(s)?	Yes	No	See Below	
#18 All sam	ples received within sufficient hold time?	Yes	No	See Below	7
	ntract of sample(s)?	Yes	Nο	Not Applicable	
#20 VOC s	amples have zero headspace?	(Tes)	No	Not Applicable	
Contact:	Variance Docu	mentation		Date/ Time:	
Regarding.					
	-			· · · · · · · · · · · · · · · · · · ·	
				· · · · · · · · · · · · · · · · · · ·	
Corrective A	action Taken.				

See attached e-mail/ fax
Client understands and would like to proceed with analysis
Cooling process had begun shortly after sampling event

Check all that Apply:



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CHAIN-OF-CUSTODY

CLIENT: LARSON & ASSOCIATES ADDRESS: PHONE: FAX DATA REPORT CORES TO GREEN IN														0-1	1-0	27	,							_ PAGI	OF 2
ADDRESS:																•									•
PHONE:	laa	0	F	AX	า .						PF	ROJE	CTL	OCAT	ION	ORI	NAM	IE:		2.50	20	57	74-T-E	- 6	BATTERY
ADDITIONAL REPORT	CODIE	C TO:	UE		REEN	-18					CI	IFN ⁻	T PR	OUEC:	Г#•	7	-0	///	,		C	OLL	CTO	R. Im	LARSON
ADDITIONAL TEL ON	T					13									·	7	, ,				_		7 7	··· ** 1	
Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No	S=SO W=WA A=AIR	ATER	P=PAINT SL=SLUI OT=OTH	OGE		4026	RESEF	1	Q:		ر ئ		/\di \di \di \di \di			\$200									
Field Sample I.D.	DHL Lab#	Zoo7 Date		Matrix	Container Type	# of Containers		1,200 1,000	UNPRESERVED	ANALY						8/0 8/3 3/1									291164 FIELD NOTES
BH#3 0'		10-11	08:05	5.	402	1		X			X	X													-01
BH #3, 10'			08:15									1													-02
BH #3, 20'			38:25																						-03
Вн # 3, 30'			08:25 08:40					Ш											\perp			Ш			-01
Bu#3 40'			68:50					Ш																	^OS
BH#3 50'			09:00					Ш														\coprod			-64
BH#4 0'			09:10					Ш														1			-07
BH# 4 10'			09:23					\coprod				Ш										1			-0%
BH#4, 20'			09:35					Ш			Ш														-04
BH#430'			09:47													<u> </u>						1			-10
BH#4 40'			09:55					11				11			\perp	ļ						Ш.	1.1		-11
BH # 5 80'	(B)		10:20			 -		#			\pm	+			+	 		_	+	+		+	++		
BH#5,0'			10:40									4				1			<u> -</u>			1			-12
BH#5, 10'	1		11:00					Ш			Ш	$\perp \! \! \! \! \! \! \! \! \! \! \! \perp$	_			ļ						$\perp \!\!\! \perp$			~13
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RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature))					□ 1 3.	Ken	1	ΠA	PC D	HER I	ERY				
☐ DHL DISPOSAL @ \$5.00 each ☐ Return											OTHER 3 ALL STAND DELIVERY														



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№ 29606 CHAIN-OF-CUSTODY

CLIENT: ARSON & ASSOCIATES ADDRESS:													נ	DATI	E: .	10)-/	1-	07	7						_					_PA	GE _	2	_OF	2	
ADDRESS:												_																								
DATA REPORTED TO:		TICHE	715	G_{i}	2 EEN	***************************************	<u> </u>					<u> </u>																						1 4 TT 1 R S		
Authorize 5% surcharge for TRRP report?	W=WATER SL=SLUDGE A=AIR OT=OTHER												<u> </u>						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\								/	//	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			ALLALI				_
Field Sample I.D.	DHL Lab#	1	Time	Matrix	Container Type	# of Conta	당	HNO3	H ₂ SO ₄ □	ALIA!				[8] 8 8/8/8/8/ 8/8/8/		\$ 60 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\									ј / / (ои о				
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☐ DHL DISPOSAL @ \$5.00 each ☐ Return													OTI	HEF	X	2	Uh	<u>~</u>	1	3 H/	NE	DE	LIV	ER	ED											

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson + Associates			
Date/ Time: 10 - 12 - 07 @ 09 ZZ			
Lab ID#: 291164			•
Initials: JMF	,		
IIIIIIdis.			
Sample Receipt	Checklist		
			Client Initials
#1 Temperature of container/ cooler?	(es)	No	0,5 °C
#2 Shipping container in good condition?	Yes	No	
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present)
#4 Custody Seals intact on sample bottles/ container?	Yes	No	(Not Present
#5 Chain of Custody present?	Yes	No	
#6 Sample instructions complete of Chain of Custody?	(Yes)	No	
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No	
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid
#9 Container label(s) legible and intact?	(Yes)	No.	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11 Containers supplied by ELOT?	Yes	No	
#12 Samples in proper container/ bottle?	Yes	No	See Below
#13 Samples properly preserved?	Yes	No	See Below
#14 Sample bottles intact?	Yes	No	
#15 Preservations documented on Chain of Custody?	Yes	No	
#16 Containers documented on Chain of Custody?	Yes	No	
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18 All samples received within sufficient hold time?	(Yes)	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable
Variance Docu	mentation		
Contact: Contacted by:			Date/ Time:
Regarding:			
Regarding.			
		·	
Corrective Action Taken:			•
	······································		
Check all that Apply: See attached e-mail/ fax Client understands and wou Cooling process had begun	•		



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 Nº 29605

CHAIN-OF-CUSTODY

CLIENT: LARSON & ASSOCIATES ADDRESS: PHONE: FAX DATA REPORTED TO: WILCHELLE GREEN ADDITIONAL REPORT COPIES TO:												DA	TE:	: _	10	· / _1	· (2 7	,					_				t	PAGE	:)F _	Lance.		
ADDRESS:													DATE:																						
PHONE:FAX													PROJECT LOCATION OR NAME: FRISCH STATE A GATTERY														Z								
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ADDITIONAL REPORT COPIES TO:													CL	.1=1.	111							_			_ `	,OL			Jn	10		C7 /5	<u> </u>	214	_
Authorize 5% surcharge for TRRP report?	S=SO W=W/ A=AIF	ATER	P=PAIN SL=SLU OT=OT	JDGE		4.24	PRI	SER	T	ല			6																					//	
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2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 № 29605

CHAIN-OF-CUSTODY

CLIENT: LARSON							<u> </u>						DA	TE:	19	2-1	1-1	27	<u></u>											PA	GE _	2	_OF	2	
ADDRESS:												PO#:DHL WORK ORDER#: PROJECT LOCATION OR NAME: FRISCO STATE A BATTERY																							
DATA REPORTED TO:	NE: FAX AREPORTED TO: MICHELLE GREEN													ROJE	ECT	LOC	ATI	ON	OR	NAI	ME:	2000	RI	50	0	5	77	97	<u></u>		4_	Bi	777	ER	3/
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Authorize 5% surcharge for TRRP report?	S=SO W=W/ A=AIF	ATER S		of Containers 4 and 255	PRES					2	&/.																Series Se		RIGHT.						
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RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)											CUSTODY SEALS - ¬ BROKEN □ INT 2 DAY □ NORMAL □ OTHER BY 3 1444 □ APC DELIVERY OTHER BY 3 1444 □ THAND DELIVERED									INT		⊕ <no< td=""><td></td><td> </td></no<>		 											
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Analytical Report 291086

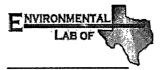
for

Larson & Associates

Project Manager: Michelle Green

Frisco State A 7-0111

16-OCT-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



16-OCT-07

Project Manager: Michelle Green Larson & Associates P.O. Box 50685 Midland, TX 79710

Reference: XENCO Report No: 291086

Frisco State A
Project Address:

Michelle Green:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 291086. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 291086 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Sample Cross Reference 291086

Larson & Associates, Midland, TX

Frisco State A

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TMW1 (0')	. S	Oct-10-07 08:36		291086-001
TMW1 (10')	S	Oct-10-07 08:47		291086-002
TMW1 (20')	S	Oct-10-07 09:00		291086-003
TMW1 (30')	S	Oct-10-07 09:10		291086-004
TMW1 (40')	S	Oct-10-07 09:25		291086-005
TMW1 (50')	S	Oct-10-07 09:35		291086-006
BH-1 (0')	S	Oct-10-07 10:47		291086-007
BH-1 (10')	S	Oct-10-07 10:55.		291086-008
BH-1 (20')	S	Oct-10-07 11:05		291086-009
BH-1 (30')	· S	Oct-10-07 12:25		291086-010
BH-1 (40')	S	Oct-10-07 12:50		291086-011
BH-1 (50')	S	Oct-10-07 13:00		291086-012
BH-2 (0')	S	Oct-10-07 13:23		291086-013
BH-2 (10')	S	Oct-10-07 13:30		291086-014
BH-2 (20')	S	Oct-10-07 13:40		291086-015
BH-2 (30')	S	Oct-10-07 13:55		291086-016
BH-2 (40')	S	Oct-10-07 14:00		291086-017
BH-2 (50')	S	Oct-10-07 14:15		291086-018
BH-2 (60')	S	Oct-10-07 14:25		291086-019
BH-2 (70')	S	Oct-10-07 15:00		291086-020



Project Location:

Certificate of Analysis Summary 291086

Larson & Associates, Midland, TX

Project Name: Frisco State A

Project Id: 7-0111

Contact: Michelle Green

Date Received in Lab: Thu Oct-11-07 09 26 am

Report Date: 16-OCT-07 Project Manager: Brent Barron II

								Project Mai	nager:	Brent Barron,	11		
	Lab Id:	291086-0	01	291086-002		291086-003		291086-004		291086-005		291086-006	
Analysis Requested	Field Id:	TMW1 (0')	TMW1 (1	('0)	TMW1 (2	20')	TMW1 (3	('00	TMW1 (4	‡ 0')	TMW1 (5	50')
Analysis Requesteu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-10-07	8.36 .	Oct-10-07 (8.47	Oct-10-07 (9.00	Oct-10-07 (9.10	Oct-10-07	09.25	Oct-10-07	9.35
Percent Moisture	Extracted:												
7 010000 110000000	Analyzed:	Oct-11-07 1	12 15	Oct-11-07	12 15	Oct-11-07	12.15	Oct-11-07	2 15	Oct-11-07	12 15	Oct-11-07 1	12 15
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6 53	1.00	9,55	1.00	15 1	1.00	5.89	1.00	3.40	1 00	2 39	1 00
TPH by SW8015 Mod	Extracted:	Oct-12-07	3.20	Oct-12-07	13:20	Oct-12-07	13 20	Oct-12-07	3.20	Oct-12-07	13.20	Oct-12-07 1	13.20
	Analyzed:	Oct-12-07 1	9 05	Oct-12-07	19.31	Oct-12-07	19.57	Oct-12-07	20.22	Oct-12-07	20 48	Oct-12-07 2	21.13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	10.7	ND	11.1	ND	118	ND	10.6	ND	10.4	ND	10.2
C12-C28 Diesel Range Hydrocarbons		13.2	10.7	ND	111	13 3	11 8	ND	10.6	ND	10 4	12.4	10 2
Total Chloride by EPA 325.3	Extracted:												
	Analyzed:	Oct-11-07 1	3 30	Oct-11-07	13·30	Oct-11-07	13 30	Oct-11-07 1	3:30	Oct-11-07	13.30	Oct-11-07 1	13.30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		114	5.35	176	5,53	150	5.89	90.4	5.31	88 1	5 18	87 2	5 12

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron Odessa Laboratory Director



Certificate of Analysis Summary 291086

Larson & Associates, Midland, TX

Project Id: 7-0111

Contact: Michelle Green

Project Name: Frisco State A

Date Received in Lab: Thu Oct-11-07 09.26 am

Report Date: 16-OCT-07

Project Location:				•	Report Date:	16-OCT-07
					Project Manager:	Brent Barron, II
	Lab Id:	291086-007	291086-008	291086-009	291086-010	291086-011

	Lab Id:	291086-0	007	291086-0	800	291086-0	109	291086-0	10	291086-0	11	291086-0	12
Analysis Requested	Field Id:	BH-1 (0)')	BH-1 (1	0')	BH-1 (20	0')	BH-1 (30)')	BH-1 (40)')	BH-1 (50)')
Anutysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-10-07	10 47	Oct-10-07	10.55	Oct-10-07 1	11.05	Oct-10-07 1	2:25	Oct-10-07 1	2 50	Oct-10-07 1	3 00
Percent Moisture	Extracted:							_					
	Analyzed:	Oct-11-07	12 15	Oct-11-07	12 15	Oct-11-07 1	12 15	Oct-11-07 1	2.15	Oct-11-07 1	2 15	Oct-11-07 1	2 1 5
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3 52	1 00	4.60	1.00	4.39	1 00	3.76	1 00	2.09	1.00	1 50	1.00
TPH by SW8015 Mod	Extracted:	Oct-12-07	13 20	Oct-12-07	13 20	Oct-12-07 1	13.20	Oct-12-07 1	3.20	Oct-12-07 1	3:20	Oct-12-07 1	3 20
TITI by SWOOTS Midd	Analyzed:	Oct-12-07	21·39	Oct-12-07	22.04	Oct-12-07 2	22 30	Oct-12-07 2	2.55	Oct-12-07 2	23 45	Oct-13-07 0	0 11
	Units/RL:	· mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	10.4	ND	10 5	ND	10.5	ND	10.4	ND	10 2	ND	10 2
C12-C28 Diesel Range Hydrocarbons		11.6	10.4	36 0	10 5	25 0	10 5	10 4	10 4	10 3	10 2	ND	10.2
Total Chloride by EPA 325.3	Extracted:												
2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Analyzed:	Oct-11-07	13·30	Oct-11-07	13 30	Oct-11-07 1	13.30	Oct-11-07 1	3.30	Oct-11-07 1	3.30	Oct-11-07 1	3 30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		88 2	5 18	245	5 24	189	5 23	155	5 20	141	5 11	64 8	5 08

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron Odessa Laboratory Director



Certificate of Analysis Summary 291086

Larson & Associates, Midland, TX

Project Id: 7-0111

Contact: Michelle Green

Project Name: Frisco State A

Project Location:

Date Received in Lab: Thu Oct-11-07 09:26 am

Report Date: 16-OCT-07

Project Manager: Brent Barron, II

	,			,				Project Mai	nager:	Brent Barron,	11		
	Lab Id:	291086-0	13	291086-014		291086-015		291086-016		291086-017		291086-0	18
Analysis Requested	Field Id:	BH-2 (0	')	BH-2 (10	('0	BH-2 (20)')	BH-2 (30	0')	BH-2 (40	0')	BH-2 (50	0')
Anutysis Requesteu	Depth:												
	Matrix:	SOIL		SOIL	ļ	SOIL		SOIL		SOIL		SOIL	
	Sampled:	Oct-10-07 1	3:23	Oct-10-07 1	13:30	Oct-10-07	3.40	Oct-10-07	3.55	Oct-10-07	14 00	Oct-10-07 1	14 15
Percent Moisture	Extracted:											-	
2 01 00000 11 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Analyzed:	Oct-11-07	12 15	Oct-11-07 1	2 15	Oct-11-07	2 15	Oct-11-07	2 15	Oct-11-07	2 15	Oct-11-07 1	12 15
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		2.89	1 00	4 31	1.00	6 01	1.00	4 76	1.00	2.15	1.00	1 91	1.00
TPH by SW8015 Mod	Extracted:	Oct-12-07	13,20	Oct-12-07 1	13:20	Oct-12-07	3.20	Oct-12-07	13 20	Oct-12-07	13-20	Oct-12-07 1	13 20
1111 5 5 1 0015 1 100	Analyzed:	Oct-13-07 (00 36	Oct-13-07 (01:01	Oct-13-07 (1.26	Oct-13-07 (01 52	Oct-13-07 (2 17	Oct-13-07 0	2 42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		10.4	10.3	ND	10 5	ND	10 6	ND	10 5	ND	10 2	ND	10 2
C12-C28 Diesel Range Hydrocarbons .		404	10.3	13 5	10.5	ND	10 6	ND	10.5	118	10 2	ND	10 2
Total Chloride by EPA 325.3	Extracted:												
2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	Analyzed:	Oct-11-07	13.30	Oct-11-07 I	3.30	Oct-11-07 13.30		Oct-11-07	13,30	Oct-11-07	13 30	Oct-11-07 1	13·30
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chlonde		54 8	5.15	55 6	5.23	226	5 32	223	5 25	120	5 11	65,0	5 10

This analytical report and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director

Odessa Bacoratory Director

XENCO Laboratories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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Project Name: Frisco State A

Work Order #: 291086

Lab Batch #: 706382

Sample: 291086-001 / SMP

Project ID: 7-0111

Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg

omo. mg kg	SOURGOATE RECOVERT STOP								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D] .						
1-Chlorooctane ·	89.5	100	90	70-135					
o-Terphenyl	43.5	50.0	87	70-135					

Lab Batch #: 706382

Sample: 291086-001 S/MS

Batch: 1

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]]			
1-Chlorooctane	99.0	100	99	70-135				
o-Terphenyl	42.1	50.0	84	70-135				

Lab Batch #: 706382

Sample: 291086-001 SD / MSD

Batch:

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane	124	100 .	124	70-135					
o-Terphenyl	54.6	50.0	109	70-135					

Lab Batch #: 706382

Sample: 291086-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	89.6	100	90	70-135				
o-Terphenyl	42.9	50.0	86	70-135				

Lab Batch #: 706382

Sample: 291086-003 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	90.3	100	90	70-135				
o-Terphenyl	44.1	50.0	88	70-135				

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Frisco State A

Work Order #: 291086

Lab Batch #: 706382

Sample: 291086-004 / SMP

Project ID: 7-0111

Batch: 1 Matrix: Soil

SURROGATE RECOVERY STUDY Units: mg/kg True Control Amount TPH by SW8015 Mod Limits Flags Found Amount Recovery %R [B] %R [A] [D] **Analytes** 70-135 1-Chlorooctane 87.4 100 87 50.0 70-135 o-Terphenyl 41.4 83

Lab Batch #: 706382

Sample: 291086-005 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	88.6	100	89	70-135					
o-Terphenyl	42.1	50.0	84	70-135					

Lab Batch #: 706382

Sample: 291086-006 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	87.5	100	88	70-135				
o-Terphenyl	41.5	50.0	83	70-135				

Lab Batch #: 706382

Sample: 291086-007 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True • Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	89.4	100	89	70-135		
o-Terphenyl	42.7	50.0	85	70-135		

Lab Batch #: 706382

Sample: 291086-008 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	91.9	100	92	70-135		
o-Terphenyl	44.8	50.0	90	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Frisco State A

Work Order #: 291086

Lab Batch #: 706382

Sample: 291086-009 / SMP

Project ID: 7-0111

Matrix: Soil Batch:

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]		}	
1-Chlorooctane	89.4	100	89	70-135		
o-Terphenyl	43.6	50.0	87	70-135		

Lab Batch #: 706382

Sample: 291086-010 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		,-,	[D]			
1-Chlorooctane	87.6	100	88	70-135	-	
o-Terphenyl	42.4	50.0	85	70-135		

Lab Batch #: 706382

Sample: 291086-011 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	92.4	100	92	70-135	
o-Terphenyl	46.6	50.0	93	70-135	

Lab Batch #: 706382

Sample: 291086-012 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		1	[D]			
1-Chlorooctane	90.5	100	91	70-135		
o-Terphenyl	41.9	50.0	84	70-135		

Lab Batch #: 706382

Sample: 291086-013 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooctane	87.5	100	88	70-135		
o-Terphenyl	43.7	50.0	87	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Frisco State A

Work Order #: 291086

- 201006 014 (47.57)

Project ID: 7-0111

Lab Batch #: 706382

Sample: 291086-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	87.3	100	87	70-135		
o-Terphenyl	42.3	50.0	85	70-135		

Lab Batch #: 706382

Sample: 291086-015 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount {B}	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	93.0	100	93	70-135		
o-Terphenyl	44.9	50.0	90	70-135		

Lab Batch #: 706382

Sample: 291086-016 / SMP

Batch:

1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes		` `	[D]			
1-Chlorooctane	100	100	100	70-135		
o-Terphenyl	47.9	50.0	96	70-135		

Lab Batch #: 706382

Sample: 291086-017 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY				
TPH by SW8015 Mod Analytes	Amount Found [A]	. True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.8	100	88	70-135	
o-Terphenyl	41.3	50.0	83	70-135	

Lab Batch #: 706382

Sample: 291086-018 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True , Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	95.8	100	96	70-135		
o-Terphenyl	46.9	50.0	94	70-135		

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

^{***} Poor recoveries due to dilution



Project Name: Frisco State A

Work Order #: 291086

Lab Batch #: 706382

Sample: 291086-019 / SMP

Project ID: 7-0111

Batch: 1 Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes			[D]						
1-Chlorooctane	90.6	100	91	70-135					
o-Terphenyl	41.9	50.0	84	70-135					

Lab Batch #: 706382

Sample: 291086-020 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes		7	[D]					
1-Chlorooctane	90.8	100	91	70-135				
o-Terphenyl .	42.3	50.0	85	70-135				

Lab Batch #: 706382

Sample: 500400-1-BKS/BKS

Batch:

1 Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY								
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
Analytes	, ,		[D]		Ņ				
1-Chlorooctane	95.3	100	95	70-135					
o-Terphenyl	39.0	50.0	78	70-135					

Lab Batch #: 706382

Sample: 500400-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	88.0	100	88	70-135				
o-Terphenyl	43.3	50.0	87	70-135				

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Blank Spike Recovery

Project Name: Frisco State A

Work Order #: 291086

Project ID:

7-0111

Lab Batch #: 706382

Sample: 500400-1-BKS

Matrix: Solid

Date Analyzed: 10/12/2007

Date Prepared: 10/12/2007

Analyst: SHE

Reporting	Units:	mg/kg
-----------	--------	-------

Reporting Units: mg/kg	Batch #: 1	BLANK/BLANK SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags		
Analytes	[A]	[2]	[C]	[D]	/410			
C6-C12 Gasoline Range Hydrocarbons	ND	1000	890	89	70-135			
C12-C28 Diesel Range Hydrocarbons	ND	1000	877	88	70-135			

Lab Batch #: 706273 **Date Analyzed: 10/11/2007** Sample: 706273-1-BKS

Matrix: Solid

Reporting Units: mg/kg

Date Prepared: 10/11/2007

Analyst: LATCOR

•								
Reporting Units: mg/kg	· Ba	itch #: 1	BLANK /I	BLANK SPI	KE REC	OVERY	STUDY	
Total Chloride by EPA 325.3		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags	

				[C]	[D]		1
Chloride ND 100 95.7 96	Chloride	ND	100	95.7	96	75-125	



Form 3 - MS / MSD Recoveries

Project Name: Frisco State A

Work Order #: 291086

Project ID: 7-0111

Lab Batch ID: 706382

382 QC- Sample ID: 291086-001 S

Batch #:

Matrix: Soil

Date Analyzed: 10/13/2007

Date Prepared: 10/12/2007

Analyst: SHE

TE.

Reporting Units: mg/kg

Reporting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Result Added [A] [B]	[C]	%R A	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1070	973	91	1070	1100	103	12	70-135	35	
C12-C28 Diesel Range Hydrocarbons	13 2	1070	971	90	1070	1100	102	13	70-135	35	

Lab Batch ID: 706273

QC- Sample ID: 291086-002 S

002 S Batch #:

1 Matrix: Soil

Date Analyzed: 10/11/2007

Date Prepared: 10/11/2007

Analyst: LATCOR

Reporting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
Total Chloride by EPA 325.3	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	176	1110	1250	97	1110	1200	92	5	75-125	30	



Sample Duplicate Recovery

Project Name: Frisco State A

Work Order #: 291086

Lab Batch #: 706227

Project ID: 7-0111

Date Analyzed: 10/11/2007 Date Pr

Date Prepared: 10/11/2007

Analyst: RBA

QC- Sample ID: 291086-001 D

Batch #:

Matrix: Soil

Reporting Units: %

SAMPLE	SAMPLE	DUPLICATE	RECOVERY	
Parant Cample	Sample	Cou	ntrol	

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.53	6.38	2	20	

	I)	F	I	L
SETTING IN	Λ .	A B	ıv	TI	CAL

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CHAIN-OF-CUSTODY

CLIENT: Jane	~ + Assoc		11/11/07	
ADDRESS:			DATE 10/11/07	
PHONE:	On \ FAX		PO #:	DHL WORK ORDER #:
DATA REPORTED TO:	M. Den T	nichelle (nenviron	PROJECT LOCATION OR NAM	E: JUSCO STUCE A - DB
ADDITIONAL REPORT COPI	ES TO:		PROJECT LOCATION OR NAM CLIENT PROJECT #:	11 COLLECTOR: RB
Authorize 5% S=S(surcharge for W=W TRRP report? A=AI	ATER SLESLUDGE	PRESERVATION		
Yes No		ers OH L		
Field DH1. Sample I.D Lab#	2007 MST Contai	# of Containers # of Containers HCI HNO, H,SO, J NaOH,J ICE UNPRESERVED		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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TMW 1 (101)	8:47	2		- - - - - - - - -
TMW 1 (201)	9:00			
7MW ((301)	9:10			-\-
TMW 1 (404)	9:25		† \ 	T T T T T T T T T T T T T T T T T T T
TMW 1 (501)	9:35		 	T T T T T T T T T T T T T T T T T T T
BH-1 (01)	10:47			· †
BH-1 (101)	10.75		†# 	
BH-1 (201)	11:05		 	- -
BH-1 (301)	12:25			-
BH-1 (40)	12:50		/ 	一
BH-1 (50)	13:00		+\ \ + - - - - 	T T T T T T T T T T T T T T T T T T T
BH-2 (01)	13:23		<u> </u>	
BH-2 (101)	13:30			-
BH-2 (20)	13:40	- 		
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		,	1 DAY 7 CALL FIRST	CUSTODY SEALS - 7 BROKEN 7 INTACT / NOT USED
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY. (Signature)	NORMAL 7	TO CARRIER BILL #
	DHL DISPOSAL @ \$5.00 each	7 Return	OTHER X 2000	THAND DELIVERED



The state of the s

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CHAIN-OF-CUSTODY

CLIENT: _ LLY,	502 + As	500.		DATE:	10/11/017		of <u>2</u> .
		FAX		PO#:.		DHL WORK ORDER #:	\
PHONE:	M. A			PROJE	ECT LOCATION OR NA	ME: Frisio State A COLLECTOR: RB	
ADDITIONAL REPORT				CLIEN'	IT PROJECT#: 7-07	11 COLLECTOR: RB	[
	TOOPIES 10						7777
Authorize 5% surcharge for TRRP report?		INT LUDGE OTHER	PRESERVATION				
☐Yes ☐No			NaOH J			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Field	DHL 2007	Containe	# of Containers HCI HNO, H,SO, J NaOH, I,CE UNPRESERVED			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10840
Sample I D	Lab # Date Tim	ne Matrix Type		/&]&]&]	?\\$\\$ <u>\</u> \$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\\\$\	3/3/8/8/8/8/3// / FIELU	NOTES
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

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Temperature of container/ cooler?	Yes	No	-3.0°C	item include
Shipping container in good condition?	Yes	No	- 3.0	
Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	Yes	No	TARIT GOOD	
Sample instructions complete of Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	(Es	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	(es)	No	Not Applicable	
O Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	(Yes)	No		
12 Samples in proper container/ bottle?	(Yes)	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	(es)	No		
15 Preservations documented on Chain of Custody?	(Yes)	No		
16 Containers documented on Chain of Custody?	(es)	No		
17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
18 All samples received within sufficient hold time?	(es)	No	See Below	
19 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	(Yes)	No	Not Applicable Ch	16 2
Contact: Contacted by:	mentation	-	Date/ Time:	
Regarding:				



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 № 29607

CHAIN-OF-CUSTODY

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CHAIN-OF-CUSTODY

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Larson & Assoc.	•	J	
i la 0 0:21	•		
Date/ Time: /c/// 01 6 9:24 Am			
Lab ID#: 29/084			
Client: <u>Larson & Assoc.</u> Date/ Time: <u>10/11/01 & 9:24 Am</u> Lab ID #: <u>2910 84</u> Initials: <u>amm</u>			
V	01 111 1		
Sample Receipt	Checklist		
Fig. =	T Va	NI	Client Initials
#1 Temperature of container/ cooler?	Yes	No	-3.0 °C
#2 Shipping container in good condition?	Yes	No No	AKI Dranat
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5 Chain of Custody present?			
#6 Sample instructions complete of Chain of Custody? #7 Chain of Custody signed when relinquished/ received?	Yes Yes	No No	
#7 Chain of Custody signed when relinquished/ received? #8 Chain of Custody agrees with sample label(s)?	Yes	No No	ID written on Cont./ Lid
#9 Container label(s) legible and intact?	Yes	No	Not Applicable
	Yes	No	Not Applicable
	(Yes)	No	
#11 Containers supplied by ELOT? #12 Samples in proper container/ bottle?	Ves	No	See Below
#12 Samples in proper container bottle: #13 Samples properly preserved?	Yes	No	· · · · · · · · · · · · · · · · · · ·
#14 Sample bottles intact?	(es)	No	See Below
#15 Preservations documented on Chain of Custody?	(Yes)	No	
#16 Containers documented on Chain of Custody?	(les)	No	
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below
#18 All samples received within sufficient hold time?	Yes	No	See Below
#19 Subcontract of sample(s)?	Yes	No	Not Applicable
#20 VOC samples have zero headspace?	Yes)	No	Not Applicable On (A)
#20 VOC Samples have zero neadspace:	(163)	140	Not Applicable of MA
Variance Docu	mentation		
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Contact: Contacted by:			Date/ Time:
		•	
Regarding:			
Corrective Action Taken:			
Check all that Apply: See attached e-mail/ fax			
Client understands and wou			
Cooling process had begun	shortly after	sampling	g event



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 Nº 29607

CHAIN-OF-CUSTODY

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CHAIN-OF-CUSTODY

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October 18, 2007

Michelle Green Larson & Associates 507 N. Marienfeld #202 Midland, TX 79701

TEL: (432) 687-0901 FAX (432) 687-0456

RE: JHHC Frisco State "A"

Dear Michelle Green:

RECEIVED

0CT 2 2 2007

BY:_____

Order No.: 0710125

DHL Analytical received 1 sample(s) on 10/16/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX



TABLE OF CONTENTS

This report for Larson & Associates: JHHC Frisco State "A" (DHL Work Order 0710125) contains the following information:

-	ITEM	Page
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•	Table of Contents	2
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•	Case Narrative	6
•	Work Order Summary	7
•	Preparation Dates Report	8
•	Analytical Dates Report	9
•	Sample Results	10
•	QC Summary Report	11-27
•	Total Number of Pages	27

October 18, 2007

Approved:

John DuPont



2300 Double Creek Drive • Round Rock, TX 78664 Phone (512) 388-8222 • FAX (512) 388-8229 № 29600

CHAIN-OF-CUSTODY

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		DHL DIS	POSAL	@ \$5.00	each (J R	eturn										HEF					1			DEL)					<u></u>		





Nichill No. 73651261

800.800.8984 www.lso.com

To: SAMPLE RECEIVING
DHL ANALYTICAL
2300 DOUBLE GREEK DRIVE
ROUND ROCK, TX 78664
(512) 388 - 8222

Service Type: By 10:30am 1D00V

QuickCode: DHL
Date Printed: 10/15/2007

From: MICHELLE GREEN

LARSON & ASSOCIATES, INC,

507 N MARIENFELD

SUITE 202 ₩ 👯

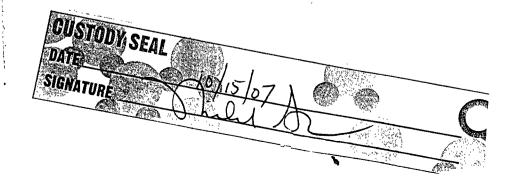
MIDLAND, TX 79701

(432) 687 - 0901

AUS

By 10:30am

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.





Client Name Larson & Associates

Sample Receipt Checklist

Date Received:

10/16/2007

Checklist completed by: Signature	Date Carrier name:	o·0	7	Reviewed	by / D/16/	, 07
	Carrier name:				1	
		Lone	<u>Star</u>			
Shipping container/cooler in good condition?		Yes	✓	No 🗆	Not Present	
Custody seals intact on shippping container/coo	oler?	Yes	V	No 🗌	Not Present	
Custody seals intact on sample bottles?		Yes		No 🗆	Not Present 🗸	
Chain of custody present?		Yes	Y	No 🗆		
Chain of custody signed when relinquished and	received?	Yes	✓	No 🗆		
Chain of custody agrees with sample labels?		Yes	✓	No 🗆		
Samples in proper container/bottle?		Yes	✓	No 🗆		
Sample containers intact?		Yes	Y	No 🗆		
Sufficient sample volume for indicated test?		Yes	✓	No 🗌		
All samples received within holding time?	•	Yes	\checkmark	No 🗆		
Container/Temp Blank temperature in complian	ce?	Yes	Y	No 🗆		
Water - VOA vials have zero headspace?		Ýes	✓	No 🗆	No VOA vials submitted	
Water - pH acceptable upon receipt?		Yes		No 🗆	Not Applicable	
	Adjusted?			Checked by	,	
Any No response must be detailed in the comm	ents section below.					
Client contacted	Date contacted:			P€	erson contacted	
Contacted by:	Regarding:					
Comments:						
				>		
Corrective Action						

Date: 18-Oct-07

CLIENT:

Larson & Associates

Project:

JHHC Frisco State "A"

Lab Order:

0710125

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method E300 - Anions Analysis

Method M2320 B (18th edition) - Alkalinity Analysis

Method SW8021B - Volatile Organics by GC Analysis

Method SW6020 - Metals Analysis

Method SW7470A - Mercury Analysis

Method M4500-H+ B (18th edition) - pH of a Water

Method M2540C (18th edition) - TDS Analysis

LOG IN

The sample was received and log-in performed on 10/16/07. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

METALS ANALYSIS

For Metals analysis performed on 10/16/07 the matrix spike and matrix spike duplicate recoveries above control limits for some analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

For Metals analysis performed on 10/16/07 and 10/17/07 the PDS recoveries were out of control limits for some analytes. These are flagged accordingly. The serial dilutions were within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

Date: 18-Oct-07

CLIENT:

Larson & Associates

Project:

JHHC Frisco State "A"

Lab Order:

0710125

Work Order Sample Summary

Lab Smp ID

Client Sample ID

Tag Number

Date Collected

Date Recved

0710125-01

TMW-1

10/15/07 09:40 AM

10/16/2007

Lab Order:

0710125

Client:

Larson & Associates

Project:

JHHC Frisco State "A"

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710125-01A	TMW-1	10/15/07 09:40 AM	Aqueous	SW5030B	Purge and Trap Water GC	10/16/07 09:59 AM	27567
0710125-01C	TMW-1	10/15/07 09:40 AM	Aqueous	SW3005A	Aq Prep Metals: Dissolved - 0.45μ Filter	10/16/07 01:50 PM	27555
•	TMW-1	10/15/07 09:40 AM	Aqueous	SW3005A	Aq Prep Metals: Dissolved - 0.45μ Filter	10/16/07 01:50 PM	27555
	TMW-1	10/15/07 09:40 AM	Aqueous	SW3005A	Aq Prep Metals: Dissolved - 0.45μ Filter	10/16/07 01:50 PM	27555
	TMW-1	10/15/07 09:40 AM	Aqueous	SW3005A	Aq Prep Metals: Dissolved - 0.45μ Filter	10/16/07 01:50 PM	27555
	TMW-1	10/15/07 09:40 AM	Aqueous	SW7470A	Mercury Aq Prep, Total	10/16/07 09:56 AM	27566
0710125-01E	TMW-1	10/15/07 09:40 AM	Aqueous	M2320 B	Alkalinity	10/16/07 12:56 PM	R34145
	TMW-1	10/15/07 09:40 AM	Aqueous	E300	Anions by IC method - Water	10/16/07	R34146
	TMW-1	10/15/07 09:40 AM	Aqueous	E300	Anions by IC method - Water	10/16/07	R34146
	TMW-1	10/15/07 09:40 AM	Aqueous	M4500-H+ B	pН	10/16/07 12:31 PM	R34144
	TMW-1	10/15/07 09:40 AM	Aqueous	M2540C	Total Dissolved Solids	10/16/07 02:10 PM	TDS_W-10/16/07

Lab Order:

0710125

Client:

Larson & Associates

Project:

JHHC Frisco State "A"

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710125-01A	TMW-1	Aqueous	SW8021B	Volatile Organics by GC	27567	1	10/16/07 01:48 PM	GC9_071016A
0710125-01C	TMW-1	Aqueous	SW 6020	Dissolved Metals-ICPMS (0.45 µ)	27555	1	10/16/07 11:37 PM	ICP-MS3_071016A
	TMW-1	Aqueous	SW 6020	Dissolved Metals-ICPMS (0.45 µ)	27555	10	10/16/07 10:39 PM	ICP-MS3_071016A
	TMW-1	Aqueous	SW 6020	Dissolved Metals-ICPMS (0.45 µ)	27555	1	10/17/07 10:15 PM	ICP-MS2_071017A
	TMW-1	Aqueous	SW 6020	Dissolved Metals-ICPMS (0.45 µ)	27555	10	10/17/07 09:19 PM	ICP-MS2_071017A
	TMW-1	Aqueous	SW7470A	Mercury Filtered (0.45μ)	27566	1	10/17/07 10:42 AM	CETAC_HG_071017 C
0710125-01E	TMW-1	Aqueous	M2320 B	Alkalinity	R34145	1	10/16/07 12:56 PM	TITRATOR_071016 B
	TMW-1	Aqueous	E300	Anions by IC method - Water	R34146	2	10/16/07 11:59 AM	IC2_071016A
	TMW-1	Aqueous	E300	Anions by IC method - Water	R34146	1	10/16/07 10:51 AM	IC2_071016A
	TMW-1	Aqueous	M4500-H+ B	pH	R34144	1	10/16/07 12:31 PM	TITRATOR_071016 A
	TMW-1	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/16/0	7 1	10/17/07 08:20 AM	WC_071016B

Date: 18-Oct-07

CLIENT: Larson & Associates

Project: JHHC Frisco State "A"

Project No: 7-0111 **Lab Order:** 0710125

Lab ID: 0710125-01

Client Sample ID: TMW-1

Collection Date: 10/15/07 09:40 AM

Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual U	hits	DF .	Date Analyzed
VOLATILE ORGANICS BY GC		SW8	021B	·	*.		Analyst: JAW
Benzene	ND	0.000800	0.00200	m	g/L	1	10/16/07 01:48 PM
Ethylbenzene	ND	0.00200	0.00600	m	g/L	1	10/16/07 01:48 PM
Toluene	ND	0.00200	0.00600		g/L	1	10/16/07 01:48 PM
Xylenes, Total	ND	0.00300	0.00900	m	g/L	1	10/16/07 01:48 PM
Surr: a,a,a-Trifluorotoluene	100	0	87-113	%	REC	1	10/16/07 01:48 PM
MERCURY FILTERED (0.45µ)		SW7	470A				Analyst: JCG
Mercury	ND	0.0000800	0.000200	m	g/L	1	10/17/07 10:42 AM
DISSOLVED METALS-ICPMS (0.45µ)		SW	6020				Analyst: KDT
Arsenic	0.0156	0.00200	0.00600	m	g/L	1	10/16/07 11:37 PM
Barium	0.0461	0.00300	0.0100	m	g/L	1	10/16/07 11:37 PM
Cadmium	ND	0.000300	0.00100	m	g/L	1	10/17/07 10:15 PM
Calcium	45.2	1.00	1.00	m	g/L	10	10/17/07 09:19 PM
Chromium	ND	0.00200	0.00600	m	g/L	1	10/16/07 11:37 PM
Lead	ND	0.000300	0.00100	m	g/L	1	10/16/07 11:37 PM
Magnesium	19.7	1.00	1.00	m	g/L	10	10/16/07 10:39 PM
Potassium	4.55	0.100	0.100	m	g/L	1	10/16/07 11:37 PM
Selenium	0.00608	0.00200	0.00600	m	g/L	1	10/16/07 11:37 PM
Silver	ND	0.00100	0.00200	m	g/L	1	10/17/07 10:15 PM
Sodium	83.4	1.00	1.00	m,	g/L	10	10/16/07 10:39 PM
ANIONS BY IC METHOD - WATER		E3	00				Analyst: JBC
Chloride	61.9	0.600	2.00	m	g/L	2	10/16/07 11:59 AM
Fluoride	3.21	0.100	0.400	m	g/L	1	10/16/07 10:51 AM
Nitrate-N	1.59	0.100	0.500	m	g/L	1	10/16/07 10:51 AM
Sulfate	92.0	1.00	3.00	m	g/L	1	10/16/07 10:51 AM
ALKALINITY		M23	20 B				Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	. 218	10.0	20.0	mį	g/L	1	10/16/07 12:56 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0	m	g/L	1	10/16/07 12:56 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0	m	g/L	1	10/16/07 12:56 PM
Alkalinity, Total (As CaCO3)	218	10.0	20.0	m	g/L	1	10/16/07 12:56 PM
PH		M450	0-H+ B				Analyst: JBC
pH	7.38	0	0	pł	H Units	1	10/16/07 12:31 PM
TOTAL DISSOLVED SOLIDS		M25	40C				Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	516	10.0	10.0	m	g/L	1	10/17/07 08:20 AM

Qual	lii	Пe	r
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- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits Page 1 of 1

Date: 18-Oct-07

CLIENT:

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC9_071016A

Sample ID LCS-27567	Batch ID:	27567		TestNo:	SW8	3021B		Units:	m g/l		
SampType: LCS	Run ID:		71016A		s Date: 10/1		29:40 A	Prep Date	_	6/2007	
				7 (1101) 51							
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qual
Benzene		0.0505	0.00200	0.0500	0	101	81	125			
Toluene		0.0516	0.00600	0.0500	0	103	84	123			
Ethylbenzene		0.0494	0.00600	0.0500	0	98.8	83	119			
Xylenes, Total		0.152	0.00900	0.150	0	101	81	117			
Surr: a,a,a-Trifluorotoluene		204		200.0		102	87	113			
Sample ID MB-27567	Batch ID:	27567		TestNo:	SW8	3021B		Units:	mg/l	<u> </u>	
SampType: MBLK	Run ID:	GC9_0	71016A	Analysi	s Date: 10/1	6/2007 11:4	46:49 A	Prep Date	: 10/1 (6/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.00200			_:					
Toluene		ND	0.00600								
Ethylbenzene		ND	0.00600								
Xylenes, Total		ND	0.00900								
Surr: a,a,a-Trifluorotoluene		199		200.0		99.3	87	113			
		-									
Sample ID 0710122-01AMS	Batch ID:	27567		TestNo:	SW8	3021B		Units:	mg/l	L	
Sample ID 0710122-01AMS SampType: MS	Batch ID: Run ID:		71016A		SW 8 s Date: 10/1		4:09 P	Units: Prep Date	_	L 6/2007	
			71016A RL						: 10/1	6/2007	Qual
SampType: MS		GC9_0		Analysi	s Date: 10/1	6/2007 1:14		Prep Date	: 10/1	6/2007	Qual
SampType: MS Analyte		GC9_0 Result	RL	Analysi SPK value	s Date: 10/1 Ref Val	6/2007 1:14 %REC	Low Lim	Prep Date	: 10/1	6/2007	Qual
SampType: MS Analyte Benzene		GC9_0 Result 0.0506	RL 0.00200	Analysi SPK value	s Date: 10/1 Ref Val	6/2007 1:14 %REC 101	Low Lim	Prep Date it HighLimit 125	: 10/1	6/2007	Qual
SampType: MS Analyte Benzene Toluene		GC9_0 Result 0.0506 0.0512	RL 0.00200 0.00600	Analysi SPK value 0.0500, 0.0500	s Date: 10/1 Ref Val 0 0	%REC 101 102	Low Lim 81 84	Prep Date it HighLimit 125 123	: 10/1	6/2007	Qual
SampType: MS Analyte Benzene Toluene Ethylbenzene		GC9_0 Result 0.0506 0.0512 0.0505	RL 0.00200 0.00600 0.00600	Analysi SPK value 0.0500 0.0500 0.0500	S Date: 10/1 Ref Val 0 0 0	%REC 101 102 101	81 84 83	Prep Date it HighLimit 125 123 119	: 10/1	6/2007	Qual
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total		GC9_0 Result 0.0506 0.0512 0.0505 0.154 203	RL 0.00200 0.00600 0.00600	Analysi SPK value 0.0500 0.0500 0.0500 0.150	S Date: 10/1 Ref Val 0 0 0 0	%REC 101 102 101 103	81 84 83 81	Prep Date it HighLimit 125 123 119 117	: 10/1	6/2007 RPDLimit	Qual
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene	Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567	RL 0.00200 0.00600 0.00600	Analysi SPK value 0.0500, 0.0500 0.0500 0.150 200.0 TestNo:	S Date: 10/1 Ref Val 0 0 0 0	6/2007 1:14 %REC 101 102 101 103 101 8021B	81 84 83 81 87	Prep Date it HighLimit 125 123 119 117 113	%RPD	6/2007 RPDLimit	Qual
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD	Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567	RL 0.00200 0.00600 0.00600 0.00900	Analysi SPK value 0.0500, 0.0500 0.0500 0.150 200.0 TestNo:	S Date: 10/1 Ref Val 0 0 0 0 Swa	6/2007 1:14 %REC 101 102 101 103 101 8021B	81 84 83 81 87	Prep Date it HighLimit 125 123 119 117 113 Units:	mg/	6/2007 RPDLimit L 6/2007	
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD SampType: MSD	Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567 GC9_0	RL 0.00200 0.00600 0.00600 0.00900	Analysi SPK value 0.0500, 0.0500 0.0500 0.150 200.0 TestNo: Analysi	Ref Val 0 0 0 0 0 swa	%REC 101 102 101 103 101 8021B 6/2007 1:3	81 84 83 81 87	Prep Date it HighLimit 125 123 119 117 113 Units: Prep Date	mg/	6/2007 RPDLimit L 6/2007	
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD SampType: MSD Analyte	Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567 GC9_0 Result	RL 0.00200 0.00600 0.00600 0.00900 71016A	Analysi SPK value 0.0500 0.0500 0.0500 0.150 200.0 TestNo: Analysi SPK value	S Date: 10/1 Ref Val 0 0 0 0 swa	6/2007 1:14 %REC 101 102 101 103 101 3021B 6/2007 1:3	81 84 83 81 87 1:17 P	Prep Date it HighLimit 125 123 119 117 113 Units: Prep Date it HighLimit	mg/ %RPD	RPDLimit L 6/2007 RPDLimit	
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD SampType: MSD Analyte Benzene	Run ID: Batch ID: Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567 GC9_0 Result 0.0491	RL 0.00200 0.00600 0.00600 0.00900 71016A RL 0.00200	Analysi SPK value 0.0500, 0.0500 0.0500 0.150 200.0 TestNo: Analysi SPK value 0.0500	S Date: 10/1 Ref Val 0 0 0 0 swa s Date: 10/1 Ref Val 0	6/2007 1:14 %REC 101 102 101 103 101 8021B 6/2007 1:3 %REC 98.2	81 84 83 81 87 1:17 P Low Lim	Prep Date it HighLimit 125 123 119 117 113 Units: Prep Date it HighLimit 125	mg/ e: 10/10 MRPD 3.92	RPDLimit L 6/2007 RPDLimit 20	
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD SampType: MSD Analyte Benzene Toluene	Run ID: Batch ID: Run ID:	Result 0.0506 0.0512 0.0505 0.154 203 27567 GC9_0 Result 0.0491 0.0496	71016A RL 0.00200 0.00600 0.00900	Analysi SPK value 0.0500 0.0500 0.150 200.0 TestNo: Analysi SPK value 0.0500 0.0500	S Date: 10/1 Ref Val 0 0 0 0 swa s Date: 10/1 Ref Val 0 0	6/2007 1:14 %REC 101 102 101 103 101 8021B 6/2007 1:3 %REC 98.2 99.2	81 84 83 81 87 1:17 P Low Lim 81	Prep Date it HighLimit 125 123 119 117 113 Units: Prep Date it HighLimit 125 123	mg/ %RPD mg/ e: 10/1 %RPD 2.92 3.26	RPDLimit L 6/2007 RPDLimit 20 20	
SampType: MS Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: a,a,a-Trifluorotoluene Sample ID 0710122-01AMSD SampType: MSD Analyte Benzene Toluene Ethylbenzene	Run ID: Batch ID: Run ID:	GC9_0 Result 0.0506 0.0512 0.0505 0.154 203 27567 GC9_0 Result 0.0491 0.0496 0.0483	RL 0.00200 0.00600 0.00600 0.00900 71016A RL 0.00200 0.00600 0.00600	Analysi SPK value 0.0500 0.0500 0.0500 0.150 200.0 TestNo: Analysi SPK value 0.0500 0.0500 0.0500	S Date: 10/1 Ref Val 0 0 0 0 SW8 Is Date: 10/1 Ref Val 0 0 0	6/2007 1:14 %REC 101 102 101 103 101 8021B 6/2007 1:3 %REC 98.2 99.2 96.6	81 84 83 81 87 1:17 P Low Lim 81 84 83	Prep Date it HighLimit 125 123 119 117 113 Units: Prep Date it HighLimit 125 123 119	mg/ e: 10/1 %RPD 2.92 3.26 4.35	6/2007 RPDLimit L 6/2007 RPDLimit 20 20 20	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

t Page 1 of 17

R RPD outside accepted control limits

S Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

GC9_071016A

Sample ID ICV-071016	Batch ID:	R34147	7	TestNo:	SW8	021B		Units:	mg/L	
SampType: ICV	Run ID:	GC9_0	71016A	Analysis	Date: 10/1	6/2007 11:	12:30 A	Prep Date	e:	
Analyte		Result	RL.	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD RPDLimit	Qual
Benzene		0.0976	0.00200	0.100	0	97.6	85	115		
Toluene		0.102	0.00600	0.100	0	102	85	115		
Ethylbenzene		0.0982	0.00600	0.100	0	98.2	85	115		
Xylenes, Total		0.300	0.00900	0.300	0	100	85	115		
Surr: a,a,a-Trifluorotoluene		205		200.0	_	103	87	113		
Sample ID CCV1-071016	Batch ID:	R34147	7	TestNo:	SW8	021B	*****	Units:	mg/L	
i								D D. 4 .		
SampType: CCV	Run ID:	GC9_()71016A	Analysis	Date: 10/1	6/2007 2:48	3:18 P	Prep Date	5.	
SampType: CCV Analyte		GC9_0 Result	71016A RL	Analysis SPK value	Date: 10/1 Ref Val	6/2007 2:48 %REC			%RPD RPDLimit	Qual
										Qual
Analyte	!	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit		Qual
Analyte Benzene		Result 0.0491	RL 0.00200	SPK value	Ref Val	%REC 98.1	Low Limit	HighLimit		Qual
Analyte Benzene Toluene		Result 0.0491 0.0499	RL 0.00200 0.00600	SPK value 0.0500 0.0500	Ref Val 0 0	%REC 98.1 99.9	Low Limit 85 85	HighLimit 115 115		Qual

Qualifiers:

В

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

Page 2 of 17

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

CETAC_HG_071017C

Sample ID	MB-27566	Batch ID:	27566		TestNo:	sw	7470A		Units:	m g/	L	
SampType:	MBLK	Run ID:	CETAC	_HG_0710170	Analysis	Date: 10/ 1	17/2007 10:3	4:00 A	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qua
Mercury			ND	0.000200								
Sample ID	LCS-27566	Batch ID:	27566		TestNo:	sw	7470A		Units:	m g/	'L	
SampType:	LCS	Run ID:	CETAC	_HG_0710170	Analysis	Date: 10/	17/2007 10:3	6:00 A	Prep Date	e: 10/ 1	6/2007	
Analyte		-	Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qua
Mercury			0.00203	0.000200	0.00200	0	102	85	115			
Sample ID	LCSD-27566	Batch ID:	27566		TestNo:	sw	7470A		Units:	m g	'L	
SampType:	LCSD	Run ID:	CETAC	_HG_0710170	Analysis	Date: 10/	17/2007 10:3	8:00 A	Prep Date	e: 10/ 1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qua
Mercury			0.00203	0.000200	0.00200	0	102	85	115	, 0	15	
Sample ID	0710126-01B MS	Batch ID:	27566		TestNo:	SW	7470A		Units:	m g.	/L	
SampType:	MS	Run ID:	CETAC	_HG_0710170	2 Analysis	Date: 10 /	17/2007 10:4	16:00 A	Prep Date	e: 10/ 1	16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qua
Mercury			0.0198	0.00200	0.0200	0	99.0	80	120			
Sample ID	0710126-01B MSD	Batch ID:	27566		TestNo:	SW	7470A		Units:	m g.	/L	
SampType:	MSD	Run ID:	CETAC	_HG_0710170	C Analysis	Date: 10/	17/2007 10:4	A 00:84	Prep Date	e: 10/ 1	16/2007	
Analyte			Result	RL.	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qua
Mercury			0.0201	0.00200	0.0200	0	101	80	120	1.50	15	
Sample ID	0710126-01B PDS	Batch ID:	27566		TestNo:	sw	7470A		Units:	mg	/L	•
SampType:	PDS	Run ID:	CETAC	_HG_0710170	C Analysis	Date: 10/	17/2007 10:	50:00 A	Prep Date	e: 10/ ′	16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qua
Mercury			0.0243	0.00200	0.0250	0	97.2	85	115			
Comple ID	0710126-01B SD	Batch ID:	27566	A - A - A - A - A - A - A - A - A - A -	TestNo:	SW	7470A		Units:	mg	/L	
Sample in					A	Doto: 40/	47/2007 40.6	52·00 A	Prep Date	e: 10/ °	16/2007	
SampType:	SD	Run ID:	CETAC	_HG_0710170	Analysis	bale. Iui	17/2007 10:	72.00 A	1.op Date		10/2007	
· ·	SD	Run ID:	Result	RL	SPK value	Ref Val	%REC		it HighLimit			Qua

Qualifiers:

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RLReporting Limit

Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

CETAC_HG_071017C

Sample ID ICV-071017	Batch ID:	R34165		TestNo:	sw	7470A		Units:	mg/L	
SampType: ICV	Run ID:	CETAC	_HG_0710170	Analysis	s Date: 10/	17/2007 10:	30:00 A	Prep Date	э:	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD RPDLimit	Qual
Mercury	0	.00408	0.000200	0.00400	0	102	90	110		
Sample ID CCV-071017	Batch ID:	R34165		TestNo:	SW	7470A		Units:	mg/L	
SampType: CCV	Run ID:	CETAC	_HG_0710170	Analysis	S Date: 10/	17/2007 10:	54:00 A	Prep Date	e:	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD RPDLimit	Qual
Mercury	0	.00210	0.000200	0.00200	0	105	90	110		

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS2 071017A

Analyte	Project:	JHHC Frisc	o State "A	A.,				Kunii); I(CP-1V152_	0/101	. / A.	
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Outs Calcium ND 0.00100 Calcium ND 0.00200 Silver ND 0.00200 Sample D FILTER BLANK-275 Batch ID: 27555 TestNo: SW6020 Units: mg/L Sample D FILTER BLANK-275 Batch ID: 27555 TestNo: SW6020 Units: mg/L Sample D FILTER BLANK-275 Batch ID: 27555 TestNo: SW6020 Units: mg/L Caddrium ND 0.00100 Calcium ND 0.00200 Silver RD ND 0.00100 Calcium ND 0.100 Silver ND 0.100 Silver ND 0.00200 Sample D LCS-27555 Batch ID: 27555 TestNo: SW6020 Units: mg/L Sample D LCS-27555 Batch ID: 10P-MS2_071017A Analysis Date: 10/11/1/2007 10:09:09 P Prep Date: 10/16/2007 Analyte Result Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Caddrium 0.198 0.00200 Calcium 0.198 0.00200 0.200 0.99.0 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.198 0.00200 0.200 0.99.1 80 120 Calcium 0.00200 0.000 0.99.1 80 120 Calcium 0.00200 0.000 0.99.1 80 120 Calcium 0.00200 0.000 0.99.1 80 120 Calcium 0.00200 0.000 0.000 0.99.1 80 120 Calcium 0.00200 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Sample ID M	/I B-27555	Batch ID:	27555		TestNo:	SW60	020	1 111	Units:	mg/L		
Cadrium	SampType: M	/IBLK	Run ID:	ICP-MS2_	071017A	Analysis	Date: 10/17	/2007 9:56	6:00 P	Prep Date:	10/16	/2007	
Calcium	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	: HighLimit '	%RPD F	RPDLimit	Qual
Sample ID FILTER BLANK-275 Batch ID 27555 TestNo: SW6020 Units: mg/L SampType: MBLK Run ID ICP-MS2_071017A Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:00:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:00:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:00:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:00:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:00:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:	Cadmium			ND	0.00100			······································					
Sample ID FILTER BLANK-275 Batch ID: 1CP-MS2_071017A Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:01:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analysis Date: 10/17/2007 10:20:00 P	Calcium												
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quadrium ND 0.00100 ND 0.100 ND 0.00200 ND 0.	Silver			ND	0.00200								
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Cadmium ND 0.00100 ND 0.00200 Silver ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND 0.00200 ND ND ND 0.00200 ND ND ND 0.00200 ND ND ND 0.00200 ND ND ND 0.00200 ND ND ND 0.00200 ND ND ND ND 0.00200 ND ND ND ND ND 0.00200 ND ND ND ND ND ND 0.00200 ND ND ND ND ND ND ND ND ND ND ND ND ND	Sample ID Fi	FILTER BLANK-275	Batch ID:	27555		TestNo:	SW60	020		Units:	mg/L		
Cadmium	SampType: M	#BLK	Run ID:	ICP-MS2_	071017A	Analysis	Date: 10/17	//2007 10:0	1:00 P	Prep Date:	10/16	/2007	
Calcium ND	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	: HighLimit '	%RPD F	RPDLimit	Qual
Sample ID LCS-27555 Batch ID 27555 TestNo: SW6020 Units: mg/L SampType: LCS Run ID ICP-MS2_071017A Analysis Date: 10/17/2007 10:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua Cadmium 0.198 0.00100 0.200 0 95.8 80 120 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 99.1 80 120 Sliver 0.198 0.00200 0.200 0 101 80 120 Sliver 0.203 0.00100 0.200 0 101 80 120 Sliver 0.203 0.00100 0.200 0 101 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 103 80 120 Sliver 0.205 0.00200 0.200 0 0 0 0 0 0 0 0 0	Cadmium			ND	0.00100		,						
Sample ID LCS-27555 Batch ID: 27555 TestNo: SW6020 Units: mg/L	Calcium												
Analyte Result RL SPK value Ref Val WREC Low Limit HighLimit WRPD RPDLimit Qual Cadmium Qual Qu	Silver			ND	0.00200								
Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Cadmium 0.198 0.00100 0.200 0 99.0 80 120 5.00 0 95.8 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 99.1 80 120 5.00 0 101 6.00 0	Sample ID L	.CS-27555	Batch ID:	27555		TestNo:	SW60	020		Units:	mg/L		
Cadmium 0.198 0.00100 0.200 0 99.0 80 120 Calcium 4.79 0.100 5.00 0 95.8 80 120 Silver 0.198 0.00200 0.200 0 99.1 80 120 Sample ID LCSD-27555 Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: LCSD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:10:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quadcantium Cadmium 0.203 0.00100 0.200 0 104 80 120 2.34 15 Sample ID 0.710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte <td>SampType: L</td> <td>.cs</td> <td>Run ID:</td> <td>ICP-MS2_</td> <td>071017A</td> <td>Analysis</td> <td>s Date: 10/17</td> <td>//2007 10:0</td> <td>06:00 P</td> <td>Prep Date:</td> <td>10/16</td> <td>/2007</td> <td></td>	SampType: L	.cs	Run ID:	ICP-MS2_	071017A	Analysis	s Date: 10/17	//2007 10:0	06:00 P	Prep Date:	10/16	/2007	
Calcium	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit '	%RPD F	RPDLimit	Qual
Sample D LCSD-27555 Batch D: 27555 TestNo: SW6020 Units: mg/L	Cadmium			0.198	0.00100	0.200	0	99.0	80	120			
Sample D LCSD-27555 Batch D: 27555 TestNo: SW6020 Units: mg/L	Calcium				0.100	5.00	0	95.8	80	120		•	
Rank Result R. SPK value Ref Val WREC Low Limit High Limit WRPD RP	Silver			0.198	0.00200	0.200	0	99.1	80	120			
Analyte Result RL SPK value Ref Val %REC Low Limit High Limit %RPD RPDLimit Qual Cadmium 0.203 0.00100 0.200 0 101 80 120 2.34 15 Calcium 5.19 0.100 5.00 0 104 80 120 8.07 15 Silver 0.205 0.00200 0.200 0 103 80 120 3.42 15 Sample ID 0710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit High Limit %RPD RPDLimit Qual Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 0 10 Silver 0 0.0100 0 0 0 10 Silver 0 0.0100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sample ID L	CSD-27555	Batch ID:	27555		TestNo:	SW60	020		Units:	mg/L		
Cadmium 0.203 0.00100 0.200 0 101 80 120 2.34 15 Calcium 5.19 0.100 5.00 0 104 80 120 8.07 15 Silver 0.205 0.00200 0.200 0 103 80 120 3.42 15 Sample ID 0710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 0 0 10 Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType	SampType: L	CSD	Run ID:	ICP-MS2_	071017A	Analysi	s Date: 10/17	7/2007 10: 1	10:00 P	Prep Date:	10/16	/2007	
Calcium 5.19 0.100 5.00 0 104 80 120 8.07 15 Silver 0.205 0.00200 0.200 0 103 80 120 3.42 15 Sample ID 0710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Cadmium 0 0.00500 0 0 4.65 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD F	RPDLimit	Qual
Silver 0.205 0.00200 0.200 0 103 80 120 3.42 15 Sample ID 0710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Cadmium 0 0.00500 0 0 0 10 10 0 10 10 10 10 10 10 10 10	Cadmium			0.203	0.00100	0.200	0	101	80	120	2.34	15	
Sample ID 0710125-01C SD Batch ID: 27555 TestNo: SW6020 Units: m g/L SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Cadmium 0 0.00500 0 0 0 10 Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 Units: mg/L Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality	Calcium				0.100	5.00	0	104	80	120	8.07	15	
SampType: SD Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:20:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Cadmium 0 0.00500 0 0 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 0 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td< td=""><td>Silver</td><td></td><td></td><td>0.205</td><td>0.00200</td><td>0.200</td><td>0</td><td>103</td><td>80</td><td>120</td><td>3.42</td><td>15</td><td></td></td<>	Silver			0.205	0.00200	0.200	0	103	80	120	3.42	15	
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Cadmium 0 0.00500 0 0 0 0 0 10 Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 0 0 10 Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual	Sample ID 0	710125-01C SD	Batch ID:	27555		TestNo:	SW60	020		Units:	mg/L	•	
Cadmium 0 0.00500 0 0 10 Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 0 10 Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: m g/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	SampType: S	SD	Run ID:	ICP-MS2_	071017A	Analysis	s Date: 10/17	//2007 10:2	20:00 P	Prep Date:	10/16	/2007	
Calcium 48.2 0.500 0 46.0 4.65 10 Silver 0 0.0100 0 0 0 10 Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD F	RPDLimit	Qual
Silver 0 0.0100 0 0 10 Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: m g/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	Cadmium			0	0.00500	0	0	_			0	10	
Sample ID 0710125-01C MS Batch ID: 27555 TestNo: SW6020 Units: mg/L SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	Calcium			48.2	0.500	0	46.0				4.65	10	
SampType: MS Run ID: ICP-MS2_071017A Analysis Date: 10/17/2007 10:25:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	Silver			0	0.0100	0	0				0	10	
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qua	Sample ID 0	710125-01C MS	Batch ID:	27555		TestNo:	SW60	020		Units:	mg/L		
	SampType: M	IS	Run ID:	ICP-MS2_	071017A	Analysis	Date: 10/17	//2007 10:2	25:00 P	Prep Date:	10/16	/2007	
Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor	Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD F	RPDLimit	Qual
	Oualifiers:	B Analyte dete	ected in the	associated N	lethod Blan	ık DF D	ilution Facto	ır					

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS2_071017A

Sample ID	0710125-01C MS	Batch ID:	27555		TestNo:	SW	6020		Units:	mg/	L	
SampType:	MS	Run ID:	ICP-MS2	_071017A	Analysis 	Date: 10/	17/2007 10:2	5:00 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qual
Cadmium			0.201	0.00100	0.200	0	101	80	120			
Calcium			51.9	0.100	5.00	46.0	117	80	120			
Silver			0.212	0.00200	0.200	0	106	80	120			
Sample ID	0710125-01C MSD	Batch ID:	27555		TestNo:	SW	/6020		Units:	mg/	L	
SampType:	MSD	Run ID:	ICP-MS2	_071017A	Analysis	Date: 10/	17/2007 10:2	9:00 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qual
Cadmium			0.201	0.00100	0.200	0	100	80	120	0.299	15	
Calcium			51.4	0.100	5.00	46.0	107	80	120	0.949	15	
Silver			0.202	0.00200	0.200	0	101	80	120	4.89	15	
Sample ID	0710125-01C PDS	Batch ID:	27555	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TestNo:	SW	/6020		Units:	mg/	L	
SampType:	PDS	Run ID:	ICP-MS2	_071017A	Analysis	Date: 10/	17/2007 10:3	4:00 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qual
Cadmium			0.187	0.00100	0.200	0	93.6	75	125			
Calcium			48.4	0.100	5.00	46.0	47.4	75	125			S
Silver			0.192	0.00200	0.200	0	96.2	75	125			

Qualifiers:

В

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS2_071017A

1 Toject.	JIIICIA										
Sample ID	ICV2-071017	Batch ID:	R34180		TestNo:	SW	6020		Units:	mg/L	
SampType:	ICV	Run ID:	ICP-MS2	2_071017A	Analysi	s Date: 10/1	7/2007 4:27	7:00 P	Prep Date	: :	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD RPDLimit	Qual
Cadmium			0.0988	0.00100	0.100	0	98.8	90	110		
Calcium			2.41	0.100	2.50	0	96.3	90	110		
Silver			0.0996	0.00200	0.100	0	99.6	90	110		
Sample ID	CCV8-071017	Batch ID:	R34180		TestNo:	SW	6020		Units:	mg/L	
SampType:	CCV	Run ID:	ICP-MS2	2_071017A	Analysi	s Date: 10/1	7/2007 8:56	6:00 P	Prep Date	e :	
Analyte			Result	RL.	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD RPDLimit	Quai
Analyte											
Calcium			4.85	0.100	5.00	0	97.0	90	110	· · · · · · · · · · · · · · · · · · ·	
	CCV9-071017	Batch ID:	4.85 R34180	0.100	5.00 TestNo:	0 SW 6		90	110 Units:	mg/L	
Calcium		Batch ID:	R34180	0.100 2_071017A	TestNo:		5020			_	
Calcium Sample ID			R34180		TestNo:	SW	5020	8:00 P	Units: Prep Date	_	Qual
Calcium Sample ID SampType:			R34180 ICP-MS2	2_071017A	TestNo: Analysi	SW 6 s Date: 10/1	5020 7/2007 9:38	8:00 P	Units: Prep Date	e: 	Qual
Calcium Sample ID SampType: Analyte			R34180 ICP-MS2	2_071017 A RL	TestNo: Analysis	SW6 s Date: 10/1 Ref Val	6020 7/2007 9:38 %REC	3:00 P Low Limit	Units: Prep Date t HighLimit	e: 	Qual
Calcium Sample ID SampType: Analyte Cadmium			R34180 ICP-MS2 Result 0.194	2_071017A RL 0.00100	TestNo: Analysis SPK value 0.200	SW6 s Date: 10/1 Ref Val	6020 7/2007 9:38 %REC 96.9	8:00 P Low Limit	Units: Prep Date t HighLimit	e: 	Qual
Calcium Sample ID SampType: Analyte Cadmium Calcium			R34180 ICP-MS2 Result 0.194 4.76 0.196	2_071017A RL 0.00100 0.100	TestNo: Analysis SPK value 0.200 5.00	SW6 s Date: 10/1 Ref Val 0 0	6020 7/2007 9:38 %REC 96.9 95.2	B:00 P Low Limit 90 90	Units: Prep Date t HighLimit 110 110	e: 	Qual
Calcium Sample ID SampType: Analyte Cadmium Calcium Silver	CCV10-071017	Run ID:	R34180 ICP-MS2 Result 0.194 4.76 0.196 R34180	2_071017A RL 0.00100 0.100	TestNo: Analysis SPK value 0.200 5.00 0.200 TestNo:	SW6 s Date: 10/1 Ref Val 0 0	%REC 96.9 95.2 98.0	3:00 P Low Limit 90 90 90	Units: Prep Date t HighLimit 110 110 110	e: %RPD RPDLimit mg/L	Qual
Calcium Sample ID SampType: Analyte Cadmium Calcium Silver Sample ID	CCV10-071017	Run ID:	R34180 ICP-MS2 Result 0.194 4.76 0.196 R34180	2_071017A FL 0.00100 0.100 0.00200	TestNo: Analysis SPK value 0.200 5.00 0.200 TestNo:	SW6 s Date: 10/1 Ref Val 0 0 0 SW6	%REC 96.9 95.2 98.0	3:00 P Low Limit 90 90 90 90	Units: Prep Date t HighLimit 110 110 110 Units: Prep Date	e: %RPD RPDLimit mg/L	
Calcium Sample ID SampType: Analyte Cadmium Calcium Silver Sample ID SampType:	CCV10-071017	Run ID:	R34180 ICP-MS2 Result 0.194 4.76 0.196 R34180 ICP-MS2	2_071017A RL 0.00100 0.100 0.00200 2_071017A	TestNo: Analysis SPK value 0.200 5.00 0.200 TestNo: Analysis	SW6 S Date: 10/1 Ref Val 0 0 0 SW6 S Date: 10/1	96.9 95.2 98.0 7/2007 10:4	3:00 P Low Limit 90 90 90 90	Units: Prep Date t HighLimit 110 110 110 Units: Prep Date	mg/L	
Calcium Sample ID SampType: Analyte Cadmium Calcium Silver Sample ID SampType: Analyte	CCV10-071017	Run ID:	R34180 ICP-MS2 Result 0.194 4.76 0.196 R34180 ICP-MS2	2_071017A RL 0.00100 0.100 0.00200 2_071017A RL	TestNo: Analysis SPK value 0.200 5.00 0.200 TestNo: Analysis	SW6 s Date: 10/1 Ref Val 0 0 0 SW6 s Date: 10/1 Ref Val	6020 7/2007 9:38 %REC 96.9 95.2 98.0 6020 7/2007 10:4	3:00 P Low Limit 90 90 90 43:00 P Low Limit	Units: Prep Date t HighLimit 110 110 110 Units: Prep Date t HighLimit	mg/L	

Qualifiers:

В

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

Reporting Limit

Parameter not NELAC certified

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS3_071016A

Sample ID	MB-27555	Batch ID:	27555		TestNo:				Units:	mg/L	
SampType:	MBLK	Run ID:	ICP-MS3	_071016A	Analysis	s Date: 10/1	6/2007 11:1	4:00 P	Prep Date	10/16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD RPDLimit	Qua
Arsenic			ND	0.00600							
Barium			ND	0.0100							
Chromium			ND	0.00600							
Lead			ND	0.00100							
Magnesium			ND	0.100							
Potassium			ND	0.100							
Selenium		٠	ND	0.00600							
Sodium			ND	0.100							
Sample ID	FILTER BLANK-275	Batch ID:	27555		TestNo:	SWe	6020	-	Units:	mg/L	
SampType:	MBLK	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 11:1	19:00 P	Prep Date	: 10/16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD RPDLimit	t Qua
Arsenic			ND	0.00600							
Barium			ND	0.0100						,	
Chromium			ND	0.00600							
Lead			ND	0.00100							
Magnesium			ND	0.100							
Potassium		•	ND	0.100							
Selenium			ND	0.00600							
Sodium			ND	0.100							
Sample ID	LCS-27555	Batch ID:	27555		TestNo:	SWe	5020		Units:	mg/L	
SampType:	LCS	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 11:2	23:00 P	Prep Date	: 10/16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimi	t Qua
Arsenic		_	0.189	0.00600	0.200	0	94.6	80	120		
Barium	5		0.197	0.0100	0.200	0	98.5	80	120		
Chromium			0.200	0.00600	0.200	0	99.8	80	120		
Lead			0.204	0.00100	0.200	0	102	80	120		
Magnesium	•		4.75	0.100	5.00	0	94.9	80	120		
Potassium			4.82	0.100	5.00	0	96.4	80	120		
Selenium			0.194	0.00600	0.200	0	96.8	80	120	v	
Sodium			4.80	0.100	5.00	0	96.0	80	120		
Sample ID	LCSD-27555	Batch ID:	27555		TestNo:	SW	6020		Units:	mg/L	
SampType:	LCSD	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 11:2	28:00 P	Prep Date	e: 10/16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLim	it Qua
Arsenic			0.193	0.00600	0.200	0	96.5	80	120	1.94 15	
Qualifiers	•	ected betwe	associated I en MDL and ethod Detect	l RL	MDL N	Dilution Fact Method Dete Method Dete	ection Limit		ts	Page 8 o	of 17

Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS3_071016A

Sample ID	LCSD-27555	Batch ID:	27555		TestNo	: SW6	6020		Units:	m g/	Ľ	
SampType:	LCSD	Run ID:	ICP-MS3	_071016A	Analys	is Date: 10/1	6/2007 11:2	28:00 P	Prep Date	e: 10/1	6/2007	
Analyte			Result	RL /	SPK value	Ref Val	%REC	Low Limi	it HighLimit	%RPD	RPDLimit	Qua
Barium			0.202	0.0100	0.200	0 .	101	80	120	2.26	15	
Chromium			0.202	0.00600	0.200	0	101	80	120	1.39	15	
Lead			0.208	0.00100	0.200	0	104	80	120	2.04	15	
Magnesium			4.88	0.100	5.00	0	97.5	80	120	2.70	15	
Potassium			4.92	0.100	5.00	0	98.3	80	120	1.95	15	
Selenium			0.195	0.00600	0.200	0	97.7	80	120	0.874	. 15	
Sodium			4.88	0.100	5.00	0	97.6	80	120	1.74	15	
Sample ID	0710125-01C SD	Batch ID:	27555		TestNo	: SW6	6020		Units:	m g/	'L	
SampType:	SD	Run ID:	ICP-MS3	_071016A	Analys	is Date: 10/1	6/2007 11:4	11:00 P	Prep Date	e: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qu
Arsenic			0.0164	0.0300	0	0.0156	•			4.85	10	
Barium			0.0490	0.0500	0	0.0461				6.03	10	
Chromium			0	0.0300	0	0				0	10	
Lead			0	0.00500	0	0				0	10	
Magnesium			19.5	0.500	0	18.3				6.58	10	
Potassium			4.78	0.500	0	4.55				4.85	10	
Selenium			0	0.0300	0	0.00608				0	10	
Sodium			83.3	0.500	0	81.1				2.68	10	
Sample ID	0710125-01C MS	Batch ID:	27555	• • • • • • • • • • • • • • • • • • • •	TestNo	: SW6	6020		Units:	m g	/L	
SampType:	MS	Run ID:	ICP-MS3	_071016A	Analys	is Date: 10/1	6/2007 11:4	46:00 P	Prep Date	e: 10/ 1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qu
Arsenic			0.206	0.00600	0.200	0	103	80	120			
Barium			0.253	0.0100	0.200	0	127	80	120			S
Chromium			0.200	0.00600	0.200	0	100	80	120			
Lead			0.212	0.00100	0.200	0	106	80	120			
Magnesium			23.3	0.100	5.00	0	466	80	120			S
Potassium			9.42	0.100	5.00	0	188	80	120		•	S
Selenium			0.190	0.00600	0.200	0	95.0	80	120			
Sodium			88.0 	0.100	5.00	0	1760	80	120			S
	0710125-01C MSD				TestNo		6020		Units:	mg		
SampType:	MSD	Run ID:	ICP-MS3	_071016A	Analys	is Date: 10/1	6/2007 11:	50:00 P	Prep Date	e: 10 /	16/2007	
Analyte	· · · · · · · · · · · · · · · · · · ·		Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qu
			0.207	0.00600	0.200	0	103	80	120	0.096	9 15	
Arsenic							400					_
Arsenic Barium			0.252	0.0100	0.200	0	126	.80	120	0.356	6 15	

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

R RPD outside accepted control limits

S Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS3_071016A

Sample ID	0710125-01C MSD	Batch ID:	27555		TestNo	: SW6	020		Units:	mg/	L	
SampType:	MSD	Run ID:	ICP-MS3	3_07 ¹ 016A	Analys	is Date: 10/1	6/2007 11:5	60:00 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium			0.199	0.00600	0.200	0	99.3	80	120	0.702	15	
Lead			0.212	0.00100	0.200	0	106	80	120	0.377	15	
Magnesium	•		22.8	0.100	5.00	0	456	80	120	2.17	15	S
Potassium			9.30	0.100	5.00	0	186	80	120	1.25	15	S
Selenium			0.191	0.00600	0.200	0	95.6	80	120	0.682	15	
Sodium			86.2	0.100	5.00	0	1720	80	120	2.08	15	S
Sample ID	0710125-01C PDS	Batch ID:	27555		TestNo	: SW6	020		Units:	mg/	L	
SampType:	PDS	Run ID:	ICP-MS3	3_071016A	Analys	is Date: 10/1	6/2007 11:5	55:00 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic			0.196	0.00600	0.200	0	- 98.2	75	125			
Barium			0.237	0.0100	0.200	0	119	75	125			
Chromium			0.188	0.00600	0.200	0	, 93.8	75	125			
Lead			0.202	0.00100	0.200	0	101	75	125			
Magnesium			21.8	0.100	5.00	0	436	75	125			S
Potassium			8.84	0.100	5.00	0	177	75	125			S
Selenium			0.182	0.00600	0.200	0	91.2	75	125			
Sodium			82.6	0.100	5.00	0	1650	75	125			S

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

R D outside accepted control mints

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS3_071016A

Sample ID	ICV2-071016	Batch ID:	R34169		TestNo:	SW6	020		Units:	m g	'L	
SampType:	ICV	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 5:57	:00 P	Prep Date): 		
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qua
Arsenic		,	0.0996	0.00600	0.100	0	99.6	90	110			
Barium			0.104	0.0100	0.100	0	104	90	110			
Chromium			0.104	0.00600	0.100	0	104	90	110			
Lead			0.109	0.00100	0.100	0	109	90	110			
Magnesium			2.48	0.100	2.50	0	99.4	90	110			
Potassium			2.47	0.100	2.50	0	98.8	90	110			
Selenium	1		0.0985	0.00600	0.100	0	98.5	90	110			
Sodium			2.55	0.100	2.50	0	102	90	110			
Sample ID	CCV7-071016	Batch ID:	R34169		TestNo:	SW6	6020		Units:	m g.	/L	
SampType:	CCV	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 10:0	4:00 P	Prep Date) :		
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qua
Magnesium			4.80	0.100	5.00	0	96.1	90	110			
Sodium			4.81	0.100	5.00	0	96.2	90	110			
Sample ID	CCV8-071016	Batch ID:	R34169		TestNo:	SWe	6020		Units:	m g.	/L	
SampType:	CCV	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	6/2007 11:0	1:00 P	Prep Date	e:		
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qua
Arsenic			0.191	0.00600	0.200	0	95.4	90	110			
Barium			0.199	0.0100	0.200	0	99.3	90	110			
Chromium			0.199	0.00600	0.200	0	99.6	90	110			
Lead			0.206	0.00100	0.200	0	103	90	110			
Magnesium			4.83	0.100	5.00	0	96.7	90	110			
Potassium			4.83	0.100	5.00	0	96.6	90	110			
Selenium			0.196	0.00600	0.200	0	97.8	90	110			
Sodium			4.88	0.100	5.00	0	97.6	90	110	·····		
Sample ID	CCV9-071016	Batch ID:	R34169		TestNo:	SWe	6020		Units:	mg	/L	
SampType:	CCV	Run ID:	ICP-MS3	_071016A	Analysi	s Date: 10/1	7/2007 12:0	3:00 A	Prep Date	e:		
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qua
Arsenic			0.189	0.00600	0.200	0	94.4	90	110			
Barium			0.198	0.0100	0.200	0	98.9	90	110			
Chromium			0.199	0.00600	0.200	0	99.7	90	110			
Lead			0.202	0.00100	0.200	0	101	90	110			
Magnesium			4.83	0.100	5.00	0	96.6	90	110			
Potassium			4.85	0.100	5.00	0	97.0	90	110			
i otaooiaiii						•						

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

tection Limit Page 11 of 17

- R RPD outside accepted control limits
- S Spike Recovery outside control limits

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

ICP-MS3_071016A

Sample ID	CCV9-071016	Batch ID:	R34169		TestNo): \$	SW6020		Units:	mg	ľL	
SampType	CCV	Run ID:	ICP-MS3	_071016A	Analys	is Date: 1	10/17/2007 12:0	3:00 A	Prep Date):		
Analyte			Result	RL	SPK value	Ref Va	al %REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Sodium			4.88	0.100	5.00	0	97.5	90	110			

Qualifiers:

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

IC2_071016A

SampType: IO Analyte Chloride Fluoride	cv ——————	Run ID:										
Chloride			IC2_07101	6A	Analysis	Date: 10/16/	2007 9:40):24 A	Prep Date	10/1	6/2007	
			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qual
Eluarida	•		25.2	1.00	25.00	0	101	90	110			
			10.7	0.400	10.00	0	107	90	110			
Nitrate-N			12.8	0.500	12.50	0	103	90	110			
Sulfate			77.3	3.00	75.00	0	103	90	110			
Sample ID IV	MB-071016	Batch ID:	R34146		TestNo:	E300			Units:	mg/	L	
SampType: N	MBLK 	Run ID:	IC2_07101	6A 	Analysis	Date: 10/16/	2007 10:0	7:28 A	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qual
Chloride .			ND	1.00								
Fluoride			ND .	0.400								
Nitrate-N			ND	0.500								
Sulfate			ND	3.00								
Sample ID L	LCS-071016	Batch ID:	R34146		TestNo:	E300			Units:	mg/	L	
SampType: L	LCS	Run ID:	IC2_07101	6A	Analysis	Date: 10/16/	2007 10:2	22:08 A	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD	RPDLimit	Qual
Chloride			9.97	1.00	10.00	0	99.7	90	110			
Fluoride			4.18	0.400	4.000	0	104	90	110			
Nitrate-N			4.98	0.500	5.000	0	99.6	90	110			
Sulfate			30.7	3.00	30.00	0	102	90	110			
Sample ID L	LCSD-071016	Batch ID:	R34146		TestNo:	E300			Units:	m g	'L	
SampType: L	LCSD	Run ID:	IC2_07101	6A	Analysis	Date: 10/16/	2007 10:3	36:48 A	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	t HighLimit	%RPD	RPDLimit	Qual
Chloride			10.0	1.00	10.00	0	100	90	110	0.253	20	
Fluoride			4.18	0.400	4.000	0	104	90	110	0.052		
Nitrate-N			5.00	0.500	5.000	0	100	90	110	0.451		
Sulfate			30.8	3.00	30.00	0	103	90	110	0.335	20	-
Sample ID 0	710125-01EMS	Batch ID:	R34146		TestNo:	E300			Units:	m g	/L	
SampType: M	MS	Run ID:	IC2_07101	6A	Analysis	Date: 10/16/	2007 11:3	30:20 A	Prep Date	: 10/1	16/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Lim	it HighLimit	%RPD	RPDLimit	Qual
Fluoride			6.00	0.400	4.000	1.925	102	90	110			
Nitrate-N			5.89	0.500	5.000	0.9563	98.7	90	110			
Sulfate			85.5	3.00	30.00	55.21	101	90	110			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified

- DF Dilution Factor
- MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

IC2_071016A

												
Sample ID	0710125-01E MSD	Batch ID:	R34146		TestNo:	E300)		Units:	mg/	L	
SampType:	MSD	Run ID:	IC2_0710	016A	Analysis	Date: 10/1	6/2007 11:4	15:00 A	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Fluoride			5.98	0.400	4.000	1.925	101	90	110	0.322	20	
Nitrate-N	•		5.92	0.500	5.000	0.9563	99.3	90	110	0.523	20	
Sulfate			85.7	3.00	30.00	55.21	102	90	· 110	0.325	20	
Sample ID	0710125-01E MS	Batch ID:	R34146		TestNo:	E300)		Units:	m g/	L	
SampType:	MS	Run ID:	IC2_0710	016A	Aņalysis	Date: 10/1	6/2007 12:1	14:21 P	Prep Date	: 10/1	6/2007	
Analyte			Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD	RPDLimit	Qual
Chloride			56.4	2.00	20.00	37.15	96.4	90	110			
Sample ID	0710125-01E MSD	Batch ID:	R34146		TestNo:	E300)		Units:	mg/	L	
lo												l
SampType:	MSD	Run ID:	IC2_0710	016A	Analysis	Date: 10/1	6/2007 12:2	29:01 P	Prep Date	_	6/2007	
Analyte	MSD		IC2_0710	D16A RL	Analysis SPK value		6/2007 12:2 %REC			: 10/1	6/2007	Qual
· • • • • • • • • • • • • • • • • • • •	MSD				•	Date: 10/1			Prep Date	: 10/1	6/2007 RPDLimit	Qual
Analyte Chloride	MSD CCV1-071016		Result	RL	SPK value	Date: 10/1 Ref Val	%REC 97.0	Low Limit	Prep Date	: 10/1 %RPD	6/2007 RPDLimit 20	Qual
Analyte Chloride	CCV1-071016		Result 56.6	RL 2.00	SPK value 20.00 TestNo:	Ref Val 37.15	%REC 97.0	Low Limit	Prep Date t HighLimit 110	%RPD 0.206	6/2007 RPDLimit 20	Qual
Analyte Chloride Sample ID	CCV1-071016	Batch ID: Run ID:	Result 56.6 R34146	RL 2.00	SPK value 20.00 TestNo:	Date: 10/1 Ref Val 37.15	%REC 97.0	90 3:03 P	Prep Date t HighLimit 110 Units:	%RPD 0.206 mg/	6/2007 RPDLimit 20 L 6/2007	
Analyte Chloride Sample ID SampType:	CCV1-071016	Batch ID: Run ID:	Result 56.6 R34146 IC2_0710	2.00 216A	SPK value 20.00 TestNo: Analysis	Ref Val 37.15 E300 5 Date: 10/1	%REC 97.0) 6/2007 1:13	90 3:03 P	Prep Date t HighLimit 110 Units: Prep Date	%RPD 0.206 mg/	6/2007 RPDLimit 20 L 6/2007	
Analyte Chloride Sample ID SampType: Analyte	CCV1-071016	Batch ID: Run ID:	Result 56.6 R34146 IC2_0710 Result	2.00 016A	SPK value 20.00 TestNo: Analysis	Ref Val 37.15 E300 5 Date: 10/1	%REC 97.0 0 6/2007 1:13 %REC	90 3:03 P Low Limit	Prep Date t HighLimit 110 Units: Prep Date t HighLimit	%RPD 0.206 mg/	6/2007 RPDLimit 20 L 6/2007	
Analyte Chloride Sample ID SampType: Analyte Chloride	CCV1-071016	Batch ID: Run ID:	Result 56.6 R34146 IC2_0710 Result 9.94	RL 2.00 016A RL 1.00	SPK value 20.00 TestNo: Analysis SPK value 10.00	Ref Val 37.15 E300 Date: 10/1 Ref Val	%REC 97.0 6/2007 1:13 %REC 99.4	90 3:03 P Low Limit	Prep Date t HighLimit 110 Units: Prep Date t HighLimit 110	%RPD 0.206 mg/	6/2007 RPDLimit 20 L 6/2007	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

TITRATOR_071016A

Sample ID ICV-071016 SampType: ICV	Batch ID:	R34144 TITRATOR	071016A	TestNo:		600-H+ B 6/2007 12:3	80:00 P	Units: Prep Date	pH Units	
Analyte		Result	RL	SPK value	Ref Val	%REC		· · · · · · · · · · · · · · · · · · ·	%RPD RPDLimit	Qual
рН		9.94	0	10.00	0	99.4	99	101		
Sample ID 0710125-01E DUP SampType: DUP	Batch ID: Run ID:	R34144 TITRATOR_	_071016A	TestNo: Analysis		6/2007 12:3	32:00 P	Units: Prep Date	pH Units : 10/16/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD RPDLimit	Qual
рН		7.50	0	0	7.380				1.61 15	
Sample ID CCV-071016 SampType: CCV	Batch ID: Run ID:	R34144 TITRATOR_	_071016A	TestNo: Analysis		6/2007 12:3	3:00 P	Units: Prep Date	pH Units : 10/16/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD RPDLimit	Qual
pH		7.08	0	7.000	0	101	97.1	102.9		

Qualifiers:

В

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Spike Recovery outside control limits

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Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

TITRATOR_071016B

Sample D ICV-071016 Batch D R34145 R3 TestNo: M2320 B Units: mg/L	Troject.	oo state 1									
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 8.40 20.0 0 Alkalinity, Hydroxide (As CaCO3) 91.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 99.4 20.0 100.0 0 99.4 98 102 Sample ID MB-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: MBLK Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:47:00 P Prep Date: 10/16/2007 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:47:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Total (As CaCO3) Sp. 1 20.0	Sample ID ICV-071016	Batch ID:	R34145		TestNo:	M 23	320 B		Units:	mg/L	
Alkalinity, Bicarbonate (As CaCO3)	SampType: ICV	Run ID:	TITRATOR	R_071016B	Analysi	s Date: 10/1	6/2007 12:4	16:00 P	Prep Date:	10/16/2007	
Alkalinity, Carbonate (As CaCO3) 91.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 100.0 0 99.4 98 102 Sample ID MB-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Bicarbonate (As CaCO3) ND 20.0 ND 20.0 Alkalinity, Bicarbonate (As CaCO3) ND 20.0 ND	Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD RPDLimit	Qua
Alkalinity, Hydroxide (As CaCO3) 99.4 20.0 100.0 0 99.4 98 102 Sample ID MB-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Batch D: R34145 TestNo: M2320 B Units: mg/L Sample ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L Sample ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L Sample ID 0710125-01E DUP Run ID: R1TRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 280.0 0 217.7 P Rep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 280.0 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alkalinity, Bicarbonate (As CaCo	03)	8.40	20.0	0						
Alkalinity, Total (As CaCO3) 99.4 20.0 100.0 0 99.4 98 102 Sample ID MB-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: MBLK Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:47:00 P Prep Date: 10/16/2007 Analyte Result RL SFK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Rationally, Carbonate (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Sample ID LCS-071016 Batch ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007 Analyte Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Rationally, Total (As CaCO3) Sample ID 0710125-01E DUP Batch ID: TITRATOR_071016B Analysis Date: 10/16/2007 10:1:00 P Prep Date: 10/16/2007 Analyte Result RL SFK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Alkalinity, Carbonate (As CaCO3	3)	91.0	20.0	0	•					
Sample D MB-071016 Batch D; R34145 TestNo: M2320 B Units: mg/L	Alkalinity, Hydroxide (As CaCO3)	0	20.0	0						
SampType: MBLK Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:47:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) ND 20.0 Alkalinity, Pydroxide (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Pydroxide (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Total (As CaCO3) S2.1 20.0 50.00 0 10.4 74 12.9 SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Potal (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Carbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 20 Alkalinity, Hydroxide (As CaCO3) 223 20.0 0 217.7 2.42 20 20 20 20 20 20 20	Alkalinity, Total (As CaCO3)		99.4	20.0	100.0	0	99.4	98	102		
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Total (As CaCO3) ND 20.0 Sample ID LCS-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Carbonate (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sample ID MB-071016	Batch ID:	R34145		TestNo:	M 23	320 B	-	Units:	mg/L	
Alkalinity, Bicarbonate (As CaCO3) ND 20.0 Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Sample ID LCS-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Total (As CaCO3) 52.1 20.0 50.00 0 104 74 129 SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Carbonate (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SampType: MBLK	Run ID:	TITRATOR	R_071016B	Analysi	s Date: 10/1	6/2007 12:4	17:00 P	Prep Date	: 10/16/2007	
Alkalinity, Carbonate (As CaCO3) ND 20.0 Alkalinity, Hydroxide (As CaCO3) ND 20.0 Sample ID LCS-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RFDLimit Quality, Total (As CaCO3) 52.1 20.0 50.00 0 104 74 129 Sampte ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RFDLimit Quality, Bicarbonate (As CaCO3) 223 20.0 0 217.7 Prep Date: 10/16/2007 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RFDLimit Quality, Hydroxide (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyte		Result	RL.	SPK value	Ref Val	%REC	Low Limit	t HighLimit	%RPD RPDLimit	Qua
Alkalinity, Hydroxide (As CaCO3) Alkalinity, Total (As CaCO3) ND 20.0 Sample ID LCS-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L	Alkalinity, Bicarbonate (As CaCo	D3)	ND	20.0						v	
Alkalinity, Total (As CaCO3) ND 20.0	Alkalinity, Carbonate (As CaCO3	3)	ND	20.0							
Sample D LCS-071016 Batch D: R34145 TestNo: M 2320 B Units: m g/L	Alkalinity, Hydroxide (As CaCO3	·)	ND	20.0							
SampType: LCS Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 12:51:00 P Prep Date: 10/16/2007	Alkalinity, Total (As CaCO3)		ND	20.0						<u></u>	
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qualitation (As CaCO3) 52.1 20.0 50.00 0 104 74 129 Sample ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qualitation (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Bicarbonate (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sample ID LCS-071016	Batch ID:	R34145		TestNo:	M 23	320 B		Units:	mg/L	
Alkalinity, Total (As CaCO3) 52.1 20.0 50.00 0 104 74 129 Sample ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Carbonate (As CaCO3) 0 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SampType: LCS	Run ID:	TITRATOR	R_071016B	Analysi	s Date: 10/1	6/2007 12:5	51:00 P	Prep Date	: 10/16/2007	
Sample ID 0710125-01E DUP Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 0 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 0 20 Alkalinity, Total (As CaCO3) 223 20.0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0	Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	Qua
SampType: DUP Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:01:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 0 20 Alkalinity, Total (As CaCO3) 0 20.0 0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Que Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 Alkalinity, Hydroxide (As CaCO3) 89.0 20.0	Alkalinity, Total (As CaCO3)		52.1	20.0	50.00	0	104	74	129		
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Bicarbonate (As CaCO3) 223 20.0 0 217.7 2.42 20 Alkalinity, Carbonate (As CaCO3) 0 20.0 0 0 0 20 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 0 0 20 Alkalinity, Total (As CaCO3) 223 20.0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Sample ID	Batch ID:	R34145		TestNo:	M 23	320 B		Units:	mg/L	
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Alkalinity, Carbonate (As CaCO3)	Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	Qua
Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 217.7 0 20 Alkalinity, Total (As CaCO3) 223 20.0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Alkalinity, Bicarbonate (As CaCo	03)	223	20.0	0	217.7		<u> </u>		2.42 20	
Alkalinity, Total (As CaCO3) 223 20.0 0 217.7 2.42 20 Sample ID CCV-071016 Batch ID: R34145 TestNo: M2320 B Units: mg/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Bicarbonate (As CaCO3) Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Alkalinity, Carbonate (As CaCO3	3)	0	20.0	0	/ 0				0 20	
Sample ID CCV-071016 Batch ID: R34145 TestNo: M 2320 B Units: m g/L SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Quality Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 0 0 0 Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 0 0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0 <td>Alkalinity, Hydroxide (As CaCO3</td> <td>5)</td> <td>0</td> <td>20.0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td> <td>0 20</td> <td></td>	Alkalinity, Hydroxide (As CaCO3	5)	0	20.0	0	0				0 20	
SampType: CCV Run ID: TITRATOR_071016B Analysis Date: 10/16/2007 1:06:00 P Prep Date: 10/16/2007 Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Alkalinity, Total (As CaCO3)		223	20.0	0	217.7				2.42 20	
Analyte Result RL SPK value Ref Val %REC Low Limit HighLimit %RPD RPDLimit Qual Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Sample ID CCV-071016	Batch ID:	R34145		TestNo:	M 23	320 B		Units:	mg/L	
Alkalinity, Bicarbonate (As CaCO3) 10.4 20.0 0 Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	SampType: CCV	Run ID:	TITRATOR	R_071016B	Analysi	s Date: 10/1	6/2007 1:06	6:00 P	Prep Date	: 10/16/2007	
Alkalinity, Carbonate (As CaCO3) 89.0 20.0 0 Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	t Qua
Alkalinity, Hydroxide (As CaCO3) 0 20.0 0	Alkalinity, Bicarbonate (As CaCo	03)	10.4	20.0	0						
	Alkalinity, Carbonate (As CaCO3	3)	89.0	20.0	0						
	Alkalinity, Hydroxide (As CaCO3)	0	20.0	0						
	Alkalinity, Total (As CaCO3)				100.0	0	99.4	90	110		
	·										

Qualifiers:

В Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

Parameter not NELAC certified N

DF Dilution Factor

MDL Method Detection Limit

RPD outside accepted control limits

Spike Recovery outside control limits

Page 16 of 17

Larson & Associates

Work Order:

0710125

Project:

JHHC Frisco State "A"

ANALYTICAL QC SUMMARY REPORT

RunID:

WC_071016B

Sample ID MB-071016 SampType: MBLK	Batch ID: Run ID:	_	/-10/16/07 /1016B	TestNo: Analysis		40C 7/2007 8:20):00 A	Units: Prep Date	mg/L : 10/16/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	Qual
Total Dissolved Solids (Residue	, Filtera	ND	10.0							
Sample ID LCS-071016 SampType: LCS	Batch ID: Run ID:	-	/-10/16/07 /1016B	TestNo: Analysis		640C 7/2007 8:20):00 A	Units; Prep Date	mg/L : 10/16/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	Qual
Total Dissolved Solids (Residue	, Filtera	756	10.0	745.6	0	101	70	126		
Sample ID 0710125-01E DUP SampType: DUP	Batch ID: Run ID:	_	/-10/16/07 71016B	TestNo: Analysis		540C 7/2007 8:20):00 A	Units: Prep Date	mg/L : 10/16/2007	
Analyte		Result	RL	SPK value	Ref Val	%REC	Low Limi	t HighLimit	%RPD RPDLimit	Qual
Total Dissolved Solids (Residue	, Filtera	513	10.0	0	516.0				0.583 5	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

N Parameter not NELAC certified

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

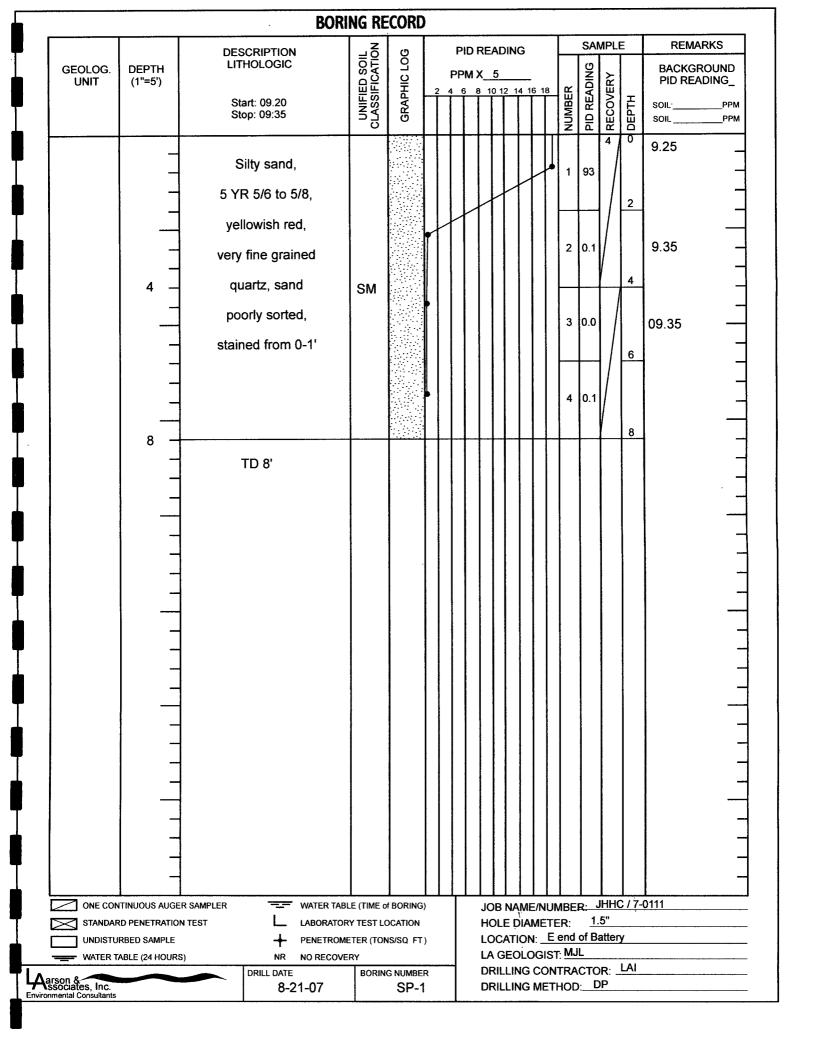
RFD outside accepted control limits

S Spike Recovery outside control limits

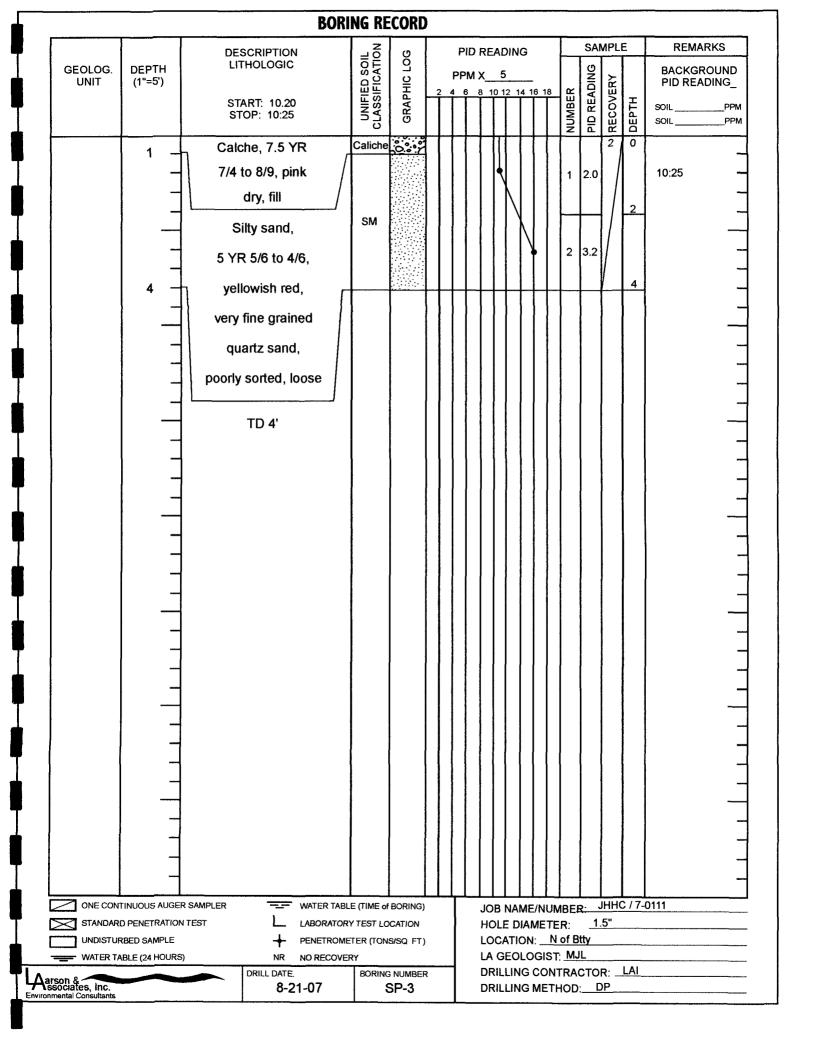
Page 17 of 17

APPENDIX B

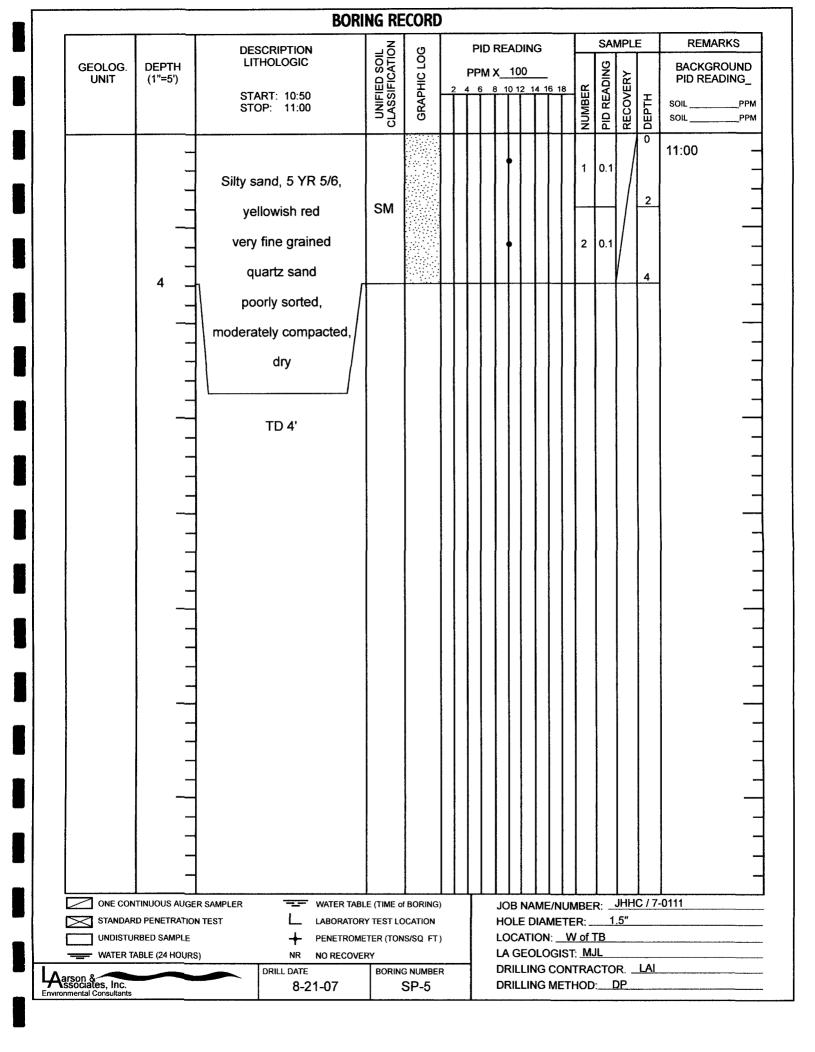
Boring Logs and Well Record



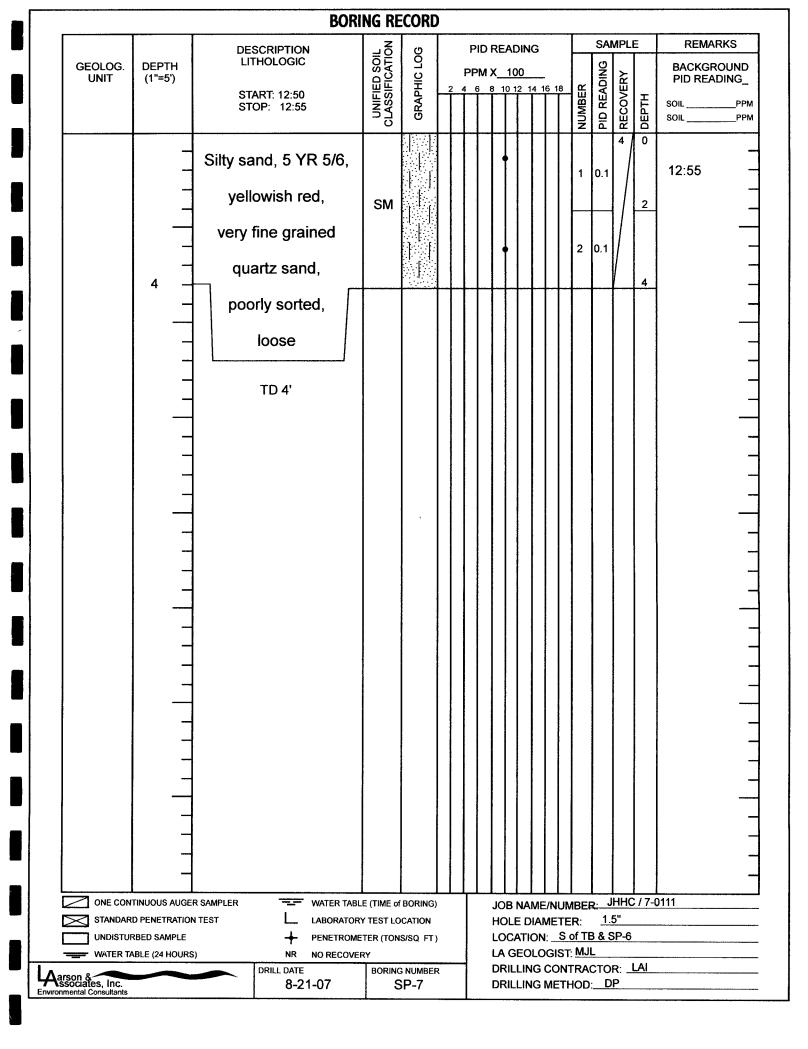
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		Р	ID R	EAD	OIN	G		SAMPLE			E								
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r	_	qu	artz sand	d,										2	0.1				_
		very poor	rly sorted	l, loose,	SM											3	4		_
			drocarbo	n										3	0.1				_
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son & Sociates, Inc.	ABLE (24 HOURS)	DRILL DATE	NO RECOVE	BORING	SNUMBER	R	\dashv	E	RIL	LIN	G C	гио	RA	CTO		LAI_		

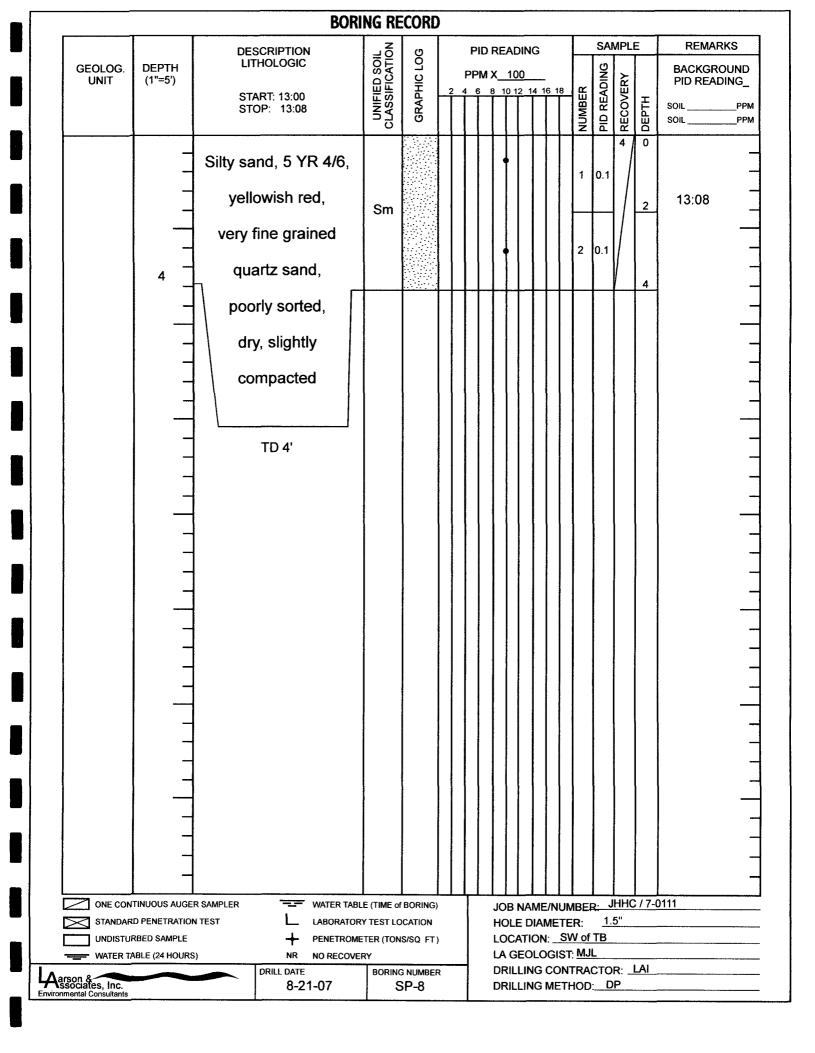


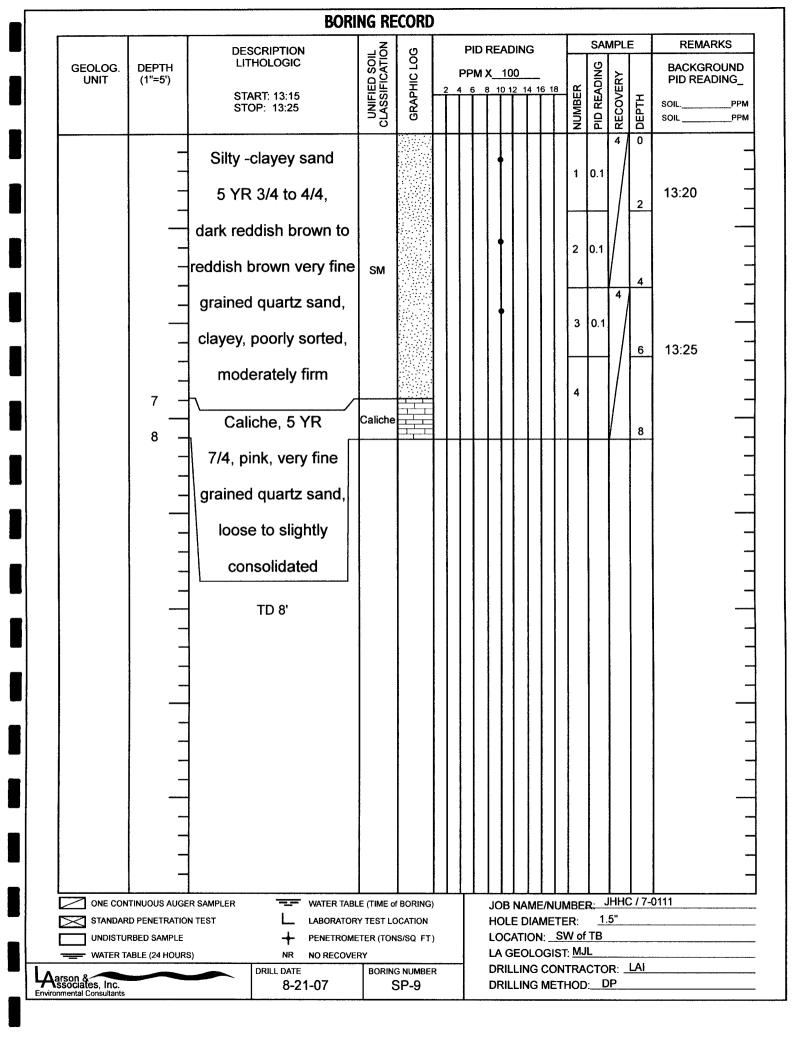
				BORII	NG RE	CORD																								
		DES	SCRIPTION		۵.۳	ပ္		PIE	RE	ADII	NG			SAI	MPLI	E	REMARKS													
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		ST/ ST	ART: 10:35 OP: 10:40		UNIFI	GRAP	Ī		Ĭ	ĬĪ			NUMBER	PID RE/	RECOVERY	DEPTH	BACKGROUND PID READING_ SOILPPN SOILPPN 10:40													
	_	Silty sa	and, 5YR	5/6,									1	0.1	4	0	10:40													
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		very	fine grain	ed		SIVI			SIVI	SM	SM	SM	21/1	SM	SIVI	SIM	SIVI		SIVI							2	0.1			
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arson & Inc.	ABLE (24 HOURS	5)	DRILL DATE.	0 RECOVER	BORING	NUMBER		-	DF	RILLI	NG	CON	T: <u>M</u> NTRA THOD	сто		LAI														



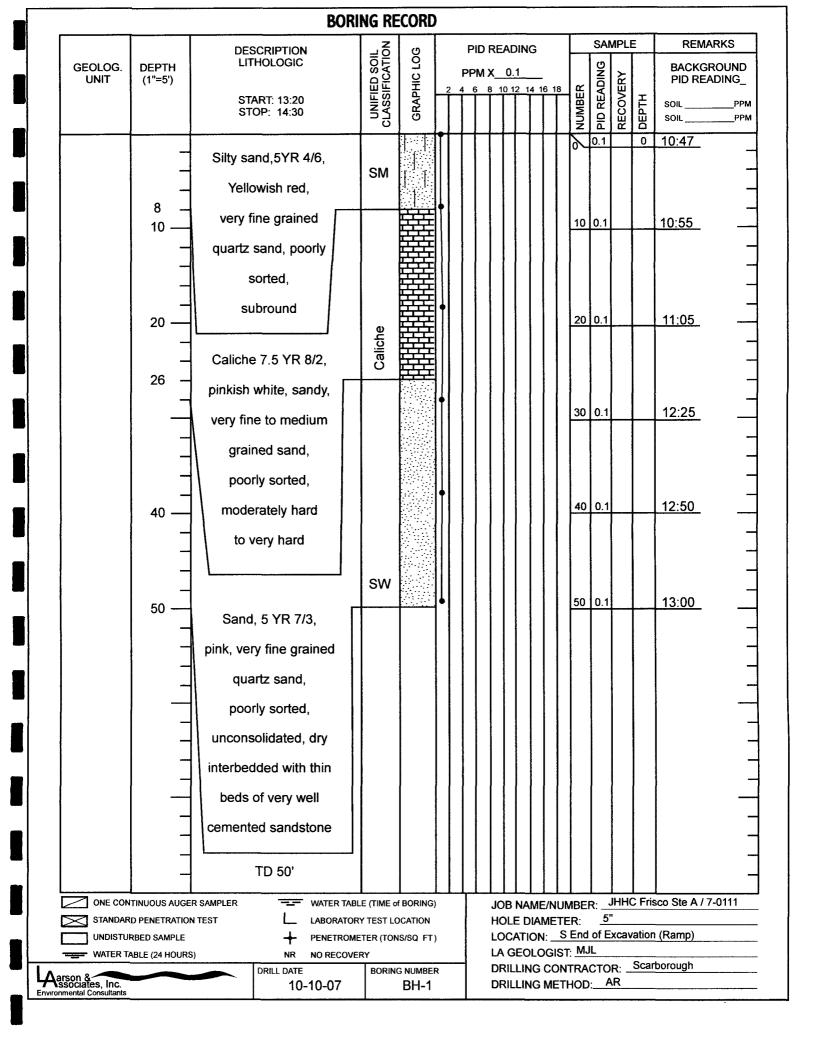
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		DES	SCRIPTION	~NO	_O		PID	REA	DIN	G			SAI	VIPLI	E	REMA	RKS
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		STO	ART: 12:25 OP: 12:40	UNIFIED SOIL CLASSIFICATION	GRAF							NUMBER	PID READING	RECOVERY	DEPTH	SOIL	
	8 -	7. reddish graine Clayey	clayey sand, 5 YR 4/4, brown, very fine d quartz sand. y, low plasticity 5 YR 5/6 yellow below 3'	SM				•				2	0.1	1.5	0 0 4.5	12:30	
	TINUOUS AUGE		TD 8'	-											:/7-(0111	
	D PENETRATION RBED SAMPLE	N TEST	L LABORATOR → PENETROME				JOB NAME/NUMBER: JHHC / 7-0111 HOLE DIAMETER: 1.5" LOCATION: S of TB										
	ABLE (24 HOURS	5)	NR NO RECOVE		NI MADE)		LA GEOLOGIST: MJL									
Aarson & Inc. nvironmental Consultants		DRILL DATE BORING NUMBER DRILLING CONTRACTOR: LAI 8-21-07 SP-6 DRILLING METHOD: DP															

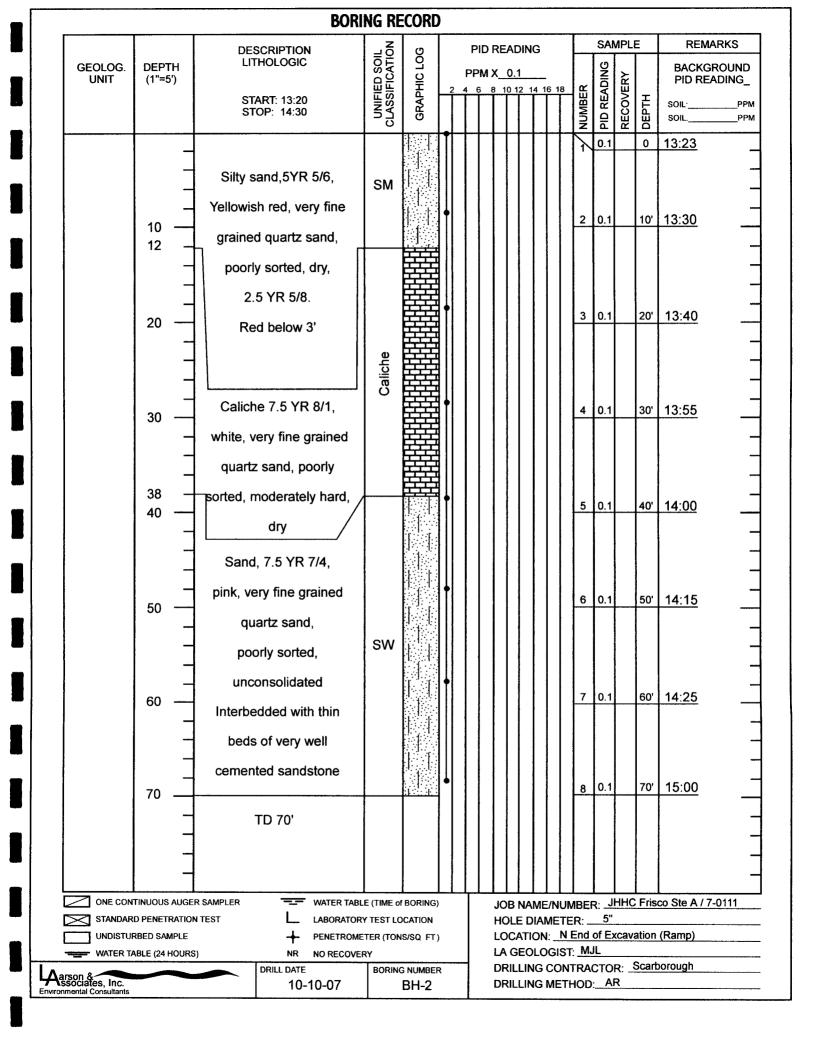


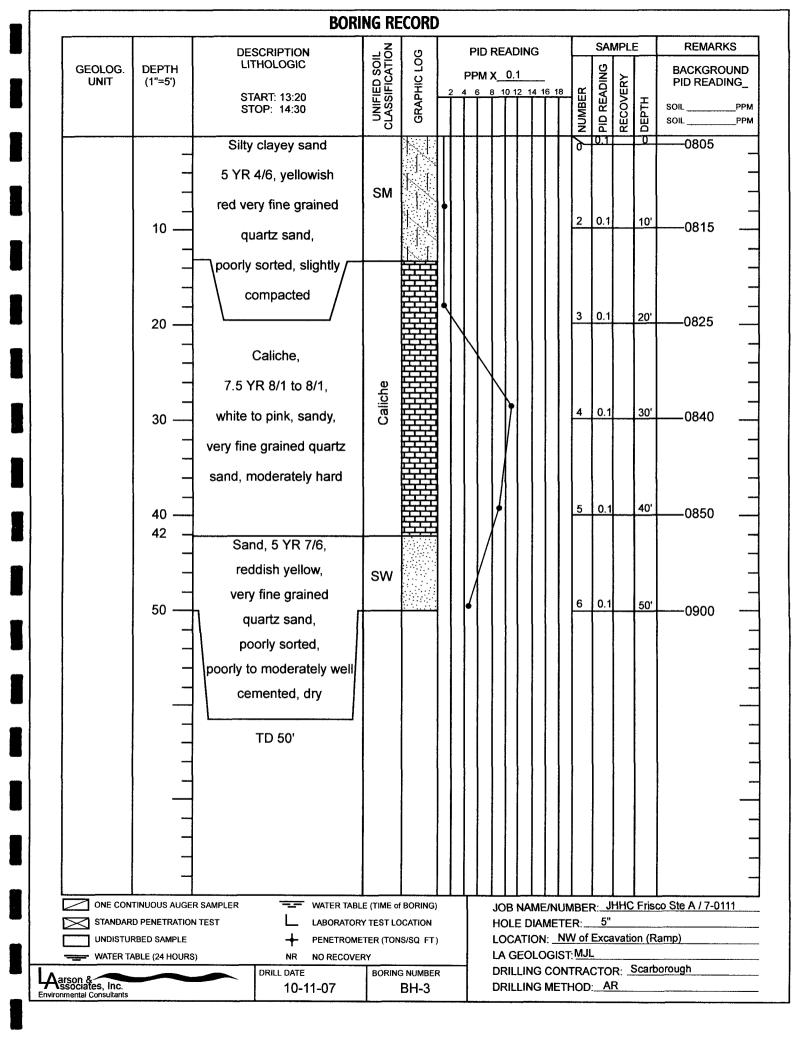


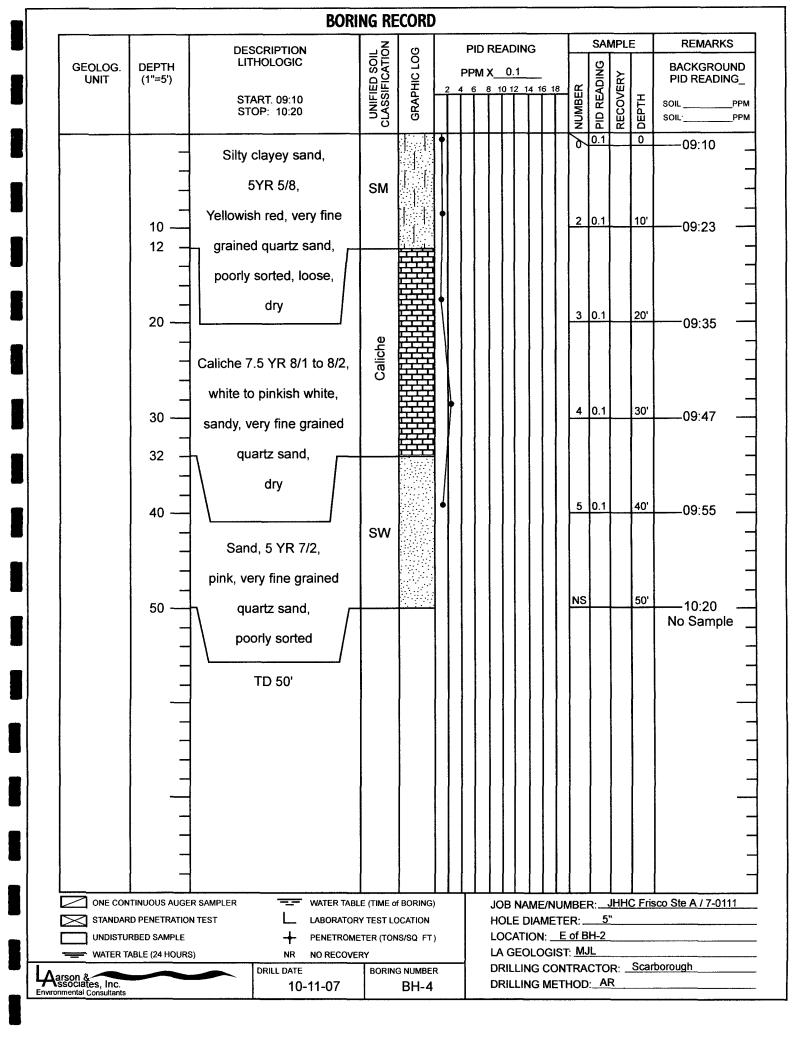


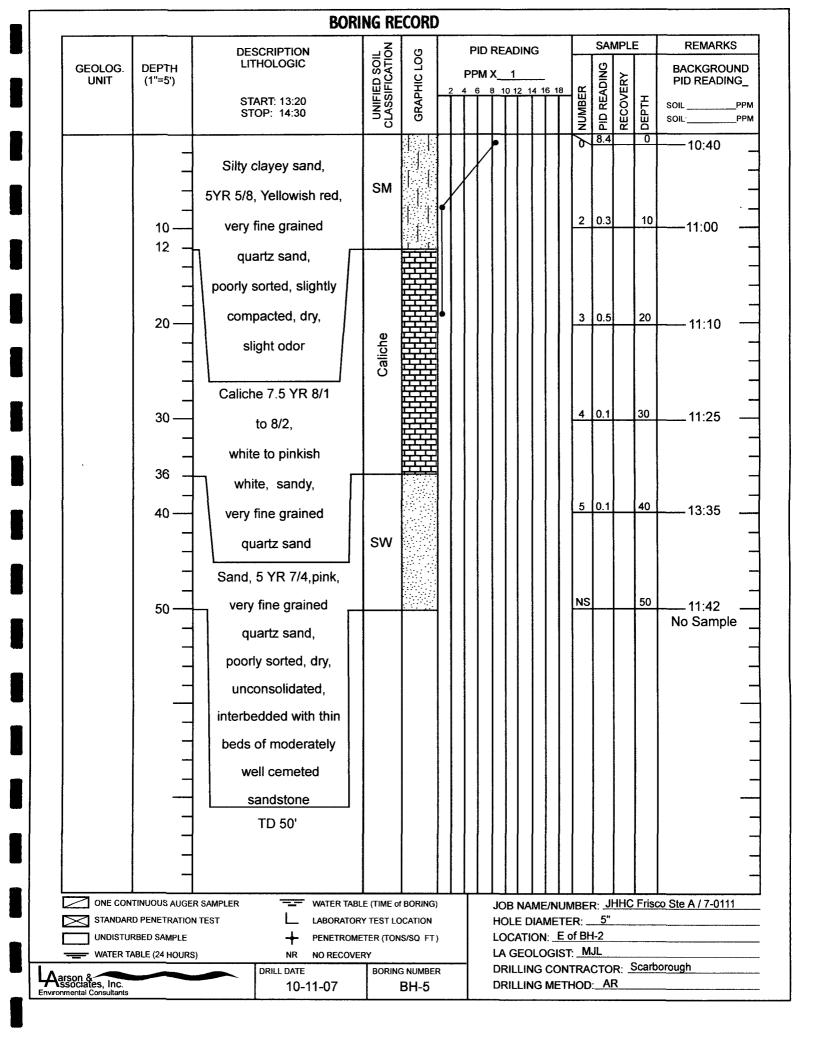
		BORI	NG RE	CORD)						<u></u>			
		ESCRIPTION	S S S	Я		PID f	READI	NG	L	1	MPL	E	REMAR	
	EPTH 1"=5')	ITHOLOGIC	D SO	IIC FC		PPM >				DING	₹		BACKGRO PID READ	DUND DING_
	S	TART: 13:33 TOP: 13:37	UNIFIED SOIL CLASSIFICATION	GRAPHIC LOG	7	6 8	10 12	14 16	18 2	PID READING	RECOVERY	DEPTH	SOIL	PPM
			그리	<u> </u>			44	$\bot \bot$	\{\bar{2}}	문	4	o DE	SOIL	PPM
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	7	ldish brown,								0.1	1/		13:37	7
	7		SM						$\ \cdot\ $	+	$\parallel \parallel$	2		\dashv
	very	fine grained	3				+		2	0.1	\parallel			\Box
	4 <u> </u> qı	uartz sand,										4		
	poor	ly sorted, dry,												-
		loose												
		5YR 5/6,												
	\ ye	ellowish red												
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] [1
	_	TD 4'												-
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ONE CONTINU	JOUS AUGER SAMPLER	WATER TABL	E (TIMF o	f BORING		Ш		IAME,	NUMB		L JHH0	2/7-	0111	
STANDARD PE	ENETRATION TEST	L LABORATOR	Y TEST LO	CATION			HOLE	DIAM	ETER:	<u>1</u> .	.5"			
UNDISTURBED WATER TABLE		→ PENETROME NR NO RECOVE		IS/SQ FT)		LA GE	OLO	<u>W of</u> SIST: <u>M</u>	JL			'	
Aarson & Inc. Environmental Consultants		DRILL DATE 8-21-07		G NUMBE S P-10	R [.]				ONTR			LAI		











CLIENT: JOHN H. HENDRIX CORP.

PROJECT: TMW-1

LOG: MW-1

PROJECT NO.: 7-0111

GEOLOGIST: MJL

LOCATION: LEA COUNTY, NEW MEXICO

PAGE: 1 OF 1

 	SUBSURFACE PROFILE			S	AMPLI	Ē	DID	Н	
DEPTH	DESCRIPTION	SYMBOL	ELEVATION	NUMBER	READING	DEPTH	PID MEASUREMENT (PPM X 2) 2 6 10 14 18 14 8 12 16 20	WELL DETAIL	NOTES
5_	SILTY SAND 2.5YR 5/8, RED, VERY FINE TO MEDIUM GRAINED QUARTZ SAND, VERY POORLY SORTED, SLIGHTLY COMPACTED, DRY			1	4	0,	14 18 112[16]20		WELL FINISHED WITH LOCKING CAP ABOVE GRADE COVER ANCHORED IN CONCRETE.
	CALICHE 7.5YR 8/2, PINKISH WHITE, SANDY VERY FINE TO MEDIUM GRAINED QUARTZ SAND, CALCITE CRYSTALS		<u>-9</u>	2	17	10'			
20-				3	18.2	20'			1.00' - 82.00' BGS BENONITE CHIPS
30-	SILTY SAND 5YR 7/3, PINK, FINE TO VERY FINE		-30	4	15.7	30'			
40-	GRAINED QUARTZ SAND, POORLY SORTED, UNCONSOLIDATED			5	22.4	40'			
50-			-55	6	30.1	50'	\		0.00' - 89.41' BGS 2" SCH. 40 PVC THREADED RISER
60—	SAND 5YR 7/4 TO 7/6, PINK TO REDDISH YELLOW, VERY FINE GRAINED QUARTZ SAND, POORLY SORTED, UNCONSOLIDATED WITH VERY HARD SANDSTONE, MOIST AT 62 FEET		-55						
70-									
85-									82.00' - 105.56' BGS 10-20 SILICA SAND
90-									91.48' BGS WATER LEVEL, 10/24/07 89.41' - 104.66' BGS
100 =									2" SCH. 40 PVC THREADED SCREEN, 0.010" SLOTS 105.56' BGS
110	TD: 110.0'		-110					' '	110 0'

DRILLED BY: SCARBOROUGH

DRILL METHOD: WATER ROTARY

DRILL DATE: 10/10/07

HOLE DIAMETER: 6 1/8"

LARSON AND ASSOCIATES INC. 507 N. MARIENFELD, SUITE 202 MIDLAND, TEXAS 79701

(432) 687-0901

WELL SIZE: 2"

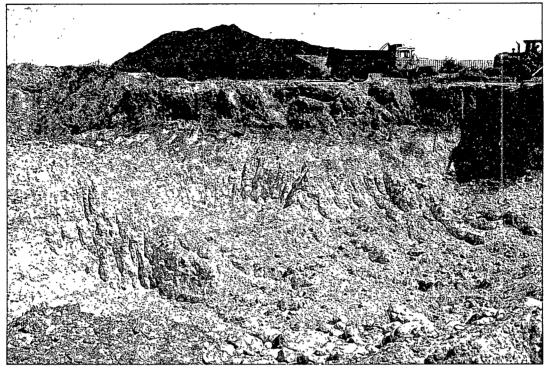
TOC ELEVATION: N/A

CHECKED BY: MJL

APPENDIX C

Photographs

1RP-1454
John H. Hendrix Corporation
Frisco State A Tank Battery
Photograph Documentation
September 13, 2007



Tank battery excavation looking Northeast.

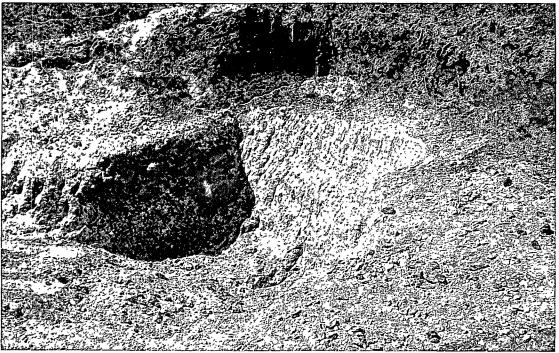


Tank battery excavation looking East.

1RP-1454
John H. Hendrix Corporation
Frisco State A Tank Battery
Photograph Documentation
September 13, 2007



Tank battery excavation looking Southeast.



Tank battery excavation looking Northeast.

APPENDIX D

Initial and Final C-141

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OP.	ERATOR 🗡	Initial Report Final Report								
Name of Company: John H. Hendrix Corporation	Contact: Marvin Burrows									
Address: 1310 18 th Street, Eunice, New Mexico 8\$231	Telephone No.: (505) 394-2649									
Facility Name: Fristoe State A #1Tank Battery	Facility Type: Production Tank	Battery								
Surface Owner: State of New Mexico Mineral Owner		Lease No.: NN23777								
LOCATIO	N OF RELEASE									
		/West Line County: Lea								
E 32 21S 37E										
		·								
Latitude: 32° 26' 18.6" North	n and Longitude: 103° 11' 22.8"	West								
NATURE	E OF RELEASE									
Type of Release: Crude Oil and Produced Water	Volume of Release:	Volume Recovered:								
	.5 bbl oil / 0 bbl water	0 bbl oil / 0 bbl water								
Source of Release: Lightening	Date and Hour of Occurrence: 21:00 hrs on 06/26/2007	Date and Hour of Discovery: 22:00 hrs on 06/26/2007								
Was Immediate Notice Given?	If YES, To Whom? NMOCD On-									
☐ Yes ☑ No ☐ Not Required	1									
By Whom?	Date and Hour:									
Was a Watercourse Reached?	If YES, Volume Impacting the W	atercourse.								
If a Watercourse was Impacted, Describe Fully.* N/A										
Describe Cause of Problem and Remedial Action Taken.* Lightening hit oil tank causing fire to burn the fiberglass tank and its conadjoining fiberglass water tank was also burned. Approximately ½ barred Describe Area Affected and Cleanup Action Taken.* Eunice Fire Department area measuring approximately 10 x 10 feet outside of firewall was affected.	el of crude oil was lost on ground. rtment responded and fire had consum	ned the entire contents of the oil tank and an								
affected area and contaminated soil will be hauled to the owner's central										
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedior the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective a the NMOCD marked as "Final Report ate contamination that pose a threat to	actions for releases which may endanger " does not relieve the operator of liability ground water, surface water, human health								
	OIL CONSER	VATION DIVISION								
Signature:		•								
Printed Name: Mark J. Larson	Approved by District Supervisor:	, , , , , , , , , , , , , , , , , , ,								
Title: Sr. Project Manager / President, Larson and Associates, Inc. (agent for John H. Hendrix Corporation)	Approval Date:	Expiration Date:								
E-mail Address: mark@laenvironmental.com	Conditions of Approval:	Attached								
Date: June 29, 2007 Phone: (432) 687-0901										

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

federal, state, or local laws and/or regulations.

State of New Mexico **Energy Minerals and Natural Resources** 18192021

Oil Conservation Division 1220 South St. Francis Dr. Santa, Fe, NM 87505

Form C-141 ised October 10, 2003 Submit 2 ppies to appropriate
District Office in accordance
with Rule 116 on back side of form

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1RP-1454

Release Notification and Corrective Action **OPERATOR Initial Report** Final Report Name of Company: John H. Hendrix Corporation Contact: Marvin Burrows Address: 1310 18th Street, Eunice, New Mexico 88231 Telephone No.: (505) 394-2649 Facility Name: Fristoe State A #1Tank Battery Facility Type: Production Tank Battery Mineral Owner Surface Owner: State of New Mexico Lease No.: NN23777 LOCATION OF RELEASE Feet from the North/South Line East/West Line Unit Letter Section Township Range Feet from the County: Lea 37E F **21S** 32 Latitude: 32° 26' 18.6" North and Longitude: 103° 11' 22.8" West NATURE OF RELEASE Type of Release: Crude Oil and Produced Water Volume of Release: Volume Recovered: .5 bbl oil / 0 bbl water 0 bbl oil / 0 bbl water Source of Release: Lightening Date and Hour of Occurrence: Date and Hour of Discovery: 21:00 hrs on 06/26/2007 22:00 hrs on 06/26/2007 Was Immediate Notice Given? If YES, To Whom? NMOCD On-Call Representative (Pager) ☐ Yes ☐ Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes V No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken: Lightening struck oil tank causing fire to burn oil tank and fiberglass water tank. Oil tank and entire contents (240 barrels), except approximately ½ barrel, was consumed by the fire. The unfilled portion of the adjoining fiberglass water tank was also burned. Approximately ½ barrel of crude oil was lost. Excavated soil to reduce TPH, benzene and BTEX below RRAL and hauled to JHHC landfarm. Describe Area Affected and Cleanup Action Taken: Eunice Fire Department responded, but fire had consumed the oil tank and unfilled portion of the fiberglass water tank. Affected area measuring approximately 10 x 10 feet outside of firewall due to loss of approximately ½ barrel spilled over old spill. Excavated entire battery site to 1 foot and reduced TPH, benzene and BTEX below RRAL. Highest remaining chloride is 260 mg/Kg. Excavated area north of battery to approximately 40 feet and sampled to 50 feet. Residual TPH above 1,000 mg/Kg at 50 feet and installed 5 borings to delineate. Installed temporary well into groundwater at 91.50 feet to check for groundwater impact. TPH delineated and limited to immediate north side of excavation. Groundwater was found without impaction by BTEX, metals, chloride or TDS. All confirmation soil samples were below RRAL for benzene and BTEX. Highest residual chloride was 260 mg/Kg. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger

Signature:	OIL CONSE	RVATION DIVISION						
Printed Name: Mark J. Larson	Approved by District ENDERGYNMENTAL ENGINEER							
Title: Sr. Project Manager / President, Larson and Associates, Inc. (agent for John H. Hendrix Corporation)	Approval Date: (1.1.07	Expiration Date:	Date:					
E-mail Address: mark@laenvironmental.com Date: October 31, 2007 Phone: (432) 687-0901	Conditions of Approval:	Attached RP 1454						

public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other