GW-211

Q1 2010 Monitoring Report Date: 4/20/20110

Enterprise Products™

April 20, 2010

ENTERPRISE PRODUCTS PARTNERS LP
ENTERPRISE PRODUCTS OPERATING LLC

ENTERPRISE PRODUCTS GP, LLC, GENERAL PARTNER
ENTERPRISE PRODUCTS OLPGP, INC., SOLE MANAGER

Return Receipt Requested
7009 3410 0001 6448 0216

Mr. Jim Griswold
Environmental Engineer
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Quarterly Groundwater Report – March 2010
Largo Compressor Station, GW-211
Enterprise Field Services, LLC
Rio Arriba County, New Mexico

Attn: Leonard Lowe

Dear Mr. Griswold,

The attached report documents the February 2010 quarterly groundwater monitoring event at the Enterprise Field Services, LLC (Enterprise) facility referenced above. This compressor station is located in Unit I of Section 15 within Township 26N, Range 7W in Rio Arriba County, NM.

Investigations and remedial actions at this facility are being conducted following a natural gas condensate release during January 2008. On December 15, 2009, a *Report of Subsurface Investigation at Largo Compressor Station* was submitted to the New Mexico Oil Conservation Commission (OCD). This report provided the proposed interim remedial actions that are currently being implemented at the facility.

Should you have any questions, please do not hesitate to contact me at (713) 381-2286 or drsmith@eprod.com.

Sincerely,

David R. Smith, P.G.

District Copy
For Scanning Only
Has NOT been processed.

/bjm
Attachment – November 2009 Groundwater Sampling Report

cc: Brandon Powell, NMOCD Aztec Office
Ashley Auger, LTE Environmental
Rex Meyer, GeoMonitoring Services

P. O. BOX 4324
HOUSTON, TX 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TX 77002-5227
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COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental Inc.

2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096
F 970.385.1873

April 20, 2010

Mr. David R. Smith, P.G.
Enterprise Field Services, LLC
P.O. Box 4324
Houston, Texas 77210-4324

RE: Quarterly Groundwater Monitoring Report
Largo Compressor Station, GW-211
Rio Arriba County, New Mexico

Dear Mr. Smith,

On February 25, 2010, LT Environmental, Inc. (LTE) conducted quarterly groundwater monitoring at Enterprise Field Services, LLC's (Enterprise) Largo Compressor Station (Site). The Site is located in Section 21 of Township 26 North, Range 12 West in Rio Arriba County, New Mexico. Groundwater samples were collected from four two-inch monitoring wells and four of five piezometers. One piezometer contained phase separated hydrocarbon (PSH) and was not sampled. A site map with well locations is presented as Figure 1. Additional details are presented below.

Methods

Prior to sampling, depth to groundwater and total depth of wells were measured with a Keck oil/water interface probe. Presence of any free-phase product was also detected and measured with the interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. The volume of water in the wells was calculated, and a minimum of three casing volumes of water was purged from each well using a disposable bailer or a permanent decontaminated PVC bailer. As water was extracted, pH, electric conductivity and temperature were monitored. Wells were purged until these properties stabilized, indicating that the purge water was representative of aquifer conditions, or until the well was bailed dry. Stabilization was defined as three consecutive stable readings for each water property (±0.4 units for pH, ±10 percent for electric conductivity and ±2° C for temperature). All purge water was disposed into a sump located on the site. Data were recorded on the attached *Well Development and Sampling Logs*.

Once each monitoring well was properly purged, groundwater samples were collected by filling three 40-milliliter (ml) glass vials. The pre-cleaned and pre-preserved (with hydrochloric acid or mercuric chloride) vials were filled and capped with no air inside to prevent degradation of the sample. Samples were labeled with the date and time of collection, well designation, project name, collector's name and parameters to be analyzed. They were immediately sealed and packed on ice. The samples were shipped to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico in a sealed cooler via bus before designated holding times expired. Proper chain-of-custody (COC) procedures were followed with logs documenting the date and time sampled, sample number, type of sample, sampler's name, preservative used, analyses required and sampler's signatures (attached). HEAL analyzed the groundwater samples for benzene, toluene, ethyl-benzene and xylenes (BTEX).

Results and Conclusions

Depth to groundwater measurements for all wells are shown in Table 1. P-1 contained 1.07 feet of PSH on top of the water table. A disposable bailer was used to remove as much PSH as possible from the well. Approximately 0.8 ounces were recovered this quarter. No other well contained PSH. These data were used to calculate groundwater elevations, which ranged from 6079.15 feet in MW-8 to 6082.68 feet in P-1. A potentiometric surface map is included as Figure 2 and suggests groundwater flow is towards the west-northwest (MW-8), following a potential paleo-channel. The map also suggests mounding in the bermed area.

Laboratory analytical results are shown in Table 2. A complete laboratory report from HEAL is attached. P-2 and MW-7 contained BTEX concentrations above New Mexico Water Quality Control Commission (NMWQCC) standards. P-4 and P-5 contained small concentrations of BTEX, but values were below NMWQCC standards. P-1 and P-2 are located within the bermed area and are wells closest to the original source. MW-7 is located downgradient of P-1 and P-2, indicating that some migration of dissolved phase contaminants has occurred. P-4 and P-5 are also downgradient, suggesting additional migration may be underway.

Since this monitoring was completed, Enterprise began implementation of the work plan submitted to the NMOCD and dated December 31, 2009. All piezometers were replaced with two-inch monitoring wells, with the exception of P-1, which was replaced with a four-inch monitoring well to allow for product recovery as necessary. Two additional monitoring wells were installed to better delineate groundwater impacts. All wells were surveyed and sampled following completion of new well installations. A report of work completed will be submitted to the NMOCD once analytical results are received. It is important to note that no PSH has been measured in any of the new wells thus far.

Recommendations

LTE recommends continuing groundwater monitoring on a quarterly basis. The next sampling event is scheduled for May 2010. In the interim, Enterprise has completed additional work described in the work plan dated December 31, 2009. Additional recommendations may be provided following assessment of new data.

LTE appreciates the opportunity to perform these services for Enterprise. Should you have any questions or require additional information, please contact me at 970-385-1096.

Sincerely,
LT ENVIRONMENTAL, INC.

Ashley Ager
Senior Geologist/Office Manager

CC: Rex Meyer, GeoMonitoring Services
Glen von Gonten, NMOCD
Brandon Powell, NMOCD

Table 1 – Groundwater Elevations
Table 2 – Groundwater Sampling Results

Figure 1 – Groundwater Potentiometric Surface Map

Attachment 1 – Well Development and Sampling Logs
Attachment 2 – Laboratory Report

TABLES

TABLE 1

GROUNDWATER ELEVATIONS
LARGO COMPRESSOR STATION
ENTERPRISE FIELD SERVICES LLC

Well Number	Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
P-1	2/25/2010	6098.38	16.55	15.48	1.07	*6082.68
P-2	2/25/2010	6104.25	21.72	-	-	6082.53
P-3	2/25/2010	6103.50	22.41	-	-	6081.09
P-4	2/25/2010	6103.30	20.96	-	-	6082.34
P-5	2/25/2010	6103.20	20.78	-	-	6082.42
MW-6	2/25/2010	6101.23	19.54	-	-	6081.69
MW-7	2/25/2010	6100.90	21.42	-	-	6079.48
MW-8	2/25/2010	6102.40	23.25	-	-	6079.15
MW-9	2/25/2010	6103.06	21.51	-	-	6081.55

Note:
*Corrected for presence of phase-separated hydrocarbon using an estimated density correction factor of 0.8.

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
LARGO COMPRESSOR STATION
ENTERPRISE FIELD SERVICES LLC

Sample Name	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TOTAL BTEX (µg/L)
P-2	2/25/2010	19,000	380	380	2,800	22,560
P-3	2/25/2010	3.6	10	2.0	24	39.6
P-4	2/25/2010	2.5	7.5	<1.0	14	24.0
P-5	2/25/2010	1.8	6.1	<1.0	11	18.9
MW-6	2/25/2010	<1.0	<1.0	<1.0	<2.0	ND
MW-7	2/25/2010	3,000	<10	40	31	3,071
MW-8	2/25/2010	<1.0	<1.0	<1.0	<2.0	ND
MW-9	2/25/2010	<1.0	<1.0	<1.0	<2.0	ND
NMWQCC Standard		**10**	**750**	**750**	**620**	

Notes:
ug/L - micrograms per liter
< indicates result is less than the stated laboratory method detection limit
NMWQCC - New Mexico Water Quality Control Commission
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8021.
ND - Not Detected

FIGURES

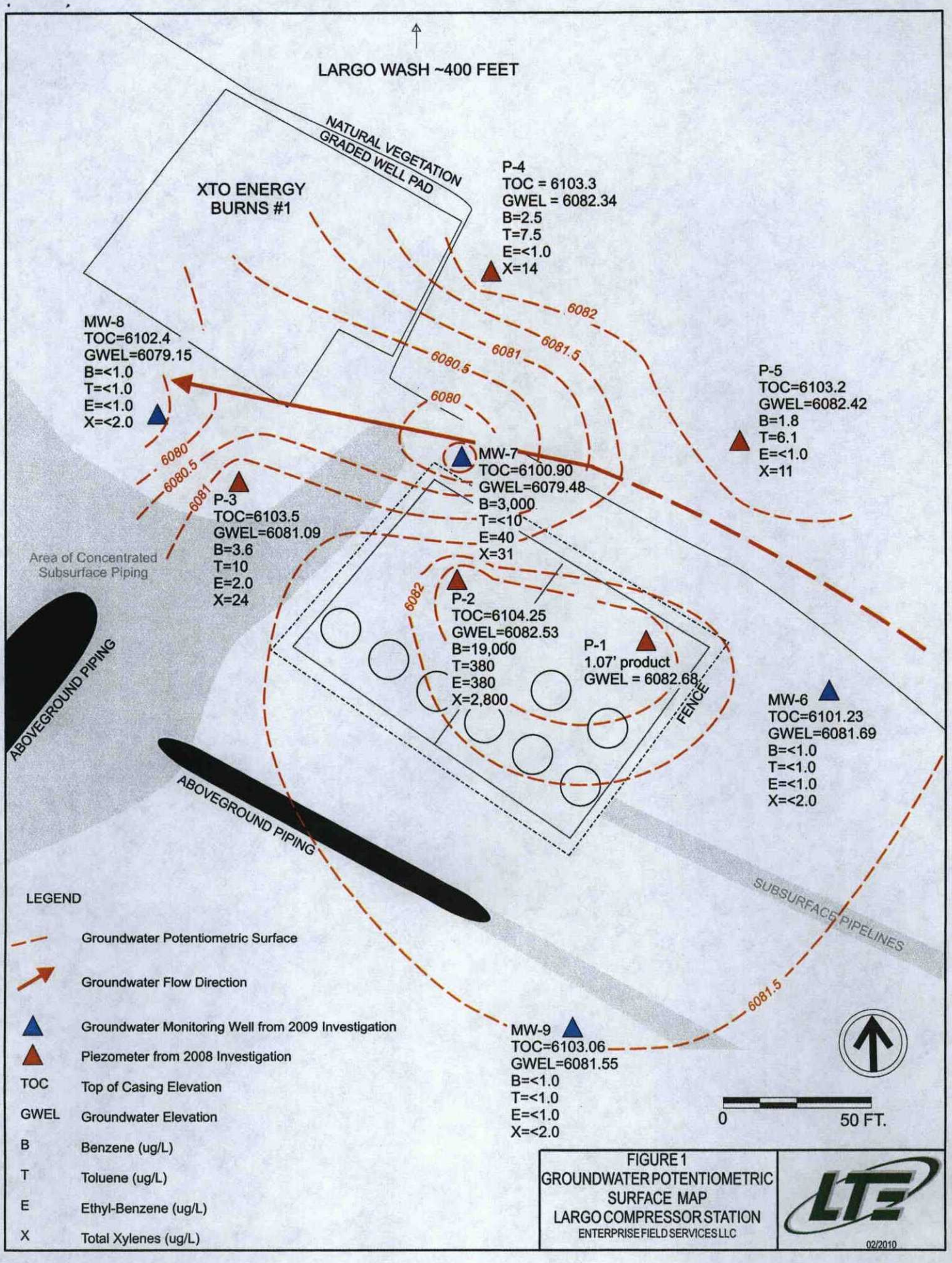

FIGURE 1
GROUNDWATER POTENTIOMETRIC SURFACE MAP
LARGO COMPRESSOR STATION
ENTERPRISE FIELD SERVICES LLC

LTE

02/2010

ATTACHMENTS

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LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: MW-6
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 13:50
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 19.54 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 27.75 ft | Product Thickness: ft
Water Column Height: 8.21 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☑ 3 to 5 Casing Volumes of Water Removal ☑ Stabilization of Indicator Parameters ☐ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
13:50	7.34	10.31	12.3				34	Cloudy/silty reddish brown
	7.44	10.52	12.8				34	"
	7.42	10.54	12.8				34	"
	7.45	10.58	13.3				34	"
	7.44	10.73	13.3				34	"
	7.45	10.61	13.3				34	recharging readily
	7.44	10.06	13.2				68	very silty
	7.43	10.00	13.3				68	"
	7.47	9.04	12.8				68	"
	7.41	8.92	13.1				68	"
	7.44	8.37	13				68	"
Final: 14:15	7.44	8.37	13				544	

COMMENTS:

Instrumentation: ☑ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☑ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: MW-6 | Sample Time: 14:15

Analysis Requested: ☑ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

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LT Environmental, Inc.
2243 Main Avenue, Suite 3
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WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: MW-7
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 12:50
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 21.42 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 28.1 ft | Product Thickness: ft
Water Column Height: 6.68 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☑ 3 to 5 Casing Volumes of Water Removal ☑ Stabilization of Indicator Parameters ☐ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
6.68 x .16	136.8 x 3	410	3.2 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
12:50	7.40	11.13	12.5				34	Dark cloudy, HC odor, sheen
	7.45	11.02	12.3				34	"
	7.57	11.09	13.0				34	"
	7.53	11.08	12.3				34	"
	7.58	11.41	13.4				34	"
	7.56	11.38	12.9				34	sheen
	7.60	11.11	13.0				34	"
	7.56	11.30	12.8				34	"
	7.59	11.36	12.9				34	"
	7.61	11.60	13.3				34	"
	7.61	11.33	13.1				34	"
	7.59	11.43	13				34	"
	7.61	11.31	12.7				34	
Final: 13:29	7.61	11.31	12.7				410	

COMMENTS:

Instrumentation: ☑ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☑ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: MW-7 | Sample Time: 13:29

Analysis Requested: ☑ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

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WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: MW-8
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 14:50
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 23.25 ft | Depth to Product: ____ ft
Well Diameter: 2" | Total Depth: 28.15 ft | Product Thickness: ____ ft
Water Column Height: 4.9 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other ____
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☑ 3 to 5 Casing Volumes of Water Removal ☑ Stabilization of Indicator Parameters ☐ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
4.9 x .16	100.3 x 3	301.05	2.35 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
14:50	7.66	10.28	12.7				34	Cloudy silty, reddish brown
	7.67	10.58	12.7				34	"
	7.66	10.73	13.4				34	"
	7.67	10.89	13.2				34	"
	7.68	11.03	13.4				34	"
	7.66	11.17	13.4				34	silty brown
	7.65	11.22	13.4				34	"
	7.67	11.19	13.1				34	"
	7.66	11.22	13.3				34	"
Final: 15:13	7.66	11.22	13.5				301.05	

COMMENTS:

Instrumentation: ☑ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☑ Temperature Meter ☐ Other ____

Water Disposal: On-site

Sample ID: MW-8 | Sample Time: 15:13

Analysis Requested: ☑ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other ____

Trip Blank: ____ | Duplicate Sample: ____

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LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: MW-9
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 14:20
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 21.51 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 31.81 ft | Product Thickness: ft
Water Column Height: 10.3 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☑ 3 to 5 Casing Volumes of Water Removal ☑ Stabilization of Indicator Parameters ☐ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.3 x .16	210.9 x 3	632.8	4.94 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
14:20	7.42	9.42	12.7				34	Cloudy silty, reddish brown
	7.45	9.28	12.7				34	"
	7.41	9.41	13.4				34	"
	7.43	9.40	13.2				34	"
	7.43	9.40	13.4				34	"
	7.45	9.45	13.4				68	silty brown
	7.42	9.40	13.4				68	"
	7.45	9.46	13.1				68	"
	7.44	9.49	13.3				68	"
	7.45	9.39	13.1				68	
	7.44	9.36	13.4				68	
	7.45	9.49	13.5				68	
Final: 14:47	7.45	9.49	13.5				632.8	

COMMENTS:

Instrumentation: ☑ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☑ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: MW-9 | Sample Time: 14:47

Analysis Requested: ☑ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: P-1
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 11:53
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 16.55 ft | Depth to Product: 15.48 ft
Well Diameter: 2" | Total Depth: 16.9 ft | Product Thickness: 1.07 ft
Water Column Height: 0.35 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☐ 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☐ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
Final:								

COMMENTS: Insufficient water to take parameters. No sample taken due to the presence of PSH.

Instrumentation: ☐ pH Meter ☐ DO Monitor ☐ Conductivity Meter ☐ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: Sample Time:

Analysis Requested: ☐ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: Duplicate Sample:

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
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WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: P-2
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 13:53:00 AM
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 21.72 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 23.86 ft | Product Thickness: ft
Water Column Height: 2.14 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☐ 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☑ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
Final:								

COMMENTS: Insufficient amount of water to measure parameters, grab sample only.

Instrumentation: ☐ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☐ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: P-2 | Sample Time: 13:55

Analysis Requested: ☐ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
(970) 385-1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: P-3
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 13:40:00 AM
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 22.41 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 24.17 ft | Product Thickness: ft
Water Column Height: 1.76 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☐ 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☑ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
Final:								

COMMENTS: Insufficient amount of water to measure parameters, grab sample only.

Instrumentation: ☐ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☐ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: P-3 | Sample Time: 13:45

Analysis Requested: ☐ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: P-4
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 13:30:00 AM
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 20.96 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 21.76 ft | Product Thickness: ft
Water Column Height: 0.8 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☐ 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☑ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
Final:								

COMMENTS: Insufficient amount of water to measure parameters, grab sample only.

Instrumentation: ☐ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☐ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: P-4 | Sample Time: 13:31

Analysis Requested: ☐ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096

WELL DEVELOPMENT AND SAMPLING LOG

Project Name: Largo GW Sample | Location: Largo Compressor Sta | Well No: P-5
Client: Enterprise Field Services | Date: 2/25/2010 | Time: 13:19:00 AM
Project Manager: Ashley Ager | Sampler's Name: Devin Hencmann

Measuring Point: TOC | Depth to Water: 20.78 ft | Depth to Product: ft
Well Diameter: 2" | Total Depth: 22.39 ft | Product Thickness: ft
Water Column Height: 1.61 ft

Sampling Method: ☐ Submersible Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Other
☑ Bottom Valve Bailer ☐ Double Check Valve Bailer

Criteria: ☐ 3 to 5 Casing Volumes of Water Removal ☐ Stabilization of Indicator Parameters ☑ Other bail dry

Water Volume in Well			
Gal/ft x ft of water	Gallons	Ounces	Volume to be removed
10.01 x .16	4.94 x 3	504.4	14.82 gal

Time (military)	pH (su)	SC (ms)	Temp (°C)	ORP (millivolts)	D.O. (mg/L)	Turbidity (NTU)	Vol Evac. oz	Comments/Flow Rate
Final:								

COMMENTS: Insufficient amount of water to measure parameters, grab sample only.

Instrumentation: ☐ pH Meter ☐ DO Monitor ☑ Conductivity Meter ☐ Temperature Meter ☐ Other

Water Disposal: On-site

Sample ID: P-5 | Sample Time: 13:19

Analysis Requested: ☐ BTEX ☐ VOCs ☐ Alkalinity ☐ TDS ☐ Cations ☐ Anions ☐ Nitrate ☐ Nitrite ☐ Metals
☐ Other

Trip Blank: | Duplicate Sample:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, March 03, 2010

Ashley Ager
LTE
2243 Main Ave Suite 3
Durango, CO 81301
TEL: (970) 946-1093
FAX

RE: Largo Compressor Sta

Order No.: 1002519

Dear Ashley Ager:

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 2/26/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Mar-10*

CLIENT: LTE
Project: Largo Compressor Sta
Lab Order: 1002519

Lab ID: 1002519-01 **Collection Date:** 2/25/2010 1:29:00 PM
Client Sample ID: MW-7 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	3000	50		µg/L	50	3/2/2010 3:06:06 AM
Toluene	ND	10		µg/L	10	3/2/2010 2:12:12 PM
Ethylbenzene	40	10		µg/L	10	3/2/2010 2:12:12 PM
Xylenes, Total	31	20		µg/L	10	3/2/2010 2:12:12 PM
Surr: 4-Bromofluorobenzene	109	65.9-130		%REC	10	3/2/2010 2:12:12 PM

Lab ID: 1002519-02 **Collection Date:** 2/25/2010 1:55:00 PM
Client Sample ID: P-2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	19000	500		µg/L	500	3/2/2010 3:13:05 PM
Toluene	380	100		µg/L	100	3/2/2010 3:43:30 PM
Ethylbenzene	380	100		µg/L	100	3/2/2010 3:43:30 PM
Xylenes, Total	2800	200		µg/L	100	3/2/2010 3:43:30 PM
Surr: 4-Bromofluorobenzene	108	65.9-130		%REC	100	3/2/2010 3:43:30 PM

Lab ID: 1002519-03 **Collection Date:** 2/25/2010 2:15:00 PM
Client Sample ID: MW-6 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	3/2/2010 4:06:27 AM
Toluene	ND	1.0		µg/L	1	3/2/2010 4:06:27 AM
Ethylbenzene	ND	1.0		µg/L	1	3/2/2010 4:06:27 AM
Xylenes, Total	ND	2.0		µg/L	1	3/2/2010 4:06:27 AM
Surr: 4-Bromofluorobenzene	96.9	65.9-130		%REC	1	3/2/2010 4:06:27 AM

Lab ID: 1002519-04 **Collection Date:** 2/25/2010 1:45:00 PM
Client Sample ID: P-3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	3.6	1.0		µg/L	1	3/2/2010 4:44:08 PM
Toluene	10	1.0		µg/L	1	3/2/2010 4:44:08 PM
Ethylbenzene	2.0	1.0		µg/L	1	3/2/2010 4:44:08 PM
Xylenes, Total	24	2.0		µg/L	1	3/2/2010 4:44:08 PM
Surr: 4-Bromofluorobenzene	155	65.9-130	S	%REC	1	3/2/2010 4:44:08 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Mar-10*

CLIENT: LTE
Project: Largo Compressor Sta

Lab Order: 1002519

Lab ID: 1002519-05 **Collection Date:** 2/25/2010 1:31:00 PM
Client Sample ID: P-4 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	2.5	1.0		µg/L	1	3/2/2010 5:44:45 PM
Toluene	7.5	1.0		µg/L	1	3/2/2010 5:44:45 PM
Ethylbenzene	ND	1.0		µg/L	1	3/2/2010 5:44:45 PM
Xylenes, Total	14	2.0		µg/L	1	3/2/2010 5:44:45 PM
Surr: 4-Bromofluorobenzene	99.9	65.9-130		%REC	1	3/2/2010 5:44:45 PM

Lab ID: 1002519-06 **Collection Date:** 2/25/2010 1:19:00 PM
Client Sample ID: P-5 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.8	1.0		µg/L	1	3/2/2010 6:15:07 PM
Toluene	6.1	1.0		µg/L	1	3/2/2010 6:15:07 PM
Ethylbenzene	ND	1.0		µg/L	1	3/2/2010 6:15:07 PM
Xylenes, Total	11	2.0		µg/L	1	3/2/2010 6:15:07 PM
Surr: 4-Bromofluorobenzene	98.6	65.9-130		%REC	1	3/2/2010 6:15:07 PM

Lab ID: 1002519-07 **Collection Date:** 2/25/2010 2:47:00 PM
Client Sample ID: MW-9 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	3/2/2010 11:48:22 PM
Toluene	ND	1.0		µg/L	1	3/2/2010 11:48:22 PM
Ethylbenzene	ND	1.0		µg/L	1	3/2/2010 11:48:22 PM
Xylenes, Total	ND	2.0		µg/L	1	3/2/2010 11:48:22 PM
Surr: 4-Bromofluorobenzene	90.0	65.9-130		%REC	1	3/2/2010 11:48:22 PM

Lab ID: 1002519-08 **Collection Date:** 2/25/2010 3:13:00 PM
Client Sample ID: MW-8 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	3/3/2010 12:18:39 AM
Toluene	ND	1.0		µg/L	1	3/3/2010 12:18:39 AM
Ethylbenzene	ND	1.0		µg/L	1	3/3/2010 12:18:39 AM
Xylenes, Total	ND	2.0		µg/L	1	3/3/2010 12:18:39 AM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	1	3/3/2010 12:18:39 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: LTE
Project: Largo Compressor Sta **Work Order:** 1002519

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1002519-03A MSD		*MSD*				Batch ID:	**R37565**	Analysis Date:		3/2/2010 5:37:27 AM	
Benzene	20.98	µg/L	1.0	20	0.092	104	85.9	113	5.07	27	
Toluene	20.67	µg/L	1.0	20	0	103	86.4	113	8.00	19	
Ethylbenzene	20.35	µg/L	1.0	20	0	102	83.5	118	6.97	10	
Xylenes, Total	60.88	µg/L	2.0	60	0	101	83.4	122	4.66	13	
Sample ID: 1002519-08A MSD		*MSD*				Batch ID:	**R37588**	Analysis Date:		3/2/2010 8:46:53 PM	
Benzene	19.38	µg/L	1.0	20	0	96.9	85.9	113	4.81	27	
Toluene	18.55	µg/L	1.0	20	0	92.8	86.4	113	6.42	19	
Ethylbenzene	18.61	µg/L	1.0	20	0	93.1	83.5	118	6.44	10	
Xylenes, Total	56.60	µg/L	2.0	60	0	94.3	83.4	122	5.01	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37565**	Analysis Date:		3/1/2010 9:25:06 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37588**	Analysis Date:		3/2/2010 9:39:39 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R37565**	Analysis Date:		3/2/2010 6:07:50 AM	
Benzene	22.44	µg/L	1.0	20	0	112	85.9	113			
Toluene	22.13	µg/L	1.0	20	0	111	86.4	113			
Ethylbenzene	21.98	µg/L	1.0	20	0.148	109	83.5	118			
Xylenes, Total	65.70	µg/L	2.0	60	0	110	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R37588**	Analysis Date:		3/2/2010 9:17:15 PM	
Benzene	21.05	µg/L	1.0	20	0	105	85.9	113			
Toluene	20.63	µg/L	1.0	20	0	103	86.4	113			
Ethylbenzene	20.52	µg/L	1.0	20	0	103	83.5	118			
Xylenes, Total	61.99	µg/L	2.0	60	0	103	83.4	122			
Sample ID: 1002519-03A MS		*MS*				Batch ID:	**R37565**	Analysis Date:		3/2/2010 5:07:07 AM	
Benzene	19.94	µg/L	1.0	20	0.092	99.3	85.9	113			
Toluene	19.08	µg/L	1.0	20	0	95.4	86.4	113			
Ethylbenzene	18.98	µg/L	1.0	20	0	94.9	83.5	118			
Xylenes, Total	58.11	µg/L	2.0	60	0	96.9	83.4	122			
Sample ID: 1002519-08A MS		*MS*				Batch ID:	**R37588**	Analysis Date:		3/2/2010 8:16:27 PM	
Benzene	20.33	µg/L	1.0	20	0	102	85.9	113			
Toluene	19.78	µg/L	1.0	20	0	98.9	86.4	113			
Ethylbenzene	19.85	µg/L	1.0	20	0	99.3	83.5	118			
Xylenes, Total	59.51	µg/L	2.0	60	0	99.2	83.4	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name LTE | Date Received: 2/26/2010

Work Order Number 1002519 | Received by: TLS

Checklist completed by: [signature] Signature | 2/26/10 Date | Sample ID labels checked by: [initials] Initials

Matrix: | Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
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 ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	5.7°	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: LTE

Mailing Address: 2243 Main Ave. St. 3
Durango CO 81301

Phone #: 970-946-1093

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo Compressor Stn

Project #:

Project Manager: Ashley Ager

Sampler: Devin Heermann/Brooke Herb

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1002514	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BTEX 8021				Air Bubbles (Y or N)
2/25/10	1329	Aq	MW-7	40mL/3	none	1												X				N
2/25/10	1355	Aq	P-2	40mL/3	$HgCl_2$	2												X				N
2/25/10	1415	Aq	MW-6	40mL/3	HCL	3												X				N
2/25/10	1345	AQ	P-3	40mL/2	$HgCl_2$/HCL	4												X				N
2/25/10	1331	AQ	P-4	40mL/1	HCL	5												X				Y
2/25/10	1319	AQ	P-5	40mL/1	HCL	6												X				N
2/25/10	1447	Aq	MW-9	40mL/3	HCL	7												X				N
2/25/10	1513	Aq	MW-8	40mL/3	HCL	8												X				N

Date	Time	Relinquished by:	Received by:	Date	Time
2/25/10	1850			2/26/10	930
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please forward results to Ager@ltenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.