

**GW-045**

**INSPECT  
KUTZ II DRAIN SUMP**

**DATE:  
06.22.12**



COMPLIANCE / ENGINEERING / REMEDIATION

**LT Environmental, Inc.**

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

June 22, 2012

RECEIVED OCD

2012 JUN 25 P 2:38

Mr. Brandon Powell  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, NM 87410

**RE: Soil Sampling Report and Revised C-141  
Williams Four Corners, LLC  
Kutz Canyon Gas Plant, GW-045  
San Juan County, New Mexico**

Dear Mr. Powell:

On behalf of Williams Four Corners, LLC (Williams), LT Environmental, Inc. (LTE) submits the attached soil sampling report and revised C-141 for the Kutz Canyon Gas Plant.

If you have any questions, please do not hesitate to call me at 970-385-1096 or Matt Webre at Williams at 505-632-4442.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'Ashley L. Ager'. The signature is written in a cursive, flowing style.

Ashley L. Ager  
Senior Geologist

cc:

Leonard Lowe, NMOCD  
Matt Webre, Williams

Attachments (1)



June 22, 2012

Mr. Matt Webre  
Williams Four Corners, LLC  
188 County Road 4900  
Bloomfield, New Mexico 87413

**RE: Soil Sampling Report - Wastewater Vault Removal  
Kutz II Drain Sump  
Williams Four Corners, LLC  
Kutz Canyon Gas Plant, San Juan County, New Mexico**

Dear Mr. Webre:

Williams Four Corners, LLC (Williams) retained LT Environmental, Inc. (LTE) to sample soil at the Kutz Canyon Gas Plant (Site) after Williams observed hydrocarbon-stained soil during removal of three below-grade wastewater drain vaults at the Site. This report presents the results of subsequent excavation, subsurface investigation, and soil sampling conducted at the Kutz II Drain Sump (Kutz II DS) and serves as the final report for the wastewater vault removal project. An updated C-141, presenting only the Kutz II DS sampling results, is attached as Attachment A.

### **Site Description and History**

The Site is a natural gas processing plant located in the northwest quarter of the northwest quarter of Section 13, Township 28 North, Range 11 West in San Juan County, New Mexico as depicted in Figure 1. The plant operates under discharge permit number GW-045 issued by the NMOCD on March 7, 2008. The discharge plan indicates no water wells exist within a 1-mile radius of the Site and groundwater is greater than 100 feet below ground surface (bgs). The nearest watercourse is a tributary of Kutz Canyon located 1,087 feet southwest of the facility.

The three below-grade wastewater drain vaults that were removed are referenced as Kutz I Below Grade Drain Vault (Kutz I), Kutz II Below Grade Drain Vault (Kutz II), and Kutz II DS as depicted on Figure 2. On February 2, 2012, LTE submitted a Form C-141, *Release Notification and Corrective Action* to Mr. Brandon Powell of the New Mexico Oil Conservation Division (NMOCD) as initial release notification. Impacted soils associated with Kutz I and Kutz II were excavated and addressed in a previous report and a revised C-141 submitted to the NMOCD on March 20, 2012.

### **Excavation**

Williams excavated hydrocarbon-stained soil surrounding the Kutz II DS and temporarily stockpiled the impacted soil within lined roll-off bins. The excavation extent originally documented in the report dated March 21, 2012 was approximate. The actual extent of the Kutz II DS excavation was 17 feet long by 11 feet wide by 8 feet deep. Excavation greater than 8 feet



bgs was restricted by health and safety concerns. Additional engineering, shoring, and/or benching are required to excavate the area deeper than 8 feet bgs.

Stockpiled soil was sampled and analyzed for waste characterization including benzene, toluene, ethylbenzene, and total xylenes (BTEX); total petroleum hydrocarbons (TPH); toxicity characteristic leaching procedure (TCLP) for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 1311/8260; TCLP Resource Conservation and Recovery Act (RCRA) 8 metals by USEPA Methods 1311, 6010B, and 7470A; reactivity, corrosivity, and ignitibility (RCI) by USEPA Methods 9034/9012B, 9045D, and D93/101 respectively; and paint filter by USEPA Method 9095B. The analytical laboratory report for waste characterization is included in Attachment B. Following receipt of the analytical results, soil was disposed at the Waste Management San Juan County Landfill located in Aztec, New Mexico.

### **Soil Sampling**

On January 26, 2012, LTE collected a composite sample from the initial Kutz II DS excavation using a hand auger. The Kutz II DS excavation was initially 5 feet bgs; however, 2 feet of backfill had been placed into the excavation prior to sampling. The total depth of the excavation at the time of sampling was approximately 3 feet bgs. The composite sample was collected from 2 feet below the clean backfill material (5 feet bgs). LTE returned to the Site on March 1, 2012 to collect a second composite soil sample from the floor of the Kutz II DS excavation after the preliminary soil analytical results prompted Williams to remove the clean backfill material and an additional volume of impacted soil from 5 to 8 feet bgs. The floor sample on March 1, 2012, was collected within the open excavation from approximately 8 feet bgs. Composite soil samples were collected by depositing five aliquots of soil into a plastic bag, thoroughly mixing the contents, and placing a portion of the composite soil into 4-ounce glass jars. Soil samples were stored on ice (4 degrees Celsius) and shipped to ESC Laboratory Sciences (ESC) in Mt. Juliet, Tennessee, following strict chain-of-custody procedures. The confirmation soil samples were analyzed for BTEX by USEPA Method 8021B; TPH by USEPA Method 8015B; and chloride (only for the sample on January 26, 2012) by USEPA Method 300.1.

### **Subsurface Investigation**

Soil analytical results from the sampling event on March 1, 2012 event indicated elevated concentrations of BTEX and TPH remained in the excavation. Because additional excavation would have required implementation of health and safety and engineering controls, Williams decided to investigate the vertical extent of soil impacts. On May 10, 2012, LTE used a hand auger to collect soil samples from beneath the floor of the excavation and then approximately every two feet thereafter for lithologic classification (Unified Soil Classification System [USCS]) and field screening in an attempt to delineate the vertical extent of soil impacts. In addition, any soil in which changes were observed, such as color, odor, composition, or texture, were sampled and screened. Screening was conducted with a photo-ionization detector (PID) equipped with a 10.6 electron volt lamp in accordance with the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases*, August 13, 1993. Four subsurface soil samples were



collected and submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, to be analyzed for BTEX by USEPA Method 8021B and TPH by USEPA Method 8015B.

## Results

Based on the NMOCD site ranking criteria determined for the Site: (1) depth to water greater than 100 feet below ground surface, (2) no private, domestic, or water sources located within 1,000 feet, and (3) no surface water bodies located within 1,000 feet, the remediation action levels were determined to be 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, and 5,000 mg/kg for total TPH. The remediation target for chloride was determined to be 250 mg/kg based on other applicable NMOCD remediation/closure requirements. A summary of soil sample results as compared to the NMOCD action levels are presented in Table 1. The analytical laboratory reports are included in Attachment B.

Composite soil samples collected on January 26, 2012 and March 1, 2012 exceeded the NMOCD action levels for benzene, total BTEX, and TPH. Chloride concentrations were below 250 mg/kg. On May 10, 2012, total BTEX was detected at a concentration of 263.1 mg/kg at 10.25 feet bgs, which exceeded the NMOCD action level of 50 mg/kg. No other soil samples collected on May 10, 2012 exceeded the NMOCD action levels. BTEX and TPH concentrations consistently decreased with depth and were below the NMOCD action levels for BTEX with a total BTEX concentration of 30 mg/kg at 13.75 feet bgs, which is 5.75 feet below the floor of the excavation. At 17.75 feet bgs, vertical progress was halted due to auger refusal. A small sample of semi-consolidated greenish gray clayey silt was recovered and identified as a weathered shale. The lithologic log is attached as Attachment C.

## Conclusions

Williams removed as much impacted soil as practical surrounding the former Kutz II DS wastewater drain vault. Although the concentrations of benzene, BTEX, and TPH in the soil on the floor of the excavation exceeded the NMOCD action levels, results from sampling of subsurface soil indicate only a small volume of impacted soil remains at the Site and vertical migration is restricted by the presence of bedrock.

Concentrations of BTEX and TPH in soil beneath the Kutz II DS excavation consistently decreased with depth and are below the NMOCD remediation action levels for BTEX and TPH within a maximum of 5.75 feet of the current excavation floor. Significant decreases in detected concentrations of total BTEX (263.1 mg/kg to 30 mg/kg) and TPH (4,050 mg/kg to 753 mg/kg) were observed between 10.25 and 13.75 feet bgs. Additional soil removal would require health, safety, and engineering controls in the form of shoring or benching. These measures would require significant effort to remove, at most, only 5 feet of additional soil. No groundwater was encountered and the bedrock will restrict vertical migration of remaining contaminants.



## Recommendations

Backfilling of the Kutz II DS excavation is recommended. Williams has made a best effort to remove a majority of the impacted soil. The remaining impacted soil interval is approximately 3 feet to 5 feet thick and exists above a weathered shale layer. The depth to groundwater is estimated to be greater than 100 feet bgs, and migration of remaining contaminants is unlikely based on the subsurface geology. The revised C-141 in Attachment A serves as final documentation for Kutz II DS.

LTE appreciates the opportunity to provide these environmental services to Williams. If you have any questions or comments regarding this report, do not hesitate to contact me at (970) 385-1096 or via email at [aager@ltenv.com](mailto:aager@ltenv.com).

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'Ashley L. Ager'. The signature is written in a cursive, flowing style.

Ashley L. Ager, M.S.  
Senior Geologist

## Attachments

Figure 1      Site Map

Figure 2      Site Location Map

Table 1      Excavation Soil Analytical Results – Kutz II Drain Sump

Attachment A Revised C-141

Attachment B Laboratory Analytical Reports

Attachment C Lithologic Log

## FIGURES

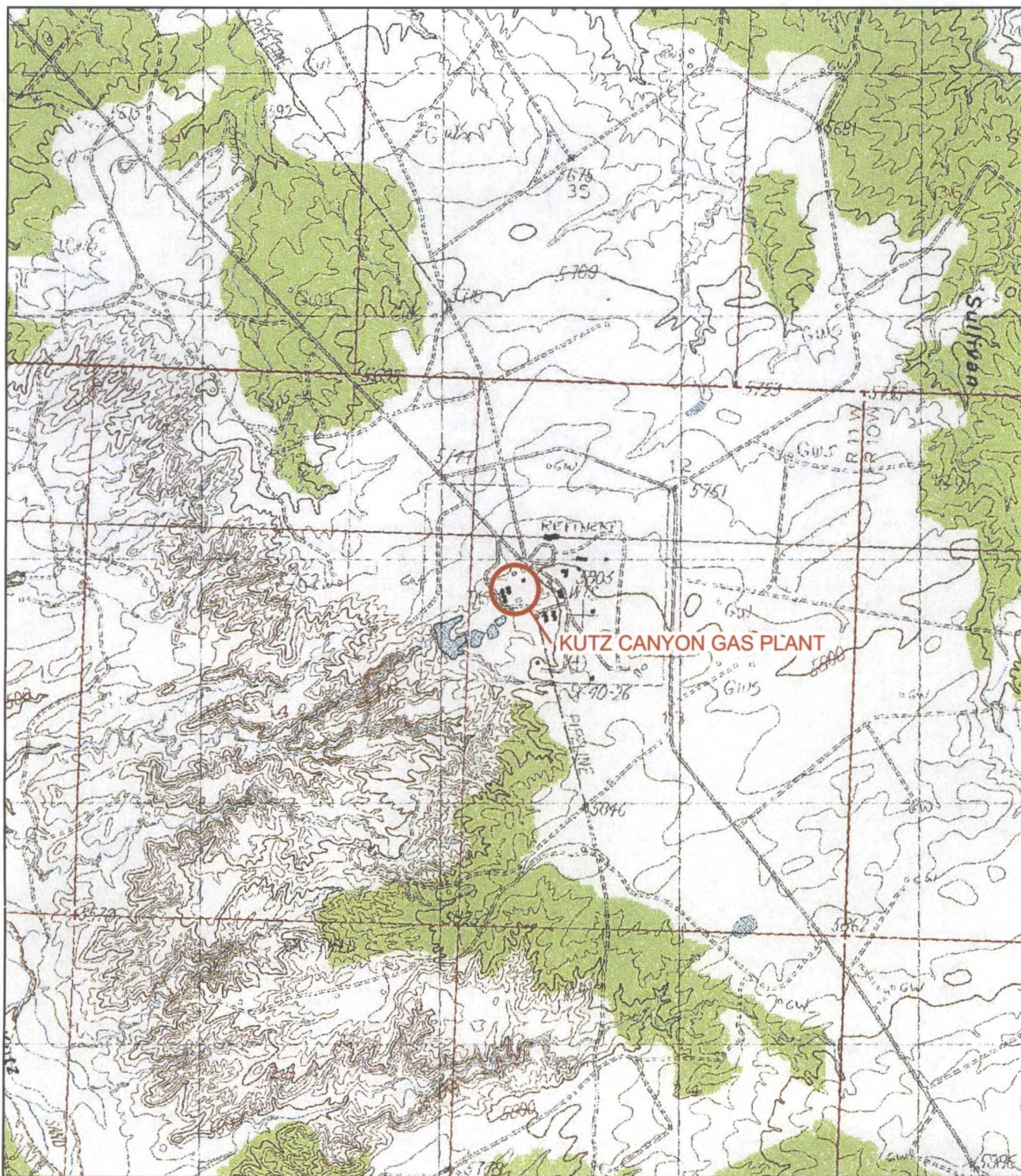


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

# LEGEND

○ SITE LOCATION

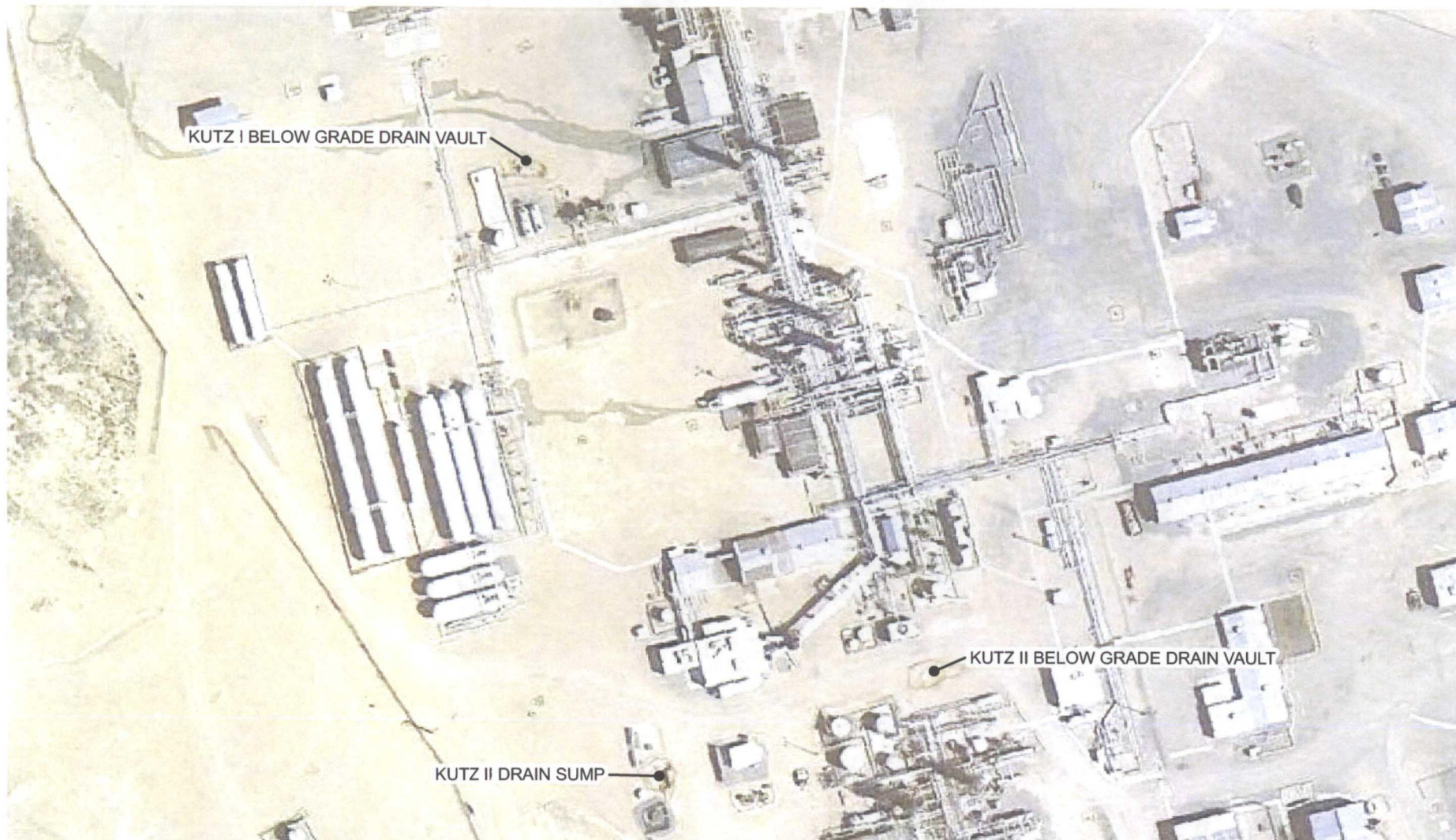
0 2,000 4,000  
Feet



FIGURE 1  
SITE LOCATION MAP  
KUTZ CANYON GAS PLANT  
SAN JUAN COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS, LLC





# LEGEND

- SITE FEATURE

IMAGE COURTESY OF GOOGLE EARTH, 06/10/2011

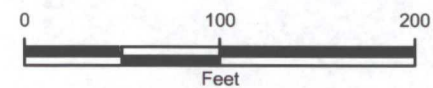


FIGURE 2  
SITE MAP  
KUTZ CANYON GAS PLANT  
SAN JUAN COUNTY, NEW MEXICO

WILLIAMS FOUR CORNERS, LLC



## TABLE

TABLE 1

**EXCAVATION SOIL ANALYTICAL RESULTS  
KUTZ II DRAIN SUMP  
KUTZ CANYON GAS PLANT  
WILLIAMS FOUR CORNERS, LLC**

Sample ID	Date Sampled	Sample Depth BGS (ft)	Field Headspace Reading (ppm)	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)
Kutz II DS	1/26/2012	5.00	3,086	94	<b>12</b>	140	20	290	<b>462</b>	5,500	800	89	<b>6,389</b>
Kutz II DS	3/1/2012	8.00	1,720	NA	<b>21</b>	99	21	170	<b>311</b>	5,200	930	58	<b>6,188</b>
S1 - 2.25'	5/10/2012	10.25	3,528	NA	6.1	91	16	150	<b>263.1</b>	3,500	190	360	4,050
S2 - 5.75'	5/10/2012	13.75	1,396	NA	<0.48	6.7	2.3	21	30-30.48	560	53	140	753
S3 - 8.00'	5/10/2012	16.00	956	NA	<0.47	0.74	<0.47	3.5	4.24-5.18	130	14	65	209
S4 - 9.70'	5/10/12	17.70	503	NA	<0.094	0.11	<0.094	0.23	0.34-0.528	15	<9.8	<49	15-73.8
<b>NMOCD Standard</b>				<b>250</b>	<b>10</b>	NE	NE	NE	<b>50</b>	NE	NE	NE	<b>5,000</b>

**Notes:**

BGS - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

ft - feet below ground surface

GRO - gasoline range organics

MRO - motor oil range organics

mg/kg - milligrams per kilogram

NA - not analyzed

NE - not established

NMOCD - New Mexico Oil Conservation Commission

ppm - parts per million

TPH - total petroleum hydrocarbons

&lt; - indicates result is less than the stated laboratory reporting limit

**Bold** - indicates sample exceeds NMOCD standard

**ATTACHMENT A**

**REVISED C-141**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company: Williams Four Corners, LLC	Contact: Matt Webre	
Address: 188 CR 4900, Bloomfield, NM 87413	Telephone No.: 505-632-4442	
Facility Name: Kutz Canyon Gas Plant	Facility Type: Natural Gas Processing Plant	
Surface Owner: Bureau Of Land Management	Mineral Owner: Bureau of Land Management	API No. N/A (GW-045)

**LOCATION OF RELEASE**

Unit Letter NW/4	Section: 13	Township 28 N	Range 11 W	Feet from the 1,024	North/South Line North	Feet from the 555	East/West Line West	County San Juan County
---------------------	----------------	------------------	---------------	------------------------	---------------------------	----------------------	------------------------	---------------------------

Latitude 36.66672 Longitude -107.96226

**NATURE OF RELEASE**

Type of Release: Pit liner leak at below grade drain sump	Volume of Release: unknown	Volume Recovered: no liquids recovered/soil excavated and described in attached report
Source of Release: Gas Plant Wastewater	Date and Hour of Occurrence: Unknown/historical	Date and Hour of Discovery: 01/20/12; 15:30
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Not applicable	
By Whom? Not applicable	Date and Hour Not applicable	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Not applicable	

If a Watercourse was Impacted, Describe Fully.\*  
Not applicable


**Describe Cause of Problem and Remedial Action Taken.\***

While removing below grade concrete drain sump for upgrades, Williams personnel identified historically impacted soils. Williams excavated as much soil as was practical and then used a hand auger to profile the subsurface and collect soil samples for vertical delineation. Excavated soil was transported to the Waste Management San Juan County Landfill in Aztec, New Mexico following the receipt of waste profile laboratory analytical results.

**Describe Area Affected and Cleanup Action Taken.\***

Williams removed concrete drain sump from service and excavated the surrounding soil. Visual staining of subsurface soil surrounding concrete drain sump liner was observed. As much impacted soil as was practical was excavated and transported for disposal. Confirmation soil sampling results are presented in the attached report.

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 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 federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Matt Webre	Approved by Environmental Specialist:		
Title: Environmental Specialist	Approval Date:	Expiration Date:	
E-mail Address: Matt.Webre@williams.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6/21/12	Phone: 505-632-4442		

Attach Additional Sheets If Necessary

**ATTACHMENT B**  
**LABORATORY ANALYTICAL REPORTS**

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

### Report Summary

Wednesday February 01, 2012

Report Number: L557813

Samples Received: 01/28/12

Client Project: 034012001

Description: Kutz Gas Plant

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Mt. Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

February 01, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 28, 2012  
Description : Kutz Gas Plant  
Sample ID : SOIL STOCKPILE  
Collected By : Sam LaRue  
Collection Date : 01/26/12 13:10

ESC Sample # : L557813-01

Site ID : KUTZ GAS PLANT

Project : 034012001

Parameter	Result	Det. Limit	Units	Limit	Method	Date/Time	By	Dil
Corrosivity	Non-Corrosiv				9045D	01/31/12 0948	GWA	1
Ignitability	See Footnote		Deg. F		D93/101	01/29/12 1212	MCG	1
Paint Filter Test	See Footnote		%		9095B	01/29/12 1217	MCG	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/kg		9012B	02/01/12 1109	CBD	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/kg		9034/90	01/31/12 1747	MCG	1
TCLP Extraction	-				1311	01/29/12 0940	MVE	1
Mercury	BDL	0.0010	mg/l	0.20	7470A	01/31/12 1032	MDC	1
Arsenic	BDL	0.050	mg/l	5.0	6010B	01/31/12 0936	MWB	1
Barium	1.1	0.15	mg/l	100	6010B	01/31/12 0936	MWB	1
Cadmium	BDL	0.050	mg/l	1.0	6010B	01/31/12 0936	MWB	1
Chromium	BDL	0.050	mg/l	5.0	6010B	01/31/12 0936	MWB	1
Lead	BDL	0.050	mg/l	5.0	6010B	01/31/12 0936	MWB	1
Selenium	BDL	0.050	mg/l	1.0	6010B	01/31/12 0936	MWB	1
Silver	BDL	0.050	mg/l	5.0	6010B	01/31/12 0936	MWB	1
TCLP ZHE Extraction	-				1311	01/30/12 0920	LJN	1
TCLP Volatiles								
Benzene	BDL	0.050	mg/l	0.50	8260B	01/30/12 2152	DP	1
Carbon tetrachloride	BDL	0.050	mg/l	0.50	8260B	01/30/12 2152	DP	1
Chlorobenzene	BDL	0.050	mg/l	100	8260B	01/30/12 2152	DP	1
Chloroform	BDL	0.25	mg/l	6.0	8260B	01/30/12 2152	DP	1
1,2-Dichloroethane	BDL	0.050	mg/l	0.50	8260B	01/30/12 2152	DP	1
1,1-Dichloroethene	BDL	0.050	mg/l	0.70	8260B	01/30/12 2152	DP	1
2-Butanone (MEK)	BDL	0.50	mg/l	200	8260B	01/30/12 2152	DP	1
Tetrachloroethene	BDL	0.050	mg/l	0.70	8260B	01/30/12 2152	DP	1
Trichloroethene	BDL	0.050	mg/l	0.50	8260B	01/30/12 2152	DP	1
Vinyl chloride	BDL	0.050	mg/l	0.20	8260B	01/30/12 2152	DP	1
Surrogate Recovery								
Toluene-d8	98.9		% Rec.	114.	8260B	01/30/12 2152	DP	1
Dibromofluoromethane	105.		% Rec.	125.	8260B	01/30/12 2152	DP	1
a,a,a-Trifluorotoluene	99.6		% Rec.	114.	8260B	01/30/12 2152	DP	1
4-Bromofluorobenzene	96.8		% Rec.	128.	8260B	01/30/12 2152	DP	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Limit - Maximum Contaminant Level as established by the US EPA

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 02/01/12 16:08 Printed: 02/01/12 16:14

L557813-01 (PAINT) - Contains No Free Liquid

L557813-01 (IGNITABILITY) - Did Not Ignite @ 170 F

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L557813-01	WG576265	SAMP	Vinyl chloride	R2018572	L1

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
L1	(ESC) The associated batch LCS exceeded the upper control limit, which indicates a high bias; The sample analyte was "not detected" and is therefore unaffected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

### Report Summary

Monday February 06, 2012

Report Number: L558567

Samples Received: 01/28/12

Client Project: 034012001

Description: Kutz Gas Plant

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Daphne Richards , ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# REPORT OF ANALYSIS

February 06, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 28, 2012  
Description : Kutz Gas Plant  
Sample ID : SOIL STOCKPILE  
Collected By : Sam LaRue  
Collection Date : 01/26/12 13:10

ESC Sample # : L558567-01

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	85.		%	2540G	02/06/12	1
TPH (GC/FID) Low Fraction	1800	24.	mg/kg	8015D/GRO	02/03/12	200
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (FID)	90.9		% Rec.	602/8015	02/03/12	200
TPH (GC/FID) High Fraction	240	47.	mg/kg	3546/DRO	02/06/12	10
Surrogate recovery(%) o-Terphenyl	88.3		% Rec.	3546/DRO	02/06/12	10

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 02/06/12 15:48 Printed: 02/06/12 16:00

CSS7813

**Troy Dunlap**

---

**From:** Daphne Richards  
**Sent:** Friday, January 27, 2012 1:14 PM  
**To:** Login  
**Subject:** Rush arriving 1/28 LTENVCO

We will receive 1SS on 1/28 from LTENVCO for TCLP metals, TCLP VOC's, IGN, CORR, REACTCN, REACTS and PAINT.. Please log as R4's

thanks

Daphne Richards  
ESC Lab Sciences  
(800) 767-5859 ext 9662  
Direct: (615) 773-9662  
[drichards@esclabsciences.com](mailto:drichards@esclabsciences.com)

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Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

### Report Summary

Wednesday February 08, 2012

Report Number: L559217

Samples Received: 01/28/12

Client Project: 034012001

Description: Kutz Gas Plant

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Daphne Richards , ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

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Est. 1970

# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 28, 2012  
Description : Kutz Gas Plant  
Sample ID : SOIL STOCKPILE  
Collected By : Sam LaRue  
Collection Date : 01/26/12 13:10

ESC Sample # : L559217-01

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.		%	2540G	02/08/12	1
Benzene	1.3	0.057	mg/kg	8021B	02/07/12	100
Toluene	7.5	0.57	mg/kg	8021B	02/07/12	100
Ethylbenzene	3.0	0.057	mg/kg	8021B	02/07/12	100
Total Xylene	24.	0.17	mg/kg	8021B	02/07/12	100
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene (PID)	100.		% Rec.	8021B	02/07/12	100

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 02/08/12 12:57 Printed: 02/08/12 14:10

## **Matt Shacklock**

---

**From:** Matt Shacklock  
**Sent:** Thursday, February 02, 2012 3:32 PM  
**To:** Daphne Richards; Login; Sample Storage  
**Subject:** RE: Relog L557813 LTENVCO

Done

Samples storage please bring 3 4oz containers to login to be relabeled

---

**From:** Daphne Richards  
**Sent:** Thursday, February 02, 2012 2:10 PM  
**To:** Login  
**Subject:** Relog L557813 LTENVCO

Please relog L557813 for GRO and DRO

Thanks

Daphne Richards  
ESC Lab Sciences  
(800) 767-5859 ext 9662  
Direct: (615) 773-9662  
[drichards@esclabsciences.com](mailto:drichards@esclabsciences.com)

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Company Name/Address  <b>LT Environmental, Inc.</b> <b>2243 Main Avenue, Ste. 3</b> <b>Durango, CO 81301</b>				Alternate Billing  Report to: <u>Ashley Ager</u> E-mail to: <u>ager@ltenv.com</u>				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">             TCLP - Vols              TCLP - PCRA 8 Metals              reactivity              corrosivity              ignitability              paint filter           </div> <div style="width: 100%;"></div> </div>								Chain of Custody Page <u>1</u> of <u>1</u>  <b>B115</b>  Prepared by:  <b>ENVIRONMENTAL Science corp</b> 12065 Lebanon Road Mt. Juliet TN 37122  Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859 <span style="float: right;">LSS9217</span>			
Project Description: <u>Kutz Gas Plant</u>				City/State Collected:															
PHONE: 970-946-1093		Client Project No. <u>034012001</u>		Lab Project #															
FAX: 970-385-1873																			
Collected by: <u>Sam LaRue</u>		Site/Facility ID# <u>Kutz Gas Plant</u>		P.O.#															
Collected by (signature):  <u>SL RLR</u>		<input checked="" type="checkbox"/> <b>Rush?</b> (Lab MUST be Notified) _____ Next Day ..... 100% _____ Two Day ..... 50% <input checked="" type="checkbox"/> Three Day ..... 25%		Date Results Needed		No													
				ASAP		of													
Packed on Ice N <u>Y</u> <input checked="" type="checkbox"/>				Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes													

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs							Remarks/contaminant	Sample # (lab only)
soil stockpile	Comp	SS	—	<del>13:10</del> 1/24/12	13:10	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Rush - 01	<del>SS7813</del> 01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by: (Signature) <u>SL RLR</u>	Date: <u>1/27/12</u>	Time: <u>14:00</u>	Received by: (Signature)	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____	Condition (lab use only)
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>2.7°C</u>	Bottles Received: <u>5</u>
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>1-28-12</u>	Time: <u>0900</u>
				pH Checked:	NCF:

**Andy Vann**

---

**From:** Daphne Richards  
**Sent:** Tuesday, February 07, 2012 1:19 PM  
**To:** Login; Sample Storage  
**Cc:** JD Gentry  
**Subject:** Relog L557813 LTENVCO Rush R2

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Please relog L557813 for BTEX and TS. Log as R2 due 2/8

thanks

Daphne Richards  
ESC Lab Sciences  
(800) 767-5859 ext 9662  
Direct: (615) 773-9662  
[drichards@esclabsciences.com](mailto:drichards@esclabsciences.com)

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Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

### Report Summary

Wednesday February 08, 2012

Report Number: L558062

Samples Received: 01/31/12

Client Project: 034012001

Description: Kutz Gas Plant

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Daphne Richards , ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ\_I S.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 12:30

ESC Sample # : L558062-01

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	88.	10.	mg/kg	9056	02/01/12	1
Total Solids	88.		%	2540G	02/07/12	1
Benzene	BDL	0.0028	mg/kg	8021/8015	01/31/12	5
Toluene	BDL	0.028	mg/kg	8021/8015	01/31/12	5
Ethylbenzene	0.025	0.0028	mg/kg	8021/8015	01/31/12	5
Total Xylene	1.2	0.0086	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	24.	0.57	mg/kg	GRO	01/31/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	94.5		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	95.2		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	230	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	120	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	76.6		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I N.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 12:30

ESC Sample # : L558062-02

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	62.	10.	mg/kg	9056	02/01/12	1
Total Solids	86.		%	2540G	02/07/12	1
Benzene	BDL	0.0029	mg/kg	8021/8015	01/31/12	5
Toluene	BDL	0.029	mg/kg	8021/8015	01/31/12	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	01/31/12	5
Total Xylene	0.13	0.0088	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	18.	0.58	mg/kg	GRO	01/31/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	95.9		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	96.0		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	150	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	88.	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	70.0		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I E.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 12:30

ESC Sample # : L558062-03

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	82.	10.	mg/kg	9056	02/01/12	1
Total Solids	85.		%	2540G	02/07/12	1
Benzene	BDL	0.0029	mg/kg	8021/8015	01/31/12	5
Toluene	BDL	0.029	mg/kg	8021/8015	01/31/12	5
Ethylbenzene	BDL	0.0029	mg/kg	8021/8015	01/31/12	5
Total Xylene	0.14	0.0088	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	8.5	0.59	mg/kg	GRO	01/31/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	95.9		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	96.5		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	240	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	170	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	86.6		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I W.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 12:30

ESC Sample # : L558062-04

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	160	10.	mg/kg	9056	02/02/12	1
Total Solids	85.		%	2540G	02/07/12	1
Benzene	6.4	0.10	mg/kg	8021/8015	01/31/12	200
Toluene	150	25.	mg/kg	8021/8015	02/05/12	5000
Ethylbenzene	34.	0.10	mg/kg	8021/8015	01/31/12	200
Total Xylene	440	7.5	mg/kg	8021/8015	02/05/12	5000
TPH (GC/FID) Low Fraction	7900	500	mg/kg	GRO	02/05/12	5000
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	97.0		% Rec.	8021/8015	02/05/12	5000
a,a,a-Trifluorotoluene (PID)	96.9		% Rec.	8021/8015	01/31/12	200
Diesel and Oil Ranges						
C10-C28 Diesel Range	1000	80.	mg/kg	8015	02/01/12	20
C28-C40 Oil Range	140	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	0.00		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II S.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 11:54

ESC Sample # : L558062-05

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	51.	10.	mg/kg	9056	02/02/12	1
Total Solids	89.		%	2540G	02/07/12	1
Benzene	0.046	0.0025	mg/kg	8021/8015	01/31/12	5
Toluene	0.17	0.025	mg/kg	8021/8015	01/31/12	5
Ethylbenzene	0.083	0.0025	mg/kg	8021/8015	01/31/12	5
Total Xylene	0.95	0.0075	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	470	5.0	mg/kg	GRO	02/03/12	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	99.8		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	90.7		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	190	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	150	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	64.8		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II N.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 11:54

ESC Sample # : L558062-06

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	75.	10.	mg/kg	9056	02/02/12	1
Total Solids	86.		%	2540G	02/07/12	1
Benzene	0.0039	0.0025	mg/kg	8021/8015	01/31/12	5
Toluene	0.030	0.025	mg/kg	8021/8015	01/31/12	5
Ethylbenzene	0.076	0.0025	mg/kg	8021/8015	01/31/12	5
Total Xylene	0.19	0.0075	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	190	5.0	mg/kg	GRO	02/03/12	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	96.7		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	270	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	320	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	80.1		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II E.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 11:54

ESC Sample # : L558062-07

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	50.	10.	mg/kg	9056	02/02/12	1
Total Solids	83.		%	2540G	02/07/12	1
Benzene	4.4	0.050	mg/kg	8021/8015	01/31/12	100
Toluene	2.4	0.50	mg/kg	8021/8015	01/31/12	100
Ethylbenzene	4.2	0.050	mg/kg	8021/8015	01/31/12	100
Total Xylene	3.8	0.15	mg/kg	8021/8015	01/31/12	100
TPH (GC/FID) Low Fraction	1200	50.	mg/kg	GRO	02/03/12	500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	102.		% Rec.	8021/8015	01/31/12	100
a,a,a-Trifluorotoluene (PID)	98.4		% Rec.	8021/8015	01/31/12	100
Diesel and Oil Ranges						
C10-C28 Diesel Range	140	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	190	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	72.1		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

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REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II W.WALL COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 11:54

ESC Sample # : L558062-08

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	80.	10.	mg/kg	9056	02/02/12	1
Total Solids	88.		%	2540G	02/07/12	1
Benzene	1.8	0.025	mg/kg	8021/8015	01/31/12	50
Toluene	0.66	0.25	mg/kg	8021/8015	01/31/12	50
Ethylbenzene	2.3	0.025	mg/kg	8021/8015	01/31/12	50
Total Xylene	27.	0.075	mg/kg	8021/8015	01/31/12	50
TPH (GC/FID) Low Fraction	2500	50.	mg/kg	GRO	02/03/12	500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	94.3		% Rec.	8021/8015	01/31/12	50
a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021/8015	01/31/12	50
Diesel and Oil Ranges						
C10-C28 Diesel Range	360	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	160	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	86.9		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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The reported analytical results relate only to the sample submitted

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Mt. Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II FLOOR COMP  
Collected By : Sam LaRue  
Collection Date : 01/26/12 11:54

ESC Sample # : L558062-09

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	63.	10.	mg/kg	9056	02/02/12	1
Total Solids	85.		%	2540G	02/07/12	1
Benzene	1.2	0.025	mg/kg	8021/8015	02/05/12	50
Toluene	1.1	0.25	mg/kg	8021/8015	02/05/12	50
Ethylbenzene	0.42	0.0025	mg/kg	8021/8015	01/31/12	5
Total Xylene	2.9	0.0075	mg/kg	8021/8015	01/31/12	5
TPH (GC/FID) Low Fraction	970	29.	mg/kg	GRO	02/06/12	250
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	94.5		% Rec.	8021/8015	01/31/12	5
a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021/8015	01/31/12	5
Diesel and Oil Ranges						
C10-C28 Diesel Range	83.	4.0	mg/kg	8015	02/01/12	1
C28-C40 Oil Range	68.	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	71.9		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

ESC Sample # : L558062-10

Date Received : January 31, 2012  
Description : Kutz Gas Plant

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ II DS

Project # : 034012001

Collected By : Sam LaRue  
Collection Date : 01/26/12 10:27

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	94.	10.	mg/kg	9056	02/02/12	1
Total Solids	91.		%	2540G	02/07/12	1
Benzene	12.	0.12	mg/kg	8021/8015	01/31/12	250
Toluene	140	25.	mg/kg	8021/8015	02/03/12	5000
Ethylbenzene	20.	0.12	mg/kg	8021/8015	01/31/12	250
Total Xylene	290	7.5	mg/kg	8021/8015	02/03/12	5000
TPH (GC/FID) Low Fraction	5500	500	mg/kg	GRO	02/03/12	5000
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (PID)	96.2		% Rec.	8021/8015	01/31/12	250
a,a,a-Trifluorotoluene (PID)	101.		% Rec.	8021/8015	01/31/12	250
Diesel and Oil Ranges						
C10-C28 Diesel Range	800	20.	mg/kg	8015	02/01/12	5
C28-C40 Oil Range	89.	4.0	mg/kg	8015	02/01/12	1
Surrogate Recovery						
o-Terphenyl	78.9		% Rec.	8015	02/01/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Est. 1970

# REPORT OF ANALYSIS

February 08, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : January 31, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I FLOOR  
Collected By : Sam LaRue  
Collection Date : 01/26/12 12:30

ESC Sample # : L558062-11

Site ID : KUTZ GAS PLANT

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	110	12.	mg/kg	9056	02/04/12	1
Total Solids	83.		%	2540G	02/07/12	1
Benzene	18.	0.30	mg/kg	8021/8015	02/03/12	500
Toluene	78.	3.0	mg/kg	8021/8015	02/03/12	500
Ethylbenzene	26.	0.30	mg/kg	8021/8015	02/03/12	500
Total Xylene	140	0.90	mg/kg	8021/8015	02/03/12	500
TPH (GC/FID) Low Fraction	4500	60.	mg/kg	GRO	02/03/12	500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	89.7		% Rec.	8021/8015	02/03/12	500
a,a,a-Trifluorotoluene (PID)	99.1		% Rec.	8021/8015	02/03/12	500
Diesel and Oil Ranges						
C10-C28 Diesel Range	180	4.8	mg/kg	8015	02/06/12	1
C28-C40 Oil Range	140	4.8	mg/kg	8015	02/06/12	1
Surrogate Recovery						
o-Terphenyl	67.5		% Rec.	8015	02/06/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L558062-01	WG576367	SAMP	TPH (GC/FID) Low Fraction	R2019553	J6
L558062-09	WG577295	SAMP	TPH (GC/FID) Low Fraction	R2027192	J5

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Company Name/Address  <b>LT Environmental, Inc.</b>  <b>2243 Main Avenue, Ste. 3</b> <b>Durango, CO 81301</b>				Alternate Billing   Report to: <u>Ashley Ager</u> E-mail to: <u>ager@ltenv.com</u>				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">             8015 TPH 8021 BTEX 3001 Chloride           </div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>								Chain of Custody Page <u>1</u> of <u>2</u>  <b>B114</b>  Prepared by:  <b>ENVIRONMENTAL Science corp</b> 12065 Lebanon Road Mt. Juliet TN 37122  Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859			
Project Description: <u>kutz Gas Plant</u>				Client Project No. <u>034012001</u>				City/State Collected: <u>San Juan Co, NM</u>											
PHONE: 970-946-1093 FAX: 970-385-1873				Site/Facility ID# <u>kutz Gas Plant</u>				Lab Project # P.O.#											
Collected by: <u>Sam LaRue</u>				Rush? <input type="checkbox"/> (Lab MUST be Notified) Next Day.....100% Two Day.....50% Three Day.....25%				Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes											
Collected by (signature): <u>[Signature]</u>				Packed on Ice <input checked="" type="checkbox"/>				No of Cntrs <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">             8015 TPH 8021 BTEX 3001 Chloride           </div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>											
Sample ID		Comp/Grab	Matrix	Depth	Date	Time	Cntrs												
kutz I S. Wall Comp.		Comp	SS		1/26/12	12:30	2												
kutz I N. Wall Comp.		Comp	SS		1/26/12	12:30	2												
kutz I E. Wall Comp.		Comp	SS		1/26/12	12:30	2												
kutz I W. Wall Comp.		Comp	SS		1/26/12	12:30	2												
kutz I Floor		Comp	SS		1/26/12	12:30	2												

Matrix: SS=Soil/Solid GW=Groundwater WW=Wastewater DW=Drinking Water OT= Other\_\_\_\_\_

pH\_\_\_\_\_ Temp\_\_\_\_\_

Remarks:

496345925135 Flow\_\_\_\_\_ Other\_\_\_\_\_

Relinquisher by: (Signature) <u>[Signature]</u>	Date: <u>1/27/12</u>	Time: <u>14:00</u>	Received by: (Signature) <u>[Signature]</u>	Samples returned via: FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition _____ (lab use only)
Relinquisher by: (Signature) <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature) <u>[Signature]</u>	Temp: <u>2.7°C</u>	Bottles Received: <u>22</u>
Relinquisher by: (Signature) _____	Date: _____	Time: _____	Received for lab by: (Signature) <u>[Signature]</u>	Date: <u>1-28-12</u>	Time: <u>0900</u>
				pH Checked: _____	NCF: <u>JE</u> <input checked="" type="checkbox"/>

Company Name/Address  <b>LT Environmental, Inc.</b>  <b>2243 Main Avenue, Ste. 3</b> <b>Durango, CO 81301</b>				Alternate Billing   Report to: <u>Ashley Ager</u> E-mail to: <u>aager@ltenv.com</u>				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8015 TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8021 BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">300.1 Chloride</div> </div>				Chain of Custody Page <u>2</u> of <u>2</u>  Prepared by:  <div style="text-align: center;">   <b>ENVIRONMENTAL</b>  <b>Science corp</b>           12065 Lebanon Road          Mt. Juliet TN 37122           Phone (615)758-5858          Phone (800) 767-5859          FAX (615)758-5859       </div>				
Project Description: <u>Kutz Gas Plant</u>				City/State Collected: <u>San Juan County, NM</u>				CoCode _____ (lab use only)  <b>LTENVCO</b> Template/Prelogin _____  Shipped Via: Fed Ex _____								
PHONE: 970-946-1093  FAX: 970-385-1873		Client Project No. <u>034012001</u>		Lab Project #  												
Collected by: <u>Sam LaRue</u>		Site/Facility ID# <u>Kutz Gas Plant</u>		P.O.#  												
Collected by (signature): 		Rush? (Lab MUST be Notified) <input type="checkbox"/> Next Day ..... 100% <input type="checkbox"/> Two Day ..... 50% <input type="checkbox"/> Three Day ..... 25%		Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes												
Packed on Ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/>		No _____ of _____ Cntrs		 												
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs									Remarks/contaminant	Sample # (lab only)
Kutz II S. Wall Comp.	Comp	SS		1/26/12	11:54	2	✓	✓	✓						L558062-05	
Kutz II N. Wall Comp.	Comp	SS		1/26/12	11:54	2	✓	✓	✓						-06	
Kutz II E. Wall Comp.	Comp	SS		1/26/12	11:54	2	✓	✓	✓						-07	
Kutz II W. Wall Comp.	Comp	SS		1/26/12	11:54	2	✓	✓	✓						-08	
Kutz II Floor Comp	Comp	SS		1/26/12	11:54	2	✓	✓	✓						-09	
Kutz II DS	Comp	SS		1/26/12	10:27	2	✓	✓	✓						-10	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by (Signature) 	Date: <u>1/27/12</u>	Time: <u>14:00</u>	Received by (Signature) 	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS _____ Other _____	Condition _____ (lab use only)  <u>JE</u>
Relinquisher by (Signature) 	Date:	Time:	Received by (Signature) 	Temp: <u>2.7°C</u>	Bottles Received: <u>22</u>
Relinquisher by (Signature) 	Date:	Time:	Received for lab by (Signature) 	Date: <u>1-28-12</u>	Time: <u>0900</u>
				pH Checked:	NCF: <input checked="" type="checkbox"/>



## NON-CONFORMANCE FORM

Login No.: L558062 -DC

Date: 1/27/12

Evaluated by: MAFS

Client: LTENVCO

Daphne

### Non-Conformance (check applicable items)

- |   |   |
|---|---|
| <input type="checkbox"/> Parameter(s) past holding time | <input checked="" type="checkbox"/> Login Clarification Needed  |
| <input type="checkbox"/> Improper temperature           | <input type="checkbox"/> Chain of custody is incomplete   |
| <input type="checkbox"/> Improper container type        | <input type="checkbox"/> Chain of Custody is missing (see below)  |
| <input type="checkbox"/> Improper preservation          | <input type="checkbox"/> Broken container(s) (See below)  |
| <input type="checkbox"/> Container lid not intact       | <input type="checkbox"/> Broken container: sufficient sample<br>volume remains for analysis requested (See below) |

If no COC: Received by \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Temp: \_\_\_\_\_ Cont. Rec \_\_\_\_\_ pH: \_\_\_\_\_  
☐ Fedex ☐ UPS ☐ SWA ☐ Other \_\_\_\_\_  
Tracking # \_\_\_\_\_

- ☐ Insufficient packing material around container
- ☐ Insufficient packing material inside cooler
- ☐ Improper handling by carrier (FedEx / UPS / Courier)
- ☐ Sample was frozen

Comments: Please clarify TPH 8015

Client informed by call / email / fax / voice mail    date: 1/31    time: 9:20    TSR Initials: DK

Client contact:

Login Instructions: ARO, DRURLA

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

<p align="center"><b>Report Summary</b></p> <p align="center">Monday March 05, 2012</p> <p align="center">Report Number: L562979</p> <p align="center">Samples Received: 03/02/12</p> <p align="center">Client Project: 034012001</p> <p align="center">Description: Kutz Gas Plant</p>
---

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:



Daphne Richards , ESC Representative

***Laboratory Certification Numbers***

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Est. 1970

# REPORT OF ANALYSIS

March 05, 2012

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

Date Received : March 02, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I W.WALL  
Collected By : Sam LaRue  
Collection Date : 03/01/12 13:15

ESC Sample # : L562979-01

Site ID :

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.2	0.100	%	2540G	03/03/12	1
Benzene	3.6	1.4	mg/kg	8021/8015	03/02/12	2500
Toluene	41.	14.	mg/kg	8021/8015	03/02/12	2500
Ethylbenzene	8.4	1.4	mg/kg	8021/8015	03/02/12	2500
Total Xylene	94.	4.2	mg/kg	8021/8015	03/02/12	2500
TPH (GC/FID) Low Fraction	2000	280	mg/kg	GRO	03/02/12	2500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	95.4		% Rec.	8021/8015	03/02/12	2500
a,a,a-Trifluorotoluene (PID)	100.		% Rec.	8021/8015	03/02/12	2500
Diesel and Oil Ranges						
C10-C28 Diesel Range	240	4.4	mg/kg	8015	03/03/12	1
C28-C40 Oil Range	43.	4.4	mg/kg	8015	03/03/12	1
Surrogate Recovery						
o-Terphenyl	73.4		% Rec.	8015	03/03/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 03/05/12 14:12 Printed: 03/05/12 14:19

REPORT OF ANALYSIS

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

March 05, 2012

Date Received : March 02, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ I FLOOR  
Collected By : Sam LaRue  
Collection Date : 03/01/12 13:31

ESC Sample # : L562979-02

Site ID :

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.3	0.100	%	2540G	03/03/12	1
Benzene	0.12	0.028	mg/kg	8021/8015	03/04/12	50
Toluene	BDL	0.28	mg/kg	8021/8015	03/04/12	50
Ethylbenzene	0.98	0.028	mg/kg	8021/8015	03/04/12	50
Total Xylene	5.4	0.083	mg/kg	8021/8015	03/04/12	50
TPH (GC/FID) Low Fraction	240	5.5	mg/kg	GRO	03/04/12	50
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	101.		% Rec.	8021/8015	03/04/12	50
a,a,a-Trifluorotoluene (PID)	100.		% Rec.	8021/8015	03/04/12	50
Diesel and Oil Ranges						
C10-C28 Diesel Range	240	4.4	mg/kg	8015	03/03/12	1
C28-C40 Oil Range	80.	4.4	mg/kg	8015	03/03/12	1
Surrogate Recovery						
o-Terphenyl	78.9		% Rec.	8015	03/03/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 03/05/12 14:12 Printed: 03/05/12 14:19

REPORT OF ANALYSIS

Ashley Ager  
LT Environmental  
2243 Main Ave, Ste 3  
Durango, CO 81301

March 05, 2012

Date Received : March 02, 2012  
Description : Kutz Gas Plant  
Sample ID : KUTZ II DS  
Collected By : Sam LaRue  
Collection Date : 03/01/12 14:08

ESC Sample # : L562979-03

Site ID :

Project # : 034012001

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6	0.100	%	2540G	03/03/12	1
Benzene	21.	1.4	mg/kg	8021/8015	03/02/12	2500
Toluene	99.	14.	mg/kg	8021/8015	03/02/12	2500
Ethylbenzene	21.	1.4	mg/kg	8021/8015	03/02/12	2500
Total Xylene	170	4.3	mg/kg	8021/8015	03/02/12	2500
TPH (GC/FID) Low Fraction	5200	280	mg/kg	GRO	03/02/12	2500
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	91.7		% Rec.	8021/8015	03/02/12	2500
a,a,a-Trifluorotoluene (PID)	100.		% Rec.	8021/8015	03/02/12	2500
Diesel and Oil Ranges						
C10-C28 Diesel Range	930	46.	mg/kg	8015	03/05/12	10
C28-C40 Oil Range	58.	4.6	mg/kg	8015	03/03/12	1
Surrogate Recovery						
o-Terphenyl	83.5		% Rec.	8015	03/03/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 03/05/12 14:12 Printed: 03/05/12 14:19

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L562979-03	WG581109	SAMP	C10-C28 Diesel Range	R2058892	J5
	WG581109	SAMP	C28-C40 Oil Range	R2058892	J5

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Relinquished by: (Signature) <i>[Signature]</i>	Date: 3/1/12	Time: 15:40	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: <i>OK</i> (lab use only) <i>[Initials]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Temp: <i>3.2</i>	Bottles Received: <i>12-402</i>
Relinquished by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 3-2-12	Time: 9:00
				pH Checked:	NCF:



*Hall Environmental Analysis Laboratory*  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 21, 2012

Ashley Ager

LTE

2243 Main Ave Suite 3

Durango, CO 81301

TEL: (970) 946-1093

FAX

RE: Kutz Gas Plant

OrderNo.: 1205538

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/10/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 18, 2012

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205538

Date Reported: 5/21/2012

CLIENT: LTE

Client Sample ID: S1-2.25'

Project: Kutz Gas Plant

Collection Date: 5/10/2012 10:07:00 AM

Lab ID: 1205538-001

Matrix: SOIL

Received Date: 5/10/2012 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	190	10		mg/Kg	1	5/15/2012 12:37:36 PM
Motor Oil Range Organics (MRO)	360	51		mg/Kg	1	5/15/2012 12:37:36 PM
Surr: DNOP	126	82.1-121	S	%REC	1	5/15/2012 12:37:36 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	3,500	50		mg/Kg	10	5/16/2012 2:51:47 AM
Surr: BFB	690	69.7-121	S	%REC	10	5/16/2012 2:51:47 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	6.1	0.50		mg/Kg	10	5/16/2012 2:51:47 AM
Toluene	91	5.0		mg/Kg	100	5/17/2012 2:37:57 AM
Ethylbenzene	16	0.50		mg/Kg	10	5/16/2012 2:51:47 AM
Xylenes, Total	150	9.9		mg/Kg	100	5/17/2012 2:37:57 AM
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	100	5/17/2012 2:37:57 AM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205538

Date Reported: 5/21/2012

CLIENT: LTE

Client Sample ID: S2-5.75'

Project: Kutz Gas Plant

Collection Date: 5/10/2012 10:31:00 AM

Lab ID: 1205538-002

Matrix: SOIL

Received Date: 5/10/2012 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	53	9.8		mg/Kg	1	5/15/2012 12:59:20 PM
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	5/15/2012 12:59:20 PM
Surr: DNOP	114	82.1-121		%REC	1	5/15/2012 12:59:20 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	560	48		mg/Kg	10	5/16/2012 3:20:31 AM
Surr: BFB	246	69.7-121	S	%REC	10	5/16/2012 3:20:31 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.48		mg/Kg	10	5/16/2012 3:20:31 AM
Toluene	6.7	0.48		mg/Kg	10	5/16/2012 3:20:31 AM
Ethylbenzene	2.3	0.48		mg/Kg	10	5/16/2012 3:20:31 AM
Xylenes, Total	21	0.96		mg/Kg	10	5/16/2012 3:20:31 AM
Surr: 4-Bromofluorobenzene	104	80-120		%REC	10	5/16/2012 3:20:31 AM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205538

Date Reported: 5/21/2012

CLIENT: LTE

Client Sample ID: S3-8'

Project: Kutz Gas Plant

Collection Date: 5/10/2012 11:01:00 AM

Lab ID: 1205538-003

Matrix: SOIL

Received Date: 5/10/2012 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	14	9.6		mg/Kg	1	5/15/2012 1:20:58 PM
Motor Oil Range Organics (MRO)	65	48		mg/Kg	1	5/15/2012 1:20:58 PM
Surr: DNOP	108	82.1-121		%REC	1	5/15/2012 1:20:58 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	130	47		mg/Kg	10	5/16/2012 3:49:13 AM
Surr: BFB	146	69.7-121	S	%REC	10	5/16/2012 3:49:13 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.47		mg/Kg	10	5/16/2012 3:49:13 AM
Toluene	0.74	0.47		mg/Kg	10	5/16/2012 3:49:13 AM
Ethylbenzene	ND	0.47		mg/Kg	10	5/16/2012 3:49:13 AM
Xylenes, Total	3.5	0.95		mg/Kg	10	5/16/2012 3:49:13 AM
Surr: 4-Bromofluorobenzene	98.0	80-120		%REC	10	5/16/2012 3:49:13 AM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205538

Date Reported: 5/21/2012

CLIENT: LTE

Client Sample ID: S4-9'7"

Project: Kutz Gas Plant

Collection Date: 5/10/2012 11:15:00 AM

Lab ID: 1205538-004

Matrix: SOIL

Received Date: 5/10/2012 3:05:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/15/2012 1:42:40 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/15/2012 1:42:40 PM
Surr: DNOP	106	82.1-121		%REC	1	5/15/2012 1:42:40 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	15	9.4		mg/Kg	2	5/17/2012 3:35:25 AM
Surr: BFB	131	69.7-121	S	%REC	2	5/17/2012 3:35:25 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.094		mg/Kg	2	5/17/2012 3:35:25 AM
Toluene	0.11	0.094		mg/Kg	2	5/17/2012 3:35:25 AM
Ethylbenzene	ND	0.094		mg/Kg	2	5/17/2012 3:35:25 AM
Xylenes, Total	0.23	0.19		mg/Kg	2	5/17/2012 3:35:25 AM
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	2	5/17/2012 3:35:25 AM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level.  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

B   Analyte detected in the associated Method Blank  
H   Holding times for preparation or analysis exceeded  
ND   Not Detected at the Reporting Limit  
RL   Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205538

21-May-12

Client: LTE  
Project: Kutz Gas Plant

Sample ID	MB-1919	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	1919	RunNo:	2729					
Prep Date:	5/14/2012	Analysis Date:	5/14/2012	SeqNo:	75765	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	77.4	131			

Sample ID	LCS-1919	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	1919	RunNo:	2729					
Prep Date:	5/14/2012	Analysis Date:	5/14/2012	SeqNo:	75979	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.5	62.7	139			
Surr: DNOP	4.4		5.000		87.7	77.4	131			

## Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205538

21-May-12

Client: LTE  
Project: Kutz Gas Plant

Sample ID	MB-1910	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1910	RunNo:	2808					
Prep Date:	5/11/2012	Analysis Date:	5/15/2012	SeqNo:	77968	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1,000		1,000		104	69.7	121			

Sample ID	LCS-1910	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1910	RunNo:	2808					
Prep Date:	5/11/2012	Analysis Date:	5/15/2012	SeqNo:	77970	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	98.5	133			
Surr: BFB	1,100		1,000		112	69.7	121			

Sample ID	MB-1952	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78966	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,000		1,000		105	69.7	121			

Sample ID	LCS-1952	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1952	RunNo:	2816					
Prep Date:	5/15/2012	Analysis Date:	5/16/2012	SeqNo:	78967	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1,100		1,000		112	69.7	121			

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205538

21-May-12

Client: LTE  
Project: Kutz Gas Plant

Sample ID	MB-1910	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	1910		RunNo:	2808				
Prep Date:	5/11/2012	Analysis Date:	5/15/2012		SeqNo:	77994		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	80	120			

Sample ID	LCS-1910		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 1910		RunNo: 2808					
Prep Date:	5/11/2012		Analysis Date: 5/15/2012		SeqNo: 77995		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.7	83.3	107			
Toluene	0.97	0.050	1.000	0	96.8	74.3	115			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80.9	122			
Xylenes, Total	2.8	0.10	3.000	0	94.6	85.2	123			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Sample ID	MB-1952		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	1952		RunNo:	2816				
Prep Date:	5/15/2012		Analysis Date:	5/16/2012		SeqNo:	78994		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.94		1.000		94.0	80	120				

Sample ID	LCS-1952		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 1952		RunNo: 2816					
Prep Date:	5/15/2012		Analysis Date: 5/16/2012		SeqNo: 78995		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

## Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# Sample Log-In Check List

Client Name: <b>LTE</b>		Work Order Number: <b>1205538</b>	
Received by/date: <b>AF</b> <u>05/10/12</u>			
Logged By: <b>Lindsay Mangin</b>	<b>5/10/2012 3:05:00 PM</b>	<i>[Signature]</i>	
Completed By: <b>Lindsay Mangin</b>	<b>5/11/2012 1:29:49 PM</b>	<i>[Signature]</i>	
Reviewed By: <b>FO</b> <u>05/11/12</u>			

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

18. Additional remarks:

## 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.8	Good	Yes			

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.

**ATTACHMENT C**  
**LITHOLOGIC LOG**



**Compliance • Engineering • Remediation**  
**LT Environmental, Inc.**  
**2243 Main Avenue, Suite 3**  
**Durango, Colorado 81301**

Boring/Well Number:

B-1

Date:

5/10/2012

Project:

Williams Kutz Plant

Project Number:

Logged By:

Brooke Herb

Drilled By:

Brooke Herb

**BORING LOG/MONITORING WELL COMPLETION DIAGRAM**

Lat/Long: GPS	Elevation: GPS	Detector: PID	Drilling Method: Hand Auger	Sampling Method: Composite	Hole Diameter: 3"	Total Depth: 9.75'
Casing Type: NA	Casing Diameter: NA	Casing Length: NA	Slot Size: NA	Slot Length: NA	Depth to Water: NA	
Gravel Pack: NA	Seal: NA	Grout: NA	Comments: Boreholes advanced from floor of excavation which was 8' BGS			

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Soil/Rock Type	Lithology/Remarks
Easy	DRY	2775 ppm NO			0		SM	Just Below GS → SM - Silty sand, 40% silt, 40% fine sand 10% med sand 7.5 YR 5/6 Strong Brown
Easy	DRY	3528	Yes	S1	2		ML	2.25' → ML Clayey silt 60% silt 40% clay minor fine & med. sand grains 7.5 YR 4/1 dark gray
Mod.	DRY	2,980	Yes		4		ML	4' - 4.25' → same as above
Mod.	DRY	1,396	Yes	S2	6		ML	@ 5.75' → same as above
HARD	DRY	956	Yes	S3	8		ML	@ 8' → same as above
Hard	DRY	768	Yes		9			@ 8' 8" → same as above Gley 15/10Y Greenish Gray
VERY HARD	DRY	503	Yes	S4	10		ML	@ 9.75' → consolidated to partially consolidated Auger refusal - only able to pull up 1/4 bucket Gley 15/10Y Greenish Gray