AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pJK1424834050

3RP - 1013

Williams Four Corners, LLC

3/7/2018

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	Section:	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
NW/4	13	28 N	11 W	625	North	451	West	San Juan County
NW/4	13	28N	11 W	947	North	736	West	San Juan County
NW/4	13	28N	11W	1,024	North	555	West	San Juan County

Latitude 36.66784 **Longitude** -107.96258
Latitude 36.66691 **Longitude** -107.96162
Latitude 36.66672 **Longitude** -107.96226

NATURE OF RELEASE

Type of Release: Pit liner leak at three below grade concrete drain vaults	Volume of Release: unknown	Volume Recovered: none
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? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? Not applicable	RCVD FEB 3 '12
By Whom? Not applicable	Date and Hour Not applicable	OIL CONS. DIV.
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. Not applicable	DIST. 3

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

Describe Cause of Problem and Remedial Action Taken.* While removing three below grade concrete drain vaults and associated liners for upgrades, Williams personnel identified historically impacted soils. Williams excavated as much soil as was practical and collected soil confirmation samples. Excavated soil will be transported to an appropriate disposal facility following waste characterization.

Describe Area Affected and Cleanup Action Taken.* Williams removed concrete drain vault from service and excavated surrounding soil. Visual staining of subsurface soil surrounding concrete drain vault liners was observed. Confirmation soil sampling results are pending and results will be submitted to NMOCD in a follow-up report describing the excavation, soil sampling procedures and results, and appropriate further action if necessary.

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:	OIL CONSERVATION DIVISION
Printed Name: Matt Webre	Approved by Environmental Specialist:
Title: Environmental Specialist	Approval Date: 2/27/2012 Expiration Date:
E-mail Address: Matt.Webre@williams.com	Conditions of Approval: Attached ☐
Date: 01/27/12 Phone: 505-632-4442	

* Attach Additional Sheets If Necessary

nJK1205830234

IMAGE COURTESY OF GOOGLE EARTH, 06/10/2011

LEGEND

- SITE FEATURE

0 100 200

Feet

N

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

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD\034012001_KUTZ\034012001_KUTZ_FIG01_SITEMAP.mxd

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

February 2, 2011

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

RE: Initial Release Notification
Submittal of 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 an initial notification of a release on the attached New Mexico Oil Conservation Division (NMOCD) Form C-141 *Release Notification and Corrective Action* for the Kutz Canyon Gas Plant. A soil sampling report with laboratory analytical results will be submitted to you once results are received. The soil sampling report will include proposed corrective action, if necessary.

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.

Ashley L. Ager
Senior Geologist

cc:
Leonard Lowe, NMOCD
Matt Webre, Williams

Attachments (1)

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	Section:	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
NW/4	13	28 N	11 W	625	North	451	West	San Juan County
NW/4	13	28N	11 W	947	North	736	West	San Juan County

Latitude 36.66784 **Longitude** -107.96258
Latitude 36.66691 **Longitude** -107.96162

NATURE OF RELEASE

Type of Release: Pit liner leak at three below grade concrete drain vaults	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? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? Not applicable	
By Whom? Not applicable	Date and Hour Not applicable	
Was a Watercourse Reached? ☐ Yes ☒ 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 two below grade concrete drain vaults and associated liners for upgrades, Williams personnel identified historically impacted soils. Williams excavated as much soil as was practical and collected soil confirmation samples. Excavated soil will be transported to an appropriate disposal facility following waste characterization.

Describe Area Affected and Cleanup Action Taken.* Williams removed concrete drain vault from service and excavated surrounding soil. Visual staining of subsurface soil surrounding concrete drain vault liners was observed. 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:	OIL CONSERVATION DIVISION	
Printed Name: Matt Webre	Approved by Environmental Specialist: Jonathon D. Kelly	
Title: Environmental Specialist	Approval Date: 5/1/2012	Expiration Date:
E-mail Address: Matt.Webre@williams.com	Conditions of Approval:	Attached ☐
Date: 3/21/2012 Phone: 505-632-4442		

* Attach Additional Sheets If Necessary

nJK1212228108

ATTACHMENT A

Revised C-141

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096 F 970.385.1873

March 21, 2012

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

RE: Submittal of C-141 for Wastewater Vault Removal
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 a revised [illegible] Oil Conservation Division (NMOCD) Form C-141 *Release Not* [illegible] *on* for Kutz Canyon Gas Plant Wastewater Vaults Kutz I and Kutz [illegible] Gas Plant Wastewater Vault Kutz II DS from the revised C-141. T[illegible]inal paperwork for Kutz I and Kutz II. A separate C-141 will be sub[illegible]ving completion of additional work at Kutz II DS.

High Benzene on Kutz I, go over w/ Brandon

If you have any questions, please do [illegible] 970-385-1096 or Matt Webre at Williams at 505-632-4442.

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. Ager

Ashley L. Ager
Senior Geologist

cc:
Leonard Lowe, NMOCD
Matt Webre, Williams

Attachments (1)

COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
T 970.385.1096 / F 970.385.1873

March 21, 2012

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

RE: Soil Sampling Report - Wastewater Vault Removal
Williams Four Corners, LLC
Kutz Canyon Gas Plant

Dear Mr. Webre:

Williams Four Corners, LLC (Williams) retained LT Environmental, Inc. (LTE) to sample soil at the Kutz Canyon Gas Plant (Site). This letter presents the results of the investigation in which soil samples were collected and analyzed to confirm impacted soil removal or characterize remaining impact associated with removal of three below grade wastewater drain vaults. Additionally, LTE collected a sample of stockpiled soil for waste characterization. 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 notification. LTE updated the original C-141 to include soil sample results and attached the revised paperwork as Attachment A.

Site Description

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 (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.

Williams observed hydrocarbon-stained soil during removal of three below grade wastewater drain vaults while upgrading wastewater piping at the Site. The three locations are referenced as Kutz I Below Grade Drain Vault (Kutz I), Kutz II Below Grade Drain Vault (Kutz II), and Kutz II Drain Sump (Kutz II DS) as depicted in Figure 2. Williams excavated soil surrounding the three below grade wastewater drain vaults and temporarily stockpiled the impacted soil within lined roll off boxes. The approximate final extents of the excavations at each location were as follows:

- Kutz I: 30 feet long by 8 feet wide by 7 feet deep;
- Kutz II: 27 feet long by 20 feet wide by 5 feet deep; and

- Kutz II DS: 20 feet long by 15 feet wide by 7 feet deep.

Soil Sampling

On January 26, 2012, LTE collected confirmation samples from Kutz I, Kutz II, and Kutz II DS excavation areas. Five-point composite soil samples were collected from each sidewall and the floors of Kutz I and Kutz II excavation areas. Approximately 1.5 feet of backfill was placed into the Kutz II DS excavation prior to the January 26, 2012 sampling event. Therefore, a hand auger was used to collect a composite soil sample from 1.5 to 2 feet below the clean backfill material. Additionally, LTE collected a composite sample of the excavated soil for waste characterization.

Based on the January 26, 2012 analytical results, additional impacted soil was excavated from the west sidewall and floor at Kutz I; and the clean backfill material was removed from Kutz II DS. LTE returned to the Site on March 1, 2012 to collect additional composite soil samples from the west sidewall and floor of Kutz I and from the floor of Kutz II DS after the preliminary results prompted Williams to remove more impacted soil at these locations.

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 benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8021B; total petroleum hydrocarbons (TPH) by USEPA Method 8015B; and chloride by USEPA Method 300.1. Stockpiled soil was sampled and analyzed for waste characterization including BTEX; TPH; toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs) by 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 is included in Attachment B.

Following receipt of the analytical results, approximately 84 cubic yards of excavated soil was disposed at the Waste Management San Juan County Landfill located in Aztec, New Mexico.

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 the confirmation sample results as compared to the NMOCD action levels are presented in Tables 1, 2, and 3. The ESC analytical laboratory report is included in Attachment B.

Confirmation soil samples collected from the north sidewall, east sidewall, south sidewall, and the final extent of the floor from Kutz I did not exceed NMOCD standards. The final sample collected from the west sidewall of Kutz I did not exceed the NMOCD standards for benzene or TPH, but the total BTEX concentration of 147 mg/kg exceeded the NMOCD action level. Although the total BTEX concentration for Kutz I west sidewall exceeded the NMOCD standard, the final concentration demonstrated a reduction from 630.4 mg/kg of total BTEX detected in the original west sidewall sample to 147 mg/kg. An exposed subsurface pipeline and a concrete pad with spill containment dike on the ground surface is currently restricting further soil removal toward the west (Photograph 1). Soil samples collected from Kutz II did not exceed any of the NMOCD action levels. Composite soil samples collected on January 26, 2012 and March 1, 2012 from Kutz II DS exceeded NMOCD action levels for benzene, total BTEX, and TPH. Chloride concentrations for all soil samples collected from Kutz I, Kutz II, and Kutz II DS were below 250 mg/kg.

Conclusions

Williams removed as much impacted soil as practical surrounding the former Kutz I wastewater drain vault. The total BTEX concentration on the west sidewall exceeded the NMOCD action level; however, the presence of a subsurface pipeline and a concrete pad with spill containment dike prevents additional soil removal toward the west without compromising the structural integrity of the existing infrastructure. Soil analytical results from Kutz II indicate the soil concentrations are below NMOCD standards for benzene, total BTEX, and TPH. Impacted soil exceeding NMOCD action levels is still present beneath the former Kutz II DS.

Recommendations

Although total BTEX concentrations exceed NMOCD standards on the west sidewall of Kutz I, backfilling of this excavation is recommended to protect the structural integrity of the pipeline and above ground tank spill containment infrastructure. Williams has made a best effort to remove as much impacted soil as possible at Kutz I based on current site conditions, demonstrating compliance with NMOCD standards for benzene and TPH concentrations, and reducing remaining total BTEX concentrations from 630.4 mg/kg to 147 mg/kg following completion of additional excavation activities. Depth to groundwater is estimated to be greater than 100 feet bgs, and migration of remaining contaminants is unlikely based on the subsurface geology, which contains interbedded layers of shale. LTE recommends backfilling Kutz II since analytical data demonstrates

that soil concentrations are below NMOCD standards. LTE recommends additional investigation be performed at Kutz II DS to determine vertical and lateral extent of soil impact. Once the magnitude and extent of the impact is known, appropriate methods for remediation can be applied based on site conditions.

LTE omitted Kutz II DS from the revised C-141 in Attachment A. The revised C-141 serves as final paperwork for Kutz I and Kutz II. A separate C-141 will be submitted to the NMOCD following completion of additional work at 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.

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. Ager, M.S.
Senior Geologist
Attachments

Figure 1	Site Location Map
Figure 2	Site Map
Table 1	Excavation Soil Analytical Results – Kutz I Below Grade Drain Vault
Table 2	Excavation Soil Analytical Results – Kutz II Below Grade Drain Vault
Table 3	Excavation Soil Analytical Results – Kutz II Drain Sump
Photograph 1	Pipeline on West Sidewall of Kutz I Below Grade Drain Vault Excavation
Attachment A	Revised C-141
Attachment B	Laboratory Analytical Reports

FIGURES

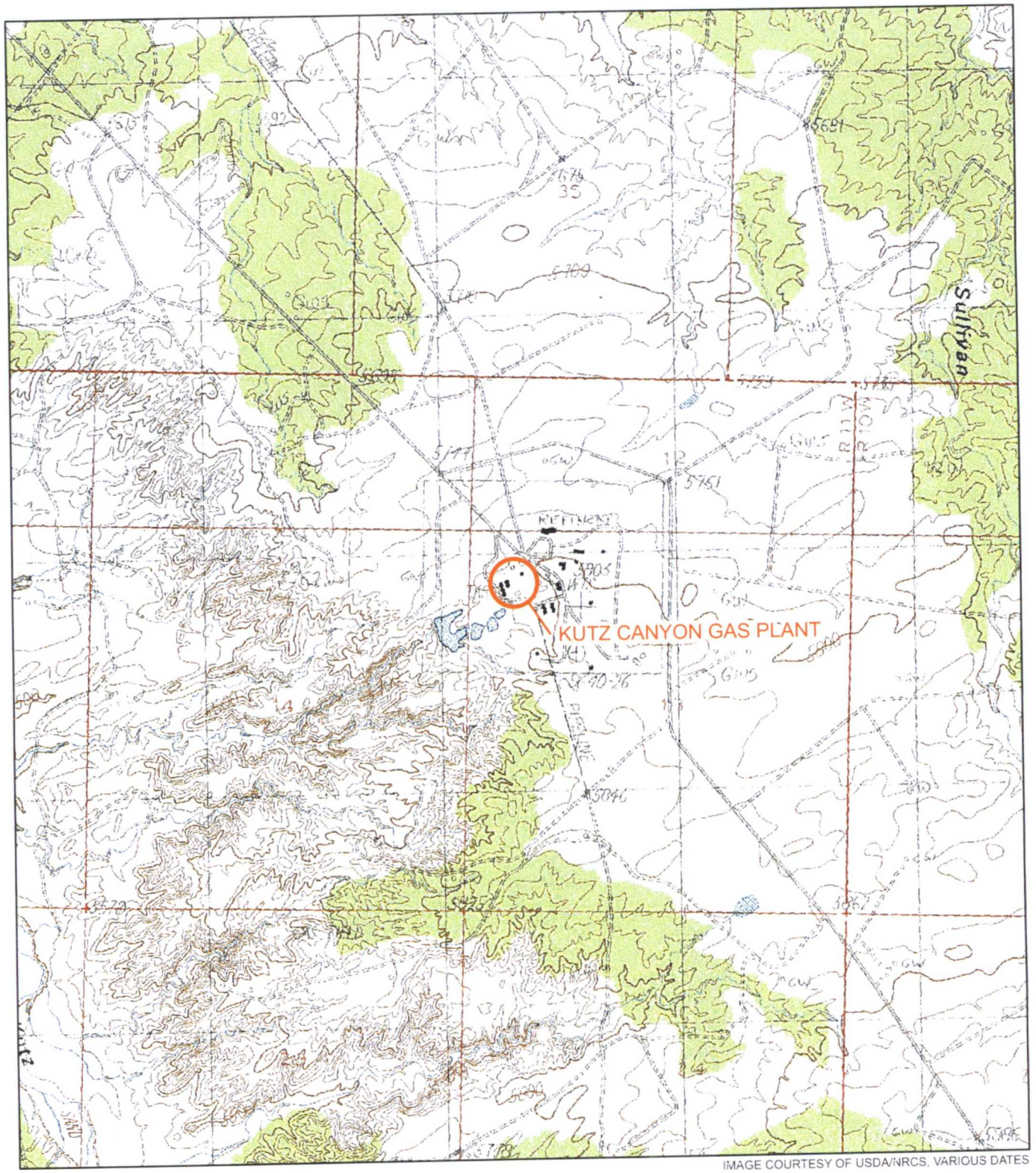

IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

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

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD\034012001_KUTZ\034012001_KUTZ_FIG01_SL.mxd

IMAGE COURTESY OF GOOGLE EARTH, 06/10/2011

LEGEND

- SITE FEATURE

0 100 200

Feet

N

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

WILLIAMS FOUR CORNERS, LLC

P:\Williams Four Corners\GIS\MXD\034012001_KUTZ\034012001_KUTZ_FIG02_SITEMAP.mxd

TABLES

TABLE 1

EXCAVATION SOIL ANALYTICAL RESULTS
KUTZ I BELOW GRADE DRAIN VAULT
KUTZ CANYON GAS PLANT
WILLIAMS FOUR CORNERS, LLC

Sample ID	Date Sampled	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 I S. Wall Comp	1/26/2012	2,897	88	< 0.0028	< 0.028	0.025	1.20	1.225 - 1.2558	24	230	120	374
Kutz I N. Wall Comp	1/26/2012	4,289	62	< 0.0029	< 0.029	< 0.0029	0.13	0.13 - 0.1648	18	150	88	256
Kutz I E. Wall Comp	1/26/2012	2,104	82	< 0.0029	< 0.029	< 0.0029	0.14	0.14 -0.1748	8.5	240	170	418.5
Kutz I W. Wall Comp	1/26/2012	3,369	160	6.4	150	34	440	**630.4**	7,900	1,000	140	**9,040**
Kutz I W. Wall Comp	3/1/2012	4,387	NA	3.6	41	8.4	94	**147.0**	2,000	240	43	2,283
Kutz I Floor	1/26/2012	3,879 (wet)	110	**18**	78	26	140	**262**	4,500	180	140	4,820
Kutz I Floor	3/1/2012	3,255	NA	0.12	< 0.28	0.98	5.40	6.5 - 6.78	240	240	80	560
NMOCD Standard			**250**	**10**	NE	NE	NE	**50**	NE	NE	NE	**5,000**

Notes:

BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics
GRO - gasoline range organics
MRO - motor oil range organics
mg/kg - milligrams per kilogram
NMOCD - New Mexico Oil Conservation Division
ppm - parts per million
TPH - total petroleum hydrocarbons
< - indicates result is less than the stated laboratory method detection limit
NA - not analyzed
NE - not established
Bold - indicates sample exceeds NMOCD standard

TABLE 2

EXCAVATION SOIL ANALYTICAL RESULTS
KUTZ II BELOW GRADE DRAIN VAULT
KUTZ CANYON GAS PLANT
WILLIAMS FOUR CORNERS, LLC

Sample ID	Date Sampled	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 S. Wall Comp	1/26/2012	4,351	51	0.046	0.17	0.083	0.95	1.249	470	190	150	810
Kutz II N. Wall Comp	1/26/2012	1,118	75	0.0039	0.030	0.076	0.19	0.2999	190	270	320	780
Kutz II E. Wall Comp	1/26/2012	5,465	50	4.4	2.4	4.2	3.8	14.8	1,200	140	190	1,530
Kutz II W. Wall Comp	1/26/2012	4,048	80	1.8	0.66	2.3	27	31.76	2,500	360	160	3,020
Kutz II Floor	1/26/2012	6,519 (wet)	63	1.2	1.1	0.42	2.9	5.62	970	83	68	1,121
NMOCD Standard			**250**	**10**	NE	NE	NE	**50**	NE	NE	NE	**5,000**

Notes:
BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics
GRO - gasoline range organics
MRO - motor oil range organics
mg/kg - milligrams per kilogram
NMOCD - New Mexico Oil Conservation Division
ppm - parts per million
TPH - total petroleum hydrocarbons
NE - not established
< - indicates result is less than the stated laboratory method detection limit
Bold - indicates sample exceeds NMOCD standard

TABLE 3

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

Sample ID	Date Sampled	Sample Depth (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	3,086	94	**12**	140	20	290	**462**	5,500	800	89	**6,389**
Kutz II DS	3/1/2012	7	1,720	NA	**21**	99	21	170	**311**	5,200	930	58	**6,188**
NMOCD Standard				**250**	**10**	NE	NE	NE	**50**	NE	NE	NE	**5,000**

Notes:
BTEX - benzene, toluene, ethylbenzene, and total xylenes
DRO - diesel range organics
ft - feeet below ground surface
GRO - gasoline range organics
MRO - motor oil range organics
mg/kg - milligrams per kilogram
NA - not analyzed
NMOCD - New Mexico Oil Conservation Division
ppm - parts per million
TPH - total petroleum hydrocarbons
NE - not established
Bold - indicates sample exceeds NMOCD standard

PHOTOGRAPH 1: PIPELINE ON WEST SIDEWALL OF KUTZ I BELOW GRADE DRAIN VAULT EXCAVATION FACING WEST.

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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 R Richards

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.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-01

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

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)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-02

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-03

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-04

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-05

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

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ II S.WALL COMP

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 01/26/12 11:54

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-06

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

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ II N.WALL COMP

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 01/26/12 11:54

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-07

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

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ II E.WALL COMP

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 01/26/12 11:54

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.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-08

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

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:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-09

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

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ II FLOOR COMP

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 01/26/12 11:54

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)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-10

Site ID : KUTZ GAS PLANT

Project # : 034012001

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

Sample ID : KUTZ II DS

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)
Note:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

February 08,2012

ESC Sample # : L558062-11

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

Site ID : KUTZ GAS PLANT

Sample ID : KUTZ I FLOOR

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 01/26/12 12:30

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:

The reported analytical results relate only to the sample submitted
Reported: 02/08/12 11:44 Printed: 02/08/12 14:38

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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

LT Environmental, Inc.

2243 Main Avenue, Ste. 3
Durango, CO 81301

Alternate Billing

Report to: Ashley Ager

E-mail to: aager@ltenv.com

Project Description: Kutz Gas Plant

City/State Collected: San Juan Co, NM

PHONE: 970-946-1093

FAX: 970-385-1873

Client Project No. 034012001

Lab Project #

Collected by: Sam LaRue

Site/Facility ID# Kutz Gas Plant

P.O.#

Collected by(signature):

Packed on Ice N___ Y√

Rush? (Lab MUST be Notified)

_____Next Day.....100%

_____Two Day.....50%

_____Three Day.....25%

Date Results Needed

Email?__No_X__Yes

FAX?___No___Yes

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	8015 TPH	8021 BTEX	300.1 Chloride					Remarks/contaminant	Sample # (lab only)
Kutz I S. Wall Comp.	Comp	SS		1/26/12	12:30	2	√	√	√					L558062-01	~~L5586~~
Kutz I N. Wall Comp.	Comp	SS		1/26/12	12:30	2	√	√	√					-02	
Kutz I E. Wall Comp.	Comp	SS		1/26/12	12:30	2	√	√	√					~~-02~~	-03
Kutz I W. Wall Comp.	Comp	SS		1/26/12	12:30	2	√	√	√					~~-03~~	-04
Kutz I Floor	Comp	SS		1/26/12	12:30	2	√	√	√					~~-04~~	-11

Analysis/Container/Preservative

B114

Chain of Custody Page 1 of 2

Prepared by:

ENVIRONMENTAL Science corp

12065 Lebanon Road

Mt. Juliet TN 37122

Phone (615)758-5858

Phone (800) 767-5859

FAX (615)758-5859

CoCode (lab use only)

LTENVCO

Template/Prelogin

Shipped Via: Fed Ex

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks: 9963459251135 Flow_____ Other_____

Relinquisher by:(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx__ UPS__Other__	Condition (lab use only)
	1/27/12	14:00			JE
Relinquisher by:(Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7°C / Bottles Received: 22	
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 1-28-12 / Time: 0800	pH Checked: NCF: √

Company Name/Add

LT Environmental, Inc.

2243 Main Avenue, Ste. 3
Durango, CO 81301

Alternate g

Report to: Ashley Ager

E-mail to: aager@ltenv.com

Project Description: Kutz Gas Plant

City/State Collected: San Juan County, NM

PHONE: 970-946-1093

FAX: 970-385-1873

Client Project No. 034012001

Lab Project #

Collected by: Sam LaRue

Site/Facility ID# Kutz Gas Plant

P.O.#

Collected by(signature): SLRR

Packed on Ice N__ Y✓

Rush? (Lab MUST be Notified)
____Next Day.....100%
____Two Day.....50%
____Three Day.....25%

Date Results Needed

Email?__No_X__Yes
FAX?___No___Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No of Cntrs	8015 TPH	8021 BTEX	300.1 Chloride	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	

Chain of Custody
Page 2 of 2

Prepared by:

ENVIRONMENTAL Science corp
12065 Lebanon Road
Mt. Juliet TN 37122
Phone (615)758-5858
Phone (800) 767-5859
FAX (615)758-5859

CoCode (lab use only)
LTENVCO
Template/Prelogin

Shipped Via: Fed Ex

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT- Other_____

pH_____ Temp_____

Remarks:

Flow_____ Other_____

Relinquisher by(Signature)	Date:	Time:	Received by:(Signature)	Samples returned via: FedEx✓ UPS__Other__	Condition (lab use only)
SLRR	1/27/12	14:00			JE
Relinquisher by:(Signature	Date:	Time:	Received by: (Signature)	Temp: 2.7°C / Bottles Received: 22	
Relinquisher by:(Signature	Date:	Time:	Received for lab by: (Signature)	Date: 1-28-12 / Time: 0900	pH Checked: / NCF: ✓

ESC
L·A·B S·C·I·E·N·C·E·S

NON-CONFORMANCE FORM

Login No.: L558062 -DC

Date: 1/27/12

Daphne

Evaluated by: MATT S

Client: LTENVCO

Non-Conformance (check applicable items)

- ☐ Parameter(s) past holding time
- ☐ Improper temperature
- ☐ Improper container type
- ☐ Improper preservation
- ☐ Container lid not intact
- ☒ Login Clarification Needed
- ☐ Chain of custody is incomplete
- ☐ Chain of Custody is missing (see below)
- ☐ Broken container(s) (See below)
- ☐ Broken container: sufficient sample 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: 9:00 **TSR Initials:** DK
Client contact: AA

Login Instructions: ARO, DRORLA

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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

Report Summary

Monday March 05, 2012

Report Number: L562979
Samples Received: 03/02/12
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 R Richards

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.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

March 05,2012

ESC Sample # : L562979-01

Site ID :

Project # : 034012001

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

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)
Note:

The reported analytical results relate only to the sample submitted
Reported: 03/05/12 14:12 Printed: 03/05/12 14:19

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

March 05,2012

ESC Sample # : L562979-02

Site ID :

Project # : 034012001

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

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:

The reported analytical results relate only to the sample submitted
Reported: 03/05/12 14:12 Printed: 03/05/12 14:19

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

March 05,2012

ESC Sample # : L562979-03

Date Received : March 02, 2012
Description : Kutz Gas Plant

Site ID :

Sample ID : KUTZ II DS

Project # : 034012001

Collected By : Sam LaRue
Collection Date : 03/01/12 14:08

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:

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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.

LT Environmental
2243 Main Ave., Ste. 3
Durango, CO 81301

Billing Information:

Report to: Ashley Ager

Email to: aager@ltenv.com

Project Description: Kutz Gas Plant

City/Sate Collected: San Juan County, NM

Phone: 970-385-1096
FAX: 970-385-1873

Client Project #: 034012001

ESC Key:

Collected by: Sam LaRue

Site/Facility ID#:

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
- ___ Same Day.....200%
- X Next Day.....100%
- ___ Two Day.....50%
- ___ Three Day.....25%

Date Results Needed:

Email? ___No ✓Yes

FAX? ✓No ___Yes

Analysis/Container/Preservativ

B131

Chain of Custody
Page 1 of 1

ESC LABORATORY SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

CoCode LTENVCO (lab use only)

Template/Prelogin

Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX - 8021	TPH - 8015 (GRO, DRO, MRO)	Remarks/Contaminant	Sample # (lab only)
kutz I W. Wall	Comp	SS		3/1/12	13:15	2	X	X	Rush	L562979-01
kutz I Floor	Comp	SS		3/1/12	13:31	2	X	X		-02
kutz II DS	Comp	SS		3/1/12	14:08	2	X	X		-03

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

4355 9317 3

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	3/1/12	15:40	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.7

Bottles Received: 6-40z

Condition: ok (lab use only)

CoC Seals Intact: ___ Y ___ N ___ NA

Date: 3-2-12

Time: 9:00

pH Checked:

NCF: