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TALON LPE

Closure Report
Energy Transfer Partners, L.P.: Nash Draw 6" Poly
|2RP-4035|

March 6, 2017

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Energy Transfer Partners, L.P.

Mr. Mike Bratcher
NMOCD District II
811 S. 1st Street
Artesia, NM 88210

Subject: **Remediation Closure Report**
Energy Transfer Partners, L.P.
Nash Draw 6" Poly (2RP-4035)

Dear Mr. Bratcher,

Energy Transfer Partners (ETP) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The ETP Nash Draw 6" Poly release is located approximately thirty (30) miles southeast of Carlsbad, New Mexico. The legal location for this facility is Unit Letter E, Section 32, Township 23 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.26353 North and -103.91030 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Kermit-Berino fine sands with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 186-feet below ground surface (BGS). Therefore the ranking for this site is a **0** based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On December 5, 2016, ETC Field Services requested that producers shut in to allow maintenance on the pipeline. One of the producers failed to shut in which resulted in an overpressure event causing the line to rupture. The breach in the line was on the surface where the 6-inch poly leaves the production meter and goes below grade. The rupture in the line resulted in the release of approximately 5.2bbls of mixed fluids. The fluid flowed northwest down the side of the lease and into the pasture for approximately 538-feet. There was also an overspray that impacted approximately 1.31 acres of vegetation. Talon mobilized personnel to conduct soil sampling utilizing a hand auger. The results of the soil sampling event are summarized in the table below.

Laboratory Results

See Appendix V for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	8.89	3470	2920	19500
S-1	1	0.0176	24.8	ND	197
S-1	2	ND	--	ND	ND
S-1	3	0.022	--	44.7	408
S-2	0	21.8	1720	3940	25000
S-2	1	ND	142	ND	69.3
S-2	2	0.279	--	ND	26.4
S-2	3	0.00319	--	ND	ND
S-3	0	8.46	1840	602	3810
S-3	1	0.0113	7.53	ND	ND
S-3	2	0.00210	--	ND	ND
S-3	3	0.209	--	ND	25.3
S-4	0	41.0	5070	5850	34400
S-4	1	0.0398	7.16	ND	ND
S-4	2	ND	--	ND	45.3
S-4	3	ND	--	ND	ND
S-5	0	22.3	374	3080	21800
S-5	1	0.0277	8.07	ND	79.2
S-5	2	0.113	--	25.3	141
S-5	3	0.0670	--	ND	120
S-6	0	ND	ND	ND	ND
S-7	0	.00248	ND	ND	ND
S-8	0	0.0310	237	ND	2960
S-8	0.5	ND	--	ND	47.2
S-8	1	0.00465	--	ND	ND
S-9	0	0.00685	168	ND	2520
S-9	0.5	0.0143	--	ND	34.1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-9	1	ND	--	ND	50.3
S-10	0	ND	26.6	ND	68.2
S-10	0.5	ND	--	ND	25.8
S-10	1	ND	--	ND	26
S-11	0	ND	5.06	ND	ND
S-11	0.5	ND	--	ND	ND
S-11	1	ND	--	ND	ND
S-12	0	ND	10.4	ND	ND
S-13	0	0.170	74.1	ND	285
S-13	0.5	ND	--	ND	38.1
S-13	1	0.018	--	ND	ND
S-14	0	ND	20.1	ND	41.6
S-14	0.5	0.0179	--	ND	ND
S-14	1	0.0184	--	ND	ND
S-15	0	ND	9.51	ND	ND
S-15	1	ND	--	ND	ND
BG-1	0	ND	8.66	ND	ND

(--) Analyte Not Tested
(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH, and 1,000 mg/kg for total chlorides.

Proposed Remedial Actions

- The flow path in the vicinity of sample locations S-1 through S-5 were excavated to a depth of 1-foot BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with eolian sand, contoured, and seeded following the approved revegetation plan below.
- Micro-Blaze (a bioremediation agent) was applied to the overspray area in order to treat the staining on the vegetation.

Revegetation Plan

- The area in the pasture was backfilled with eolian sand, contoured to match the surrounding terrain, and left in a "rough" condition to approximate natural surface deviations, control erosion, and promote revegetation.
- BLM LPC seed mixture was planted utilizing a seed drill at the manufactures suggested application rate.
- The site will be periodically monitored for revegetation to insure that revegetation matching or exceeding natural potential plant cover and diversity levels is achieved.
- The site will be monitored for noxious weeds development, specifically African Rue.
- Should noxious weed issues occur or revegetation is slow to occur (accounting for precipitation levels) NMSLO will be consulted on the best course of action to reconcile the issue.

Closure

On behalf of Energy Transfer Partners we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Sheldon Hitchcock
Project Manager

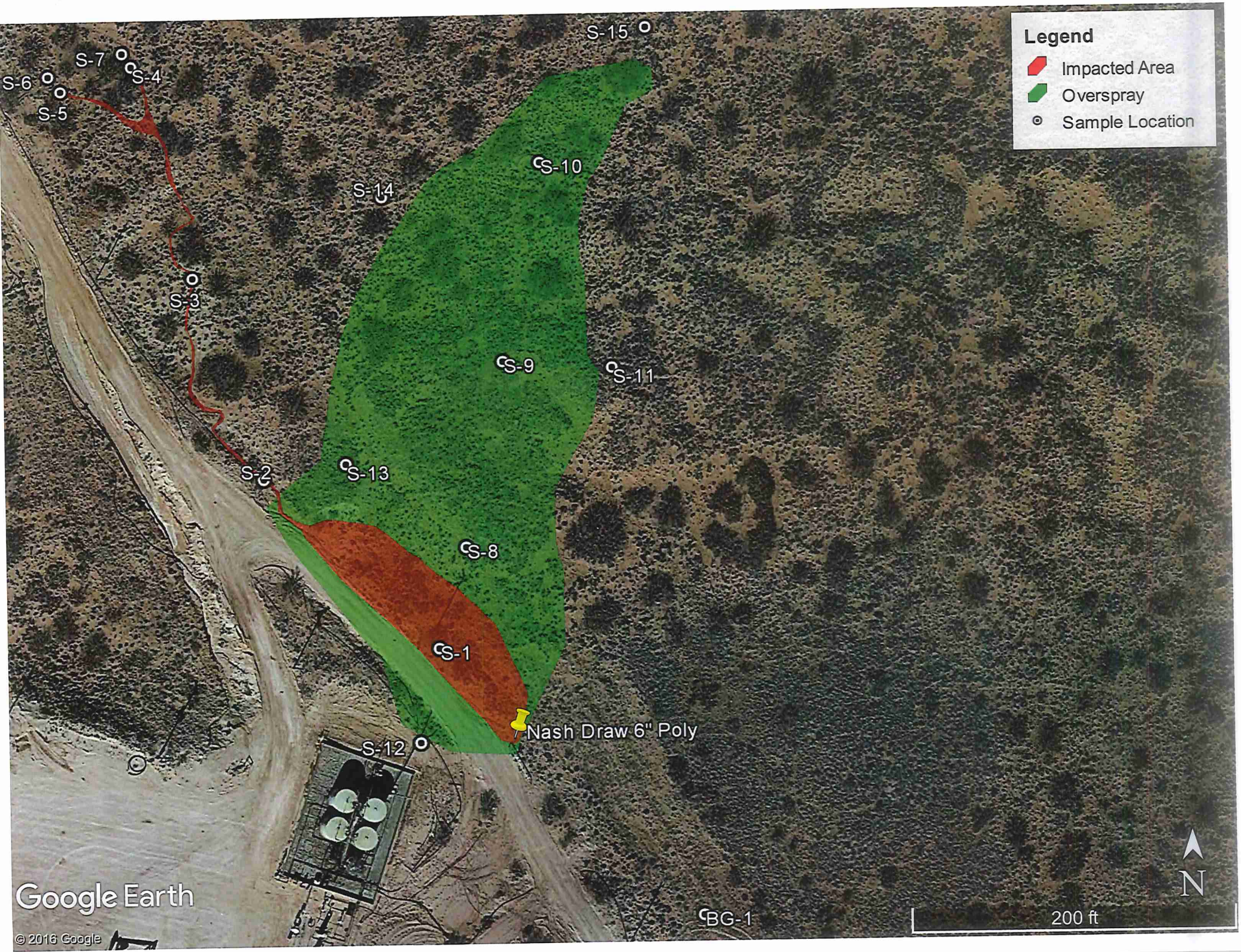
David J. Adkins
District Manager

Attachments

Appendix I	Site Plan
Appendix II	Groundwater Data
Appendix III	Initial & Final C-141
Appendix IV	Seed Label
Appendix V	Laboratory Reports

APPENDIX I

SITE PLAN


Legend
Impacted Area
Overspray
Sample Location
S-15
S-7
S-4
S-6
S-5
S-10
S-14
S-3
S-9
S-11
S-2
S-13
S-8
S-1
Nash Draw 6" Poly
S-12
BG-1
N
200 ft
Google Earth
© 2016 Google

APPENDIX II

GROUNDWATER DATA

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02486	C	ED	3	2	3	19	23S	30E	601304	3572832*	3037	350		
C 03908 POD3	CUB	ED	3	1	3	34	23S	30E	605851	3569640	3222	463		
C 03908 POD2	CUB	ED	3	1	3	34	23S	30E	605872	3569594	3250	518		
C 02108		ED		1	3	08	24S	30E	602702	3566487*	3629	200	186	14
C 02095	CUB	ED		2	3	34	23S	30E	606337	3569759*	3690	554	440	114
C 03908 POD4	CUB	ED	3	2	1	34	23S	30E	606333	3569605	3704	1137		
C 03908 POD1	CUB	ED	3	4	3	34	23S	30E	606331	3569300	3756	760		

Average Depth to Water: **313 feet**

Minimum Depth: **186 feet**

Maximum Depth: **440 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 602664 **Northing (Y):** 3570116 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

APPENDIX III

INITIAL C-141

&

FINAL 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

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 14 2016
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

fAB1635435154
nAB1635435498

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ETC Field Services 371183	Contact: Johnnie Bradford
Address: 600 N. Marienfeld Street, Ste. 700	Telephone No. (432) 250-5542 (cell) (817) 302-9812 (off)
Facility Name: Nash Draw 6" Poly	Facility Type: Pipeline

Surface Owner: State of NM	Mineral Owner:	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	32	23S	30E	507.23	North	576.43	East	Eddy

Latitude 32.26353N Longitude 103.9103W

NATURE OF RELEASE

Type of Release: Gas and Liquid	Volume of Release: 49.17 MMscf/gas – 5.2 BBLs Liquid	Volume Recovered: 0
Source of Release: *Poly Pipeline leaving a meter station over pressured.*	Date and Hour of Occurrence: 12/05/2016 15:00	Date and Hour of Discovery: 12/05/2016 15:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? *NMOCD District 2 Cell Phone (Heather Patterson)*	
By Whom? Johnnie Bradford	Date and Hour: 12/05/2016 20:34	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. *A Watercourse was not affected.*	

If a Watercourse was Impacted, Describe Fully.*
A Watercourse was not affected.

Describe Cause of Problem and Remedial Action Taken.*
ETCFS requested that producers shut in for a couple of hours to allow us to perform maintenance on the pipeline. The producer did not shut in when the pipeline was isolated causing it to overpressure and rupture at the point where the pipe goes underground downstream of the production meter.

Describe Area Affected and Cleanup Action Taken.*
A spray of oil covering an area of 150' x 150' was observed downstream of the leaking pipeline. Oil ran down a lease road and onto pasture approximately 0.1 miles and approximately 0.5' to 1.25' wide, pooling in the lower areas. A contractor has been contacted to remove the contaminated soil and replace with uncontaminated soil. The remediation efforts will adhere to the NMOCD guidelines and all soil will be disposed of at an NMOCD approved landfill.

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: Johnnie Bradford	OIL CONSERVATION DIVISION
Printed Name: Johnnie Bradford	Approved by Environmental Specialist: Signed By Mike Bratcher
Title: Sr. Environmental Specialist	Approval Date: 12/14/16 Expiration Date: N/A
E-mail Address: Johnnie.bradford@energytransfer.com	Conditions of Approval: see attached Attached ☒
Date: 12/14/2016 Phone: (432) 250-5542	

* Attach Additional Sheets If Necessary

2RP-4035

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: ETC Field Services	Contact: Johnnie Bradford
Address: 600 N. Marienfeld St. Ste. 700	Telephone No. (432)-250-5542
Facility Name: Nash Draw 6" Poly	Facility Type: Pipeline

Surface Owner: State	Mineral Owner:	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	32	23S	30E	507.23	N	576.43	E	Eddy

Latitude 32.26353 Longitude -103.9103

NATURE OF RELEASE

Type of Release: Mixed Fluids	Volume of Release: 5.2BBL fluid 49.17MCF gas	Volume Recovered: 0
Source of Release: Poly Line meter station	Date and Hour of Occurrence: 12/5/2016 15:00	Date and Hour of Discovery: 12/5/2016 15:00
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCD District 2: Heather Patterson (cell)	
By Whom? Johnnie Bradford	Date and Hour: 12/5/2016 20:34	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

ETCFS requested that producers shut in for a couple of hours to allow for maintenance on the pipeline. A producer did not shut in when requested causing the line to over pressure and rupture. The poly line was repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.*
The release resulted in an overspray affecting approximately 1.3 acres of vegetation and a flow path running northwest into the pasture for approximately 530-feet. Talon/LPE mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area. Upon receiving analytical data from the soil sampling event a remediation work plan was drafted and subsequently approved by NMOCD and NMSLO. The remediation was conducted in accordance with the approved work plan.

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: Johnnie Bradford	OIL CONSERVATION DIVISION	
Printed Name: Johnnie Bradford	Approved by Environmental Specialist:	
Title: Sr. Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: johnnie.bradford@energytransfer.com	Conditions of Approval:	Attached ☐
Date: 2/8/2016 03/06/2017 Phone: (432)-250-5542		

* Attach Additional Sheets If Necessary

APPENDIX IV

SEED LABEL

Curtis and Curtis, Inc.
4500 North Prince
Clovis, NM 88101
Phone: (575) 762-4759
www.curtisseed.com

2/7/17

Talon / LPE, LTD
1/2 Acre LPC Mix, Drilled Rate
1 - 1/2 Acre Bag @ 13.55 Bulk Pounds
ETP: Nash Draw 6: Poly
Location: E-S32-T23S-R30E
Talon #: 701946.141.01

Lot#: M-14147

Item	Origin	Purity	Germ	Dormant	Total Germination	Test Date	Total PLS Pounds
Sand Dropseed VNS	New Mexico	3.81%	14.00%	83.00%	97.00%	08/16	0.50
Sand Bluestem Chet.	Kansas	18.83%	95.00%	3.00%	98.00%	08/16	2.50
Little Bluestem Cimarron	Texas	11.65%	95.00%	0.00%	95.00%	10/16	1.50
Coreopsis Plains	Colorado	7.94%	93.00%	0.00%	93.00%	06/16	1.00
Plains Bristlegrass VNS	Oklahoma	20.28%	91.00%	0.00%	91.00%(TZ)	08/16	2.50
Big Bluestem Kaw	Kansas	22.59%	98.00%	0.00%	98.00%	11/16	3.00

ther Crop: 0.54%
'eed Seed: 0.38%
ert Matter: 13.98%

There Are 1 Bags For This Mix
This Bag Weighs 13.55 Bulk Pounds
Use This Bag For 1/2 Acres

Total Bulk Pounds: 14

APPENDIX V

LABORATORY REPORTS

Analytical Report 541977

for

Talon LPE

Project Manager: Sheldon Hitckcock

Nash Draw 6" Poly

29-DEC-16

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

29-DEC-16

Project Manager: **Sheldon Hitckcock**
Talon LPE
408 W. Texas St.
Artesia, NM 88210

Reference: XENCO Report No(s): **541977**
Nash Draw 6" Poly
Project Address: 32.26353, -103.91030

Sheldon Hitckcock:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 541977. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 541977 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Kelsey Brooks
Project Manager

Sample Cross Reference 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0'	S	12-09-16 10:00	0 ft	541977-001
S-1 1'	S	12-09-16 10:02	1 ft	541977-002
S-1 2'	S	12-09-16 10:04	2 ft	541977-003
S-1 3'	S	12-09-16 10:06	3 ft	541977-004
S-2 0'	S	12-09-16 10:10	0 ft	541977-005
S-2 1'	S	12-09-16 10:12	1 ft	541977-006
S-2 2'	S	12-09-16 10:14	2 ft	541977-007
S-2 3'	S	12-09-16 10:16	3 ft	541977-008
S-3 0'	S	12-09-16 10:20	0 ft	541977-009
S-3 1'	S	12-09-16 10:22	1 ft	541977-010
S-3 2'	S	12-09-16 10:24	2 ft	541977-011
S-3 3'	S	12-09-16 10:26	3 ft	541977-012
S-4 0'	S	12-09-16 10:30	0 ft	541977-013
S-4 1'	S	12-09-16 10:32	1 ft	541977-014
S-4 2'	S	12-09-16 10:34	2 ft	541977-015
S-4 3'	S	12-09-16 10:36	3 ft	541977-016
S-5 0'	S	12-09-16 10:40	0 ft	541977-017
S-5 1'	S	12-09-16 10:42	1 ft	541977-018
S-5 2'	S	12-09-16 10:44	2 ft	541977-019
S-5 3'	S	12-09-16 10:46	3 ft	541977-020
S-6 0'	S	12-09-16 10:30	0 ft	541977-021
S-7 0'	S	12-09-16 10:35	0 ft	541977-022
S-8 0'	S	12-09-16 11:00	0 ft	541977-023
S-8 0.5'	S	12-09-16 11:02	0.5 ft	541977-024
S-8 1'	S	12-09-16 11:04	1 ft	541977-025
S-9 0'	S	12-09-16 11:10	0 ft	541977-026
S-9 0.5'	S	12-09-16 11:12	0.5 ft	541977-027
S-9 1'	S	12-09-16 11:14	1 ft	541977-028
S-10 0'	S	12-09-16 11:20	0 ft	541977-029
S-10 0.5'	S	12-09-16 11:22	0.5 ft	541977-030
S-10 1'	S	12-09-16 11:24	1 ft	541977-031
S-11 0'	S	12-09-16 12:00	0 ft	541977-032
S-11 0.5'	S	12-09-16 12:02	0.5 ft	541977-033
S-11 1'	S	12-09-16 12:04	1 ft	541977-034
S-12 0'	S	12-09-16 12:20	0 ft	541977-035
S-12 0.5'	S	12-09-16 12:22	0.5 ft	541977-036
S-12 1'	S	12-09-16 12:24	1 ft	541977-037
S-13 0'	S	12-09-16 12:50	0 ft	541977-038
S-13 0.5'	S	12-09-16 12:52	0.5 ft	541977-039
S-13 1'	S	12-09-16 12:54	1 ft	541977-040
S-14 0'	S	12-09-16 13:00	0 ft	541977-041
S-14 0.5'	S	12-09-16 13:02	0.5 ft	541977-042
S-14 1'	S	12-09-16 13:04	1 ft	541977-043

Sample Cross Reference 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

S-15 0'	S	12-09-16 13:20	0 ft	541977-044
S-15 0.5'	S	12-09-16 13:22	0.5 ft	541977-045
S-15 1'	S	12-09-16 13:24	1 ft	541977-046
BG-1	S	12-09-16 14:30		541977-047

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3005680 BTEX by EPA 8021B
Lab Sample ID 541977-020 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 541977-011, -016, -018, -020.
The Laboratory Control Sample for Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3005694 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3005791 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3005887 BTEX by EPA 8021B
Surrogate 1,4-Difluorobenzene, Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 541977-017 S.

Lab Sample ID 541977-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m_p-Xylenes , o-Xylene recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 541977-005, -006, -013, -014, -017, -022, -023, -025, -026, -029, -030, -033, -036.
The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3005888 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Client Name: Talon LPE

Project Name: Nash Draw 6" Poly

Project ID:
Work Order Number(s): *541977*

Report Date: *29-DEC-16*
Date Received: *12/13/2016*

Batch: LBA-3006007 BTEX by EPA 8021B
Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 541977-001.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-1 0'
Lab Sample Id : 541977-001
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.00
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.948	mg/kg	12.19.16 14.50		1
Ethylbenzene	100-41-4	1.08	mg/kg	12.19.16 14.50		1
m_p-Xylenes	179601-23-1	4.94	mg/kg	12.19.16 14.50		1
o-Xylene	95-47-6	1.92	mg/kg	12.19.16 14.50		1
Total Xylenes	1330-20-7	6.86	mg/kg	12.19.16 14.50		1
Total BTEX		8.89	mg/kg	12.19.16 14.50		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006371

Prep Method: E300P
Date Prep: 12.23.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3470	mg/kg	12.23.16 14.02		5

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	2920	mg/kg	12.17.16 00.42		5
C12-C28 Diesel Range Hydrocarbons	PHCG1228	19500	mg/kg	12.17.16 00.42		5
C28-C35 Oil Range Hydrocarbons	PHCG2835	231	mg/kg	12.17.16 00.42		5
Total TPH 1005	PHC635	22700	mg/kg	12.17.16 00.42		5

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-1 1'
Lab Sample Id : 541977-002
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 10.02
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005694

Prep Method: SW5030B
Date Prep: 12.13.16 12.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00258	mg/kg	12.14.16 08.46		1
m_p-Xylenes	179601-23-1	0.00994	mg/kg	12.14.16 08.46		1
o-Xylene	95-47-6	0.00506	mg/kg	12.14.16 08.46		1
Total Xylenes	1330-20-7	0.0150	mg/kg	12.14.16 08.46		1
Total BTEX		0.0176	mg/kg	12.14.16 08.46		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006517

Prep Method: E300P
Date Prep: 12.27.16 16.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.8	mg/kg	12.28.16 11.33		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	197	mg/kg	12.17.16 01.15		1
Total TPH 1005	PHC635	197	mg/kg	12.17.16 01.15		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-1 3'
Lab Sample Id : 541977-004
Sample Depth : 3 ft

Matrix : Soil
Date Collected : 12.09.16 10.06
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005694

Prep Method: SW5030B
Date Prep: 12.13.16 12.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.0161	mg/kg	12.14.16 09.19		1
o-Xylene	95-47-6	0.00591	mg/kg	12.14.16 09.19		1
Total Xylenes	1330-20-7	0.0220	mg/kg	12.14.16 09.19		1
Total BTEX		0.0220	mg/kg	12.14.16 09.19		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	44.7	mg/kg	12.17.16 02.21		1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	408	mg/kg	12.17.16 02.21		1
Total TPH 1005	PHC635	453	mg/kg	12.17.16 02.21		1

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-2 0'**
Lab Sample Id : 541977-005
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.10
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.480	mg/kg	12.16.16 18.03		20
Toluene	108-88-3	4.85	mg/kg	12.16.16 18.03		20
Ethylbenzene	100-41-4	2.79	mg/kg	12.16.16 18.03		20
m_p-Xylenes	179601-23-1	9.86	mg/kg	12.16.16 18.03		20
o-Xylene	95-47-6	3.80	mg/kg	12.16.16 18.03		20
Total Xylenes	1330-20-7	13.7	mg/kg	12.16.16 18.03		20
Total BTEX		21.8	mg/kg	12.16.16 18.03		20

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006371

Prep Method: E300P
Date Prep: 12.23.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1720	mg/kg	12.23.16 14.09		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	3940	mg/kg	12.17.16 02.54		5
C12-C28 Diesel Range Hydrocarbons	PHCG1228	25000	mg/kg	12.17.16 02.54		5
C28-C35 Oil Range Hydrocarbons	PHCG2835	684	mg/kg	12.17.16 02.54		5
Total TPH 1005	PHC635	29600	mg/kg	12.17.16 02.54		5

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-2 1'**
Lab Sample Id : 541977-006
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 10.12
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006517

Prep Method: E300P
Date Prep: 12.27.16 16.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	142	mg/kg	12.28.16 11.47		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	69.3	mg/kg	12.17.16 03.28		1
Total TPH 1005	PHC635	69.3	mg/kg	12.17.16 03.28		1

Sample Id : **S-2 2'**
Lab Sample Id : 541977-007
Sample Depth : 2 ft

Matrix : Soil
Date Collected : 12.09.16 10.14
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005694

Prep Method: SW5030B
Date Prep: 12.13.16 12.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.00460	mg/kg	12.14.16 10.07		1
Ethylbenzene	100-41-4	0.00356	mg/kg	12.14.16 10.07		1
m_p-Xylenes	179601-23-1	0.0140	mg/kg	12.14.16 10.07		1
o-Xylene	95-47-6	0.00570	mg/kg	12.14.16 10.07		1
Total Xylenes	1330-20-7	0.0197	mg/kg	12.14.16 10.07		1
Total BTEX		0.0279	mg/kg	12.14.16 10.07		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	26.4	mg/kg	12.17.16 04.02		1
Total TPH 1005	PHC635	26.4	mg/kg	12.17.16 04.02		1

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-2 3'**
Lab Sample Id : 541977-008
Sample Depth : 3 ft

Matrix : Soil
Date Collected : 12.09.16 10.16
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005694

Prep Method: SW5030B
Date Prep: 12.13.16 12.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.00319	mg/kg	12.14.16 10.48		1
Total Xylenes	1330-20-7	0.00319	mg/kg	12.14.16 10.48		1
Total BTEX		0.00319	mg/kg	12.14.16 10.48		1

Sample Id : **S-3 0'**
Lab Sample Id : 541977-009
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.20
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005888

Prep Method: SW5030B
Date Prep: 12.16.16 15.50

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0658	mg/kg	12.17.16 02.39		1
Toluene	108-88-3	1.67	mg/kg	12.17.16 02.39		1
Ethylbenzene	100-41-4	0.996	mg/kg	12.17.16 02.39		1
m_p-Xylenes	179601-23-1	4.21	mg/kg	12.17.16 02.39	E	1
o-Xylene	95-47-6	1.52	mg/kg	12.17.16 02.39		1
Total Xylenes	1330-20-7	5.73	mg/kg	12.17.16 02.39		1
Total BTEX		8.46	mg/kg	12.17.16 02.39		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006371

Prep Method: E300P
Date Prep: 12.23.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1840	mg/kg	12.23.16 14.16		5

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	602	mg/kg	12.17.16 05.11		1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	3810	mg/kg	12.17.16 05.11		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	49.2	mg/kg	12.17.16 05.11		1
Total TPH 1005	PHC635	4460	mg/kg	12.17.16 05.11		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-3 1'**
Lab Sample Id : 541977-010
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 10.22
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005694

Prep Method: SW5030B
Date Prep: 12.13.16 12.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.00756	mg/kg	12.14.16 11.20		1
o-Xylene	95-47-6	0.00378	mg/kg	12.14.16 11.20		1
Total Xylenes	1330-20-7	0.0113	mg/kg	12.14.16 11.20		1
Total BTEX		0.0113	mg/kg	12.14.16 11.20		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006517

Prep Method: E300P
Date Prep: 12.27.16 16.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.53	mg/kg	12.28.16 12.01		1

Sample Id : **S-3 2'**
Lab Sample Id : 541977-011
Sample Depth : 2 ft

Matrix : Soil
Date Collected : 12.09.16 10.24
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005680

Prep Method: SW5030B
Date Prep: 12.14.16 14.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.00210	mg/kg	12.14.16 18.35		1
Total Xylenes	1330-20-7	0.00210	mg/kg	12.14.16 18.35		1
Total BTEX		0.00210	mg/kg	12.14.16 18.35		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-3 3'**
Lab Sample Id : 541977-012
Sample Depth : 3 ft

Matrix : Soil
Date Collected : 12.09.16 10.26
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.0209	mg/kg	12.19.16 15.28		1
Ethylbenzene	100-41-4	0.0515	mg/kg	12.19.16 15.28		1
m_p-Xylenes	179601-23-1	0.0904	mg/kg	12.19.16 15.28		1
o-Xylene	95-47-6	0.0466	mg/kg	12.19.16 15.28		1
Total Xylenes	1330-20-7	0.137	mg/kg	12.19.16 15.28		1
Total BTEX		0.209	mg/kg	12.19.16 15.28		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	25.3	mg/kg	12.17.16 07.31		1
Total TPH 1005	PHC635	25.3	mg/kg	12.17.16 07.31		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-4 0'**
Lab Sample Id : 541977-013
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.30
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.337	mg/kg	12.16.16 18.19		20
Toluene	108-88-3	6.08	mg/kg	12.16.16 18.19		20
Ethylbenzene	100-41-4	6.00	mg/kg	12.16.16 18.19		20
m_p-Xylenes	179601-23-1	21.0	mg/kg	12.16.16 18.19	E	20
o-Xylene	95-47-6	7.60	mg/kg	12.16.16 18.19		20
Total Xylenes	1330-20-7	28.6	mg/kg	12.16.16 18.19		20
Total BTEX		41.0	mg/kg	12.16.16 18.19		20

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006371

Prep Method: E300P
Date Prep: 12.23.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5070	mg/kg	12.23.16 14.23		5

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	5850	mg/kg	12.19.16 10.21		10
C12-C28 Diesel Range Hydrocarbons	PHCG1228	34400	mg/kg	12.19.16 10.21		10
C28-C35 Oil Range Hydrocarbons	PHCG2835	574	mg/kg	12.19.16 10.21		10
Total TPH 1005	PHC635	40800	mg/kg	12.19.16 10.21		10

Final 1.000

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-4 1'**
Lab Sample Id : 541977-014
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 10.32
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00782	mg/kg	12.16.16 16.41		1
m_p-Xylenes	179601-23-1	0.0156	mg/kg	12.16.16 16.41		1
o-Xylene	95-47-6	0.0164	mg/kg	12.16.16 16.41		1
Total Xylenes	1330-20-7	0.0320	mg/kg	12.16.16 16.41		1
Total BTEX		0.0398	mg/kg	12.16.16 16.41		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006517

Prep Method: E300P
Date Prep: 12.27.16 16.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.16	mg/kg	12.28.16 12.15		1

Sample Id : **S-4 2'**
Lab Sample Id : 541977-015
Sample Depth : 2 ft

Matrix : Soil
Date Collected : 12.09.16 10.34
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	45.3	mg/kg	12.17.16 09.10		1
Total TPH 1005	PHC635	45.3	mg/kg	12.17.16 09.10		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-5 0'
Lab Sample Id : 541977-017
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.40
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0517	mg/kg	12.16.16 12.21		20
Toluene	108-88-3	2.29	mg/kg	12.16.16 12.21		20
Ethylbenzene	100-41-4	3.10	mg/kg	12.16.16 12.21		20
m_p-Xylenes	179601-23-1	11.9	mg/kg	12.16.16 12.21		20
o-Xylene	95-47-6	4.93	mg/kg	12.16.16 12.21		20
Total Xylenes	1330-20-7	16.8	mg/kg	12.16.16 12.21		20
Total BTEX		22.3	mg/kg	12.16.16 12.21		20

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006371

Prep Method: E300P
Date Prep: 12.23.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	374	mg/kg	12.23.16 14.30		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	3080	mg/kg	12.19.16 10.47		10
C12-C28 Diesel Range Hydrocarbons	PHCG1228	21800	mg/kg	12.19.16 10.47		10
C28-C35 Oil Range Hydrocarbons	PHCG2835	470	mg/kg	12.19.16 10.47		10
Total TPH 1005	PHC635	25400	mg/kg	12.19.16 10.47		10

Final 1.000

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-5 1'
Lab Sample Id : 541977-018
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 10.42
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005680

Prep Method: SW5030B
Date Prep: 12.14.16 14.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00378	mg/kg	12.14.16 19.56		1
m_p-Xylenes	179601-23-1	0.0167	mg/kg	12.14.16 19.56		1
o-Xylene	95-47-6	0.00722	mg/kg	12.14.16 19.56		1
Total Xylenes	1330-20-7	0.0239	mg/kg	12.14.16 19.56		1
Total BTEX		0.0277	mg/kg	12.14.16 19.56		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006517

Prep Method: E300P
Date Prep: 12.27.16 16.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.07	mg/kg	12.28.16 12.29		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	79.2	mg/kg	12.17.16 10.45		1
Total TPH 1005	PHC635	79.2	mg/kg	12.17.16 10.45		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-5 2'**
Lab Sample Id : 541977-019
Sample Depth : 2 ft

Matrix : Soil
Date Collected : 12.09.16 10.44
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005888

Prep Method: SW5030B
Date Prep: 12.16.16 15.50

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.0166	mg/kg	12.17.16 02.22		1
m_p-Xylenes	179601-23-1	0.0665	mg/kg	12.17.16 02.22		1
o-Xylene	95-47-6	0.0298	mg/kg	12.17.16 02.22		1
Total Xylenes	1330-20-7	0.0963	mg/kg	12.17.16 02.22		1
Total BTEX		0.113	mg/kg	12.17.16 02.22		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	25.3	mg/kg	12.17.16 11.21		1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	141	mg/kg	12.17.16 11.21		1
Total TPH 1005	PHC635	166	mg/kg	12.17.16 11.21		1

Sample Id : **S-5 3'**
Lab Sample Id : 541977-020
Sample Depth : 3 ft

Matrix : Soil
Date Collected : 12.09.16 10.46
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005680

Prep Method: SW5030B
Date Prep: 12.14.16 10.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.00222	mg/kg	12.14.16 14.15		1
Ethylbenzene	100-41-4	0.00911	mg/kg	12.14.16 14.15		1
m_p-Xylenes	179601-23-1	0.0392	mg/kg	12.14.16 14.15		1
o-Xylene	95-47-6	0.0165	mg/kg	12.14.16 14.15		1
Total Xylenes	1330-20-7	0.0557	mg/kg	12.14.16 14.15		1
Total BTEX		0.0670	mg/kg	12.14.16 14.15		1

Analytical Method : TPH by Texas1005
Seq Number 3006009

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	120	mg/kg	12.17.16 11.58		1
Total TPH 1005	PHC635	120	mg/kg	12.17.16 11.58		1

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : S-7 0'
Lab Sample Id : 541977-022
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 10.35
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00248	mg/kg	12.16.16 15.39		1
Total BTEX		0.00248	mg/kg	12.16.16 15.39		1

Sample Id : S-8 0'
Lab Sample Id : 541977-023
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 11.00
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.00766	mg/kg	12.16.16 14.50		1
Ethylbenzene	100-41-4	0.00686	mg/kg	12.16.16 14.50		1
m_p-Xylenes	179601-23-1	0.00388	mg/kg	12.16.16 14.50		1
o-Xylene	95-47-6	0.0126	mg/kg	12.16.16 14.50		1
Total Xylenes	1330-20-7	0.0165	mg/kg	12.16.16 14.50		1
Total BTEX		0.0310	mg/kg	12.16.16 14.50		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	237	mg/kg	12.23.16 16.02		1

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	2960	mg/kg	12.17.16 16.26		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	159	mg/kg	12.17.16 16.26		1
Total TPH 1005	PHC635	3120	mg/kg	12.17.16 16.26		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-8 0.5'**
Lab Sample Id : 541977-024
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 11.02
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	47.2	mg/kg	12.17.16 17.02		1
Total TPH 1005	PHC635	47.2	mg/kg	12.17.16 17.02		1

Sample Id : **S-8 1'**
Lab Sample Id : 541977-025
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 11.04
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00212	mg/kg	12.16.16 14.17		1
m_p-Xylenes	179601-23-1	0.00253	mg/kg	12.16.16 14.17		1
Total Xylenes	1330-20-7	0.00253	mg/kg	12.16.16 14.17		1
Total BTEX		0.00465	mg/kg	12.16.16 14.17		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-9 0'**
Lab Sample Id : 541977-026
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 11.10
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.00685	mg/kg	12.16.16 14.00		1
Total Xylenes	1330-20-7	0.00685	mg/kg	12.16.16 14.00		1
Total BTEX		0.00685	mg/kg	12.16.16 14.00		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	168	mg/kg	12.23.16 16.23		1

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	2520	mg/kg	12.17.16 18.10		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	260	mg/kg	12.17.16 18.10		1
Total TPH 1005	PHC635	2780	mg/kg	12.17.16 18.10		1

Sample Id : **S-9 0.5'**
Lab Sample Id : 541977-027
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 11.12
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	0.0143	mg/kg	12.19.16 12.36		1
Total Xylenes	1330-20-7	0.0143	mg/kg	12.19.16 12.36		1
Total BTEX		0.0143	mg/kg	12.19.16 12.36		1

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	34.1	mg/kg	12.17.16 18.43		1
Total TPH 1005	PHC635	34.1	mg/kg	12.17.16 18.43		1

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-9 1'**
Lab Sample Id : 541977-028
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 11.14
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	50.3	mg/kg	12.17.16 19.16		1
Total TPH 1005	PHC635	50.3	mg/kg	12.17.16 19.16		1

Sample Id : **S-10 0'**
Lab Sample Id : 541977-029
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 11.20
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.6	mg/kg	12.23.16 16.30		1

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	68.2	mg/kg	12.17.16 19.47		1
Total TPH 1005	PHC635	68.2	mg/kg	12.17.16 19.47		1

Sample Id : **S-10 0.5'**
Lab Sample Id : 541977-030
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 11.22
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	25.8	mg/kg	12.17.16 20.18		1
Total TPH 1005	PHC635	25.8	mg/kg	12.17.16 20.18		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-10 1'**
Lab Sample Id : 541977-031
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 11.24
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	26.0	mg/kg	12.17.16 21.20		1
Total TPH 1005	PHC635	26.0	mg/kg	12.17.16 21.20		1

Sample Id : **S-11 0'**
Lab Sample Id : 541977-032
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 12.00
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.06	mg/kg	12.23.16 16.37		1

Sample Id : **S-12 0'**
Lab Sample Id : 541977-035
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 12.20
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	mg/kg	12.23.16 16.44		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-12 0.5'**
Lab Sample Id : 541977-036
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 12.22
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005887

Prep Method: SW5030B
Date Prep: 12.15.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Ethylbenzene	100-41-4	0.00845	mg/kg	12.16.16 12.38		1
m_p-Xylenes	179601-23-1	0.0120	mg/kg	12.16.16 12.38		1
o-Xylene	95-47-6	0.0138	mg/kg	12.16.16 12.38		1
Total Xylenes	1330-20-7	0.0258	mg/kg	12.16.16 12.38		1
Total BTEX		0.0343	mg/kg	12.16.16 12.38		1

Sample Id : **S-12 1'**
Lab Sample Id : 541977-037
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 12.24
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3005888

Prep Method: SW5030B
Date Prep: 12.16.16 15.50

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	0.00677	mg/kg	12.17.16 01.31		1
Total Xylenes	1330-20-7	0.00677	mg/kg	12.17.16 01.31		1
Total BTEX		0.00677	mg/kg	12.17.16 01.31		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-13 0'**
Lab Sample Id : 541977-038
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 12.50
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0239	mg/kg	12.19.16 12.53		1
Toluene	108-88-3	0.0148	mg/kg	12.19.16 12.53		1
Ethylbenzene	100-41-4	0.0738	mg/kg	12.19.16 12.53		1
m_p-Xylenes	179601-23-1	0.0208	mg/kg	12.19.16 12.53		1
o-Xylene	95-47-6	0.0364	mg/kg	12.19.16 12.53		1
Total Xylenes	1330-20-7	0.0572	mg/kg	12.19.16 12.53		1
Total BTEX		0.170	mg/kg	12.19.16 12.53		1

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	74.1	mg/kg	12.23.16 16.51		1

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	285	mg/kg	12.18.16 00.42		1
Total TPH 1005	PHC635	285	mg/kg	12.18.16 00.42		1

Sample Id : **S-13 0.5'**
Lab Sample Id : 541977-039
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 12.52
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : TPH by Texas1005
Seq Number 3006013

Prep Method: TX1005P
Date Prep: 12.16.16 17.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	38.1	mg/kg	12.18.16 01.10		1
Total TPH 1005	PHC635	38.1	mg/kg	12.18.16 01.10		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-13 1'**
Lab Sample Id : 541977-040
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 12.54
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Toluene	108-88-3	0.0184	mg/kg	12.19.16 13.09		1
Total BTEX		0.0184	mg/kg	12.19.16 13.09		1

Sample Id : **S-14 0'**
Lab Sample Id : 541977-041
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 13.00
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.1	mg/kg	12.23.16 16.58		1

Analytical Method : TPH by Texas1005
Seq Number 3005943

Prep Method: TX1005P
Date Prep: 12.16.16 19.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
C12-C28 Diesel Range Hydrocarbons	PHCG1228	41.6	mg/kg	12.18.16 04.46		1
Total TPH 1005	PHC635	41.6	mg/kg	12.18.16 04.46		1

Sample Id : **S-14 0.5'**
Lab Sample Id : 541977-042
Sample Depth : 0.5 ft

Matrix : Soil
Date Collected : 12.09.16 13.02
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
m_p-Xylenes	179601-23-1	0.0179	mg/kg	12.19.16 13.26		1
Total Xylenes	1330-20-7	0.0179	mg/kg	12.19.16 13.26		1
Total BTEX		0.0179	mg/kg	12.19.16 13.26		1

Hits Summary 541977

Talon LPE, Artesia, NM

Nash Draw 6" Poly

Sample Id : **S-14 1'**
Lab Sample Id : 541977-043
Sample Depth : 1 ft

Matrix : Soil
Date Collected : 12.09.16 13.04
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : BTEX by EPA 8021B
Seq Number 3006007

Prep Method: SW5030B
Date Prep: 12.19.16 09.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
o-Xylene	95-47-6	0.0184	mg/kg	12.19.16 13.42		1
Total Xylenes	1330-20-7	0.0184	mg/kg	12.19.16 13.42		1
Total BTEX		0.0184	mg/kg	12.19.16 13.42		1

Sample Id : **S-15 0'**
Lab Sample Id : 541977-044
Sample Depth : 0 ft

Matrix : Soil
Date Collected : 12.09.16 13.20
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.51	mg/kg	12.23.16 17.05		1

Sample Id : **BG-1**
Lab Sample Id : 541977-047

Matrix : Soil
Date Collected : 12.09.16 14.30
Date Received : 12.13.16 10.32

% Moisture :
Basis : Wet Weight

Analytical Method : Inorganic Anions by EPA 300/300.1
Seq Number 3006374

Prep Method: E300P
Date Prep: 12.23.16 15.00

Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.66	mg/kg	12.23.16 17.12		1

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-001		541977-002		541977-003		541977-004		541977-005		541977-006	
	Field Id:	S-1 0'		S-1 1'		S-1 2'		S-1 3'		S-2 0'		S-2 1'	
	Depth:	0- ft		1- ft		2- ft		3- ft		0- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 10:00		Dec-09-16 10:02		Dec-09-16 10:04		Dec-09-16 10:06		Dec-09-16 10:10		Dec-09-16 10:12	
BTEX by EPA 8021B	*Extracted:*	Dec-19-16 09:00		Dec-13-16 12:00		Dec-16-16 15:50		Dec-13-16 12:00		Dec-15-16 15:00		Dec-15-16 15:00	
	Analyzed:	Dec-19-16 14:50		Dec-14-16 08:46		Dec-17-16 00:07		Dec-14-16 09:19		Dec-16-16 18:03		Dec-16-16 17:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.0156	0.0156	<0.00151	0.00151	<0.00750	0.00750	<0.00151	0.00151	0.480	0.0301	<0.00487	0.00487
Toluene		0.948	0.0208	<0.00202	0.00202	<0.0100	0.0100	<0.00201	0.00201	4.85	0.0402	<0.00649	0.00649
Ethylbenzene		1.08	0.0208	0.00258	0.00202	<0.0100	0.0100	<0.00201	0.00201	2.79	0.0402	<0.00649	0.00649
m_p-Xylenes		4.94	0.0208	0.00994	0.00202	<0.0100	0.0100	0.0161	0.00201	9.86	0.0402	<0.00649	0.00649
o-Xylene		1.92	0.0313	0.00506	0.00302	<0.0150	0.0150	0.00591	0.00302	3.80	0.0602	<0.00974	0.00974
Total Xylenes		6.86	0.0208	0.0150	0.00202	<0.0100	0.0100	0.0220	0.00201	13.7	0.0402	<0.00649	0.00649
Total BTEX		8.89	0.0156	0.0176	0.00151	<0.00750	0.00750	0.0220	0.00151	21.8	0.0301	<0.00487	0.00487
Inorganic Anions by EPA 300/300.1	*Extracted:*	Dec-23-16 09:00		Dec-27-16 16:00						Dec-23-16 09:00		Dec-27-16 16:00	
	Analyzed:	Dec-23-16 14:02		Dec-28-16 11:33						Dec-23-16 14:09		Dec-28-16 11:47	
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Chloride		3470	25.0	24.8	5.00					1720	5.00	142	5.00
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-17-16 00:42		Dec-17-16 01:15		Dec-17-16 01:48		Dec-17-16 02:21		Dec-17-16 02:54		Dec-17-16 03:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		2920	125	<24.9	24.9	<25.0	25.0	44.7	25.0	3940	125	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		19500	125	197	24.9	<25.0	25.0	408	25.0	25000	125	69.3	25.0
C28-C35 Oil Range Hydrocarbons		231	125	<24.9	24.9	<25.0	25.0	<25.0	25.0	684	125	<25.0	25.0
Total TPH 1005		22700	125	197	24.9	<25.0	25.0	453	25.0	29600	125	69.3	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-007		541977-008		541977-009		541977-010		541977-011		541977-012	
	Field Id:	S-2 2'		S-2 3'		S-3 0'		S-3 1'		S-3 2'		S-3 3'	
	Depth:	2- ft		3- ft		0- ft		1- ft		2- ft		3- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 10:14		Dec-09-16 10:16		Dec-09-16 10:20		Dec-09-16 10:22		Dec-09-16 10:24		Dec-09-16 10:26	
BTEX by EPA 8021B	*Extracted:*	Dec-13-16 12:00		Dec-13-16 12:00		Dec-16-16 15:50		Dec-13-16 12:00		Dec-14-16 14:00		Dec-19-16 09:00	
	Analyzed:	Dec-14-16 10:07		Dec-14-16 10:48		Dec-17-16 02:39		Dec-14-16 11:20		Dec-14-16 18:35		Dec-19-16 15:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00150	0.00150	<0.00151	0.00151	0.0658	0.00728	<0.00151	0.00151	<0.00152	0.00152	<0.0150	0.0150
Toluene		0.00460	0.00200	<0.00201	0.00201	1.67	0.00971	<0.00202	0.00202	<0.00203	0.00203	0.0209	0.0200
Ethylbenzene		0.00356	0.00200	<0.00201	0.00201	0.996	0.00971	<0.00202	0.00202	<0.00203	0.00203	0.0515	0.0200
m_p-Xylenes		0.0140	0.00200	0.00319	0.00201	4.21 E	0.00971	0.00756	0.00202	0.00210	0.00203	0.0904	0.0200
o-Xylene		0.00570	0.00300	<0.00301	0.00301	1.52	0.0146	0.00378	0.00302	<0.00304	0.00304	0.0466	0.0300
Total Xylenes		0.0197	0.00200	0.00319	0.00201	5.73	0.00971	0.0113	0.00202	0.00210	0.00203	0.137	0.0200
Total BTEX		0.0279	0.00150	0.00319	0.00151	8.46	0.00728	0.0113	0.00151	0.00210	0.00152	0.209	0.0150
Inorganic Anions by EPA 300/300.1	*Extracted:*					Dec-23-16 09:00		Dec-27-16 16:00					
	Analyzed:					Dec-23-16 14:16		Dec-28-16 12:01					
	Units/RL:					mg/kg	RL	mg/kg	RL				
Chloride						1840	25.0	7.53	5.00				
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-17-16 04:02		Dec-17-16 04:36		Dec-17-16 05:11		Dec-17-16 05:45		Dec-17-16 06:56		Dec-17-16 07:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		<25.0	25.0	<25.0	25.0	602	24.9	<24.9	24.9	<24.9	24.9	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		26.4	25.0	<25.0	25.0	3810	24.9	<24.9	24.9	<24.9	24.9	25.3	25.0
C28-C35 Oil Range Hydrocarbons		<25.0	25.0	<25.0	25.0	49.2	24.9	<24.9	24.9	<24.9	24.9	<25.0	25.0
Total TPH 1005		26.4	25.0	<25.0	25.0	4460	24.9	<24.9	24.9	<24.9	24.9	25.3	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-013		541977-014		541977-015		541977-016		541977-017		541977-018	
	Field Id:	S-4 0'		S-4 1'		S-4 2'		S-4 3'		S-5 0'		S-5 1'	
	Depth:	0- ft		1- ft		2- ft		3- ft		0- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 10:30		Dec-09-16 10:32		Dec-09-16 10:34		Dec-09-16 10:36		Dec-09-16 10:40		Dec-09-16 10:42	
BTEX by EPA 8021B	*Extracted:*	Dec-15-16 15:00		Dec-15-16 15:00		Dec-16-16 15:50		Dec-14-16 14:00		Dec-15-16 15:00		Dec-14-16 14:00	
	Analyzed:	Dec-16-16 18:19		Dec-16-16 16:41		Dec-17-16 00:58		Dec-14-16 19:40		Dec-16-16 12:21		Dec-14-16 19:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.337	0.0295	<0.00503	0.00503	<0.00758	0.00758	<0.00152	0.00152	0.0517	0.0295	<0.00150	0.00150
Toluene		6.08	0.0393	<0.00671	0.00671	<0.0101	0.0101	<0.00203	0.00203	2.29	0.0393	<0.00200	0.00200
Ethylbenzene		6.00	0.0393	0.00782	0.00671	<0.0101	0.0101	<0.00203	0.00203	3.10	0.0393	0.00378	0.00200
m_p-Xylenes		21.0 E	0.0393	0.0156	0.00671	<0.0101	0.0101	<0.00203	0.00203	11.9	0.0393	0.0167	0.00200
o-Xylene		7.60	0.0589	0.0164	0.0101	<0.0152	0.0152	<0.00305	0.00305	4.93	0.0589	0.00722	0.00299
Total Xylenes		28.6	0.0393	0.0320	0.00671	<0.0101	0.0101	<0.00203	0.00203	16.8	0.0393	0.0239	0.00200
Total BTEX		41.0	0.0295	0.0398	0.00503	<0.00758	0.00758	<0.00152	0.00152	22.3	0.0295	0.0277	0.00150
Inorganic Anions by EPA 300/300.1	*Extracted:*	Dec-23-16 09:00		Dec-27-16 16:00						Dec-23-16 09:00		Dec-27-16 16:00	
	Analyzed:	Dec-23-16 14:23		Dec-28-16 12:15						Dec-23-16 14:30		Dec-28-16 12:29	
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Chloride		5070	25.0	7.16	5.00					374	5.00	8.07	5.00
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-19-16 10:21		Dec-17-16 08:38		Dec-17-16 09:10		Dec-17-16 09:42		Dec-19-16 10:47		Dec-17-16 10:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		5850	250	<25.0	25.0	<24.9	24.9	<25.0	25.0	3080	250	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		34400	250	<25.0	25.0	45.3	24.9	<25.0	25.0	21800	250	79.2	25.0
C28-C35 Oil Range Hydrocarbons		574	250	<25.0	25.0	<24.9	24.9	<25.0	25.0	470	250	<25.0	25.0
Total TPH 1005		40800	250	<25.0	25.0	45.3	24.9	<25.0	25.0	25400	250	79.2	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-019		541977-020		541977-021		541977-022		541977-023		541977-024	
	Field Id:	S-5 2'		S-5 3'		S-6 0'		S-7 0'		S-8 0'		S-8 0.5'	
	Depth:	2- ft		3- ft		0- ft		0- ft		0- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 10:44		Dec-09-16 10:46		Dec-09-16 10:30		Dec-09-16 10:35		Dec-09-16 11:00		Dec-09-16 11:02	
BTEX by EPA 8021B	*Extracted:*	Dec-16-16 15:50		Dec-14-16 10:00		Dec-19-16 09:00		Dec-15-16 15:00		Dec-15-16 15:00		Dec-16-16 15:50	
	Analyzed:	Dec-17-16 02:22		Dec-14-16 14:15		Dec-19-16 12:20		Dec-16-16 15:39		Dec-16-16 14:50		Dec-17-16 01:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00750	0.00750	<0.00150	0.00150	<0.00701	0.00701	<0.00150	0.00150	<0.00152	0.00152	<0.00149	0.00149
Toluene		<0.0100	0.0100	0.00222	0.00200	<0.00935	0.00935	<0.00200	0.00200	0.00766	0.00202	<0.00198	0.00198
Ethylbenzene		0.0166	0.0100	0.00911	0.00200	<0.00935	0.00935	0.00248	0.00200	0.00686	0.00202	<0.00198	0.00198
m_p-Xylenes		0.0665	0.0100	0.0392	0.00200	<0.00935	0.00935	<0.00200	0.00200	0.00388	0.00202	<0.00198	0.00198
o-Xylene		0.0298	0.0150	0.0165	0.00300	<0.0140	0.0140	<0.00300	0.00300	0.0126	0.00304	<0.00298	0.00298
Total Xylenes		0.0963	0.0100	0.0557	0.00200	<0.00935	0.00935	<0.00200	0.00200	0.0165	0.00202	<0.00198	0.00198
Total BTEX		0.113	0.00750	0.0670	0.00150	<0.00701	0.00701	0.00248	0.00150	0.0310	0.00152	<0.00149	0.00149
Inorganic Anions by EPA 300/300.1	*Extracted:*					Dec-23-16 09:00		Dec-23-16 15:00		Dec-23-16 15:00			
	Analyzed:					Dec-23-16 14:37		Dec-23-16 15:41		Dec-23-16 16:02			
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride						<5.00	5.00	<5.00	5.00	237	5.00		
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-17-16 11:21		Dec-17-16 11:58		Dec-17-16 15:26		Dec-17-16 15:56		Dec-17-16 16:26		Dec-17-16 17:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		25.3	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		141	25.0	120	25.0	<25.0	25.0	<25.0	25.0	2960	24.9	47.2	25.0
C28-C35 Oil Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	159	24.9	<25.0	25.0
Total TPH 1005		166	25.0	120	25.0	<25.0	25.0	<25.0	25.0	3120	24.9	47.2	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-025		541977-026		541977-027		541977-028		541977-029		541977-030	
	Field Id:	S-8 1'		S-9 0'		S-9 0.5'		S-9 1'		S-10 0'		S-10 0.5'	
	Depth:	1- ft		0- ft		0.5- ft		1- ft		0- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 11:04		Dec-09-16 11:10		Dec-09-16 11:12		Dec-09-16 11:14		Dec-09-16 11:20		Dec-09-16 11:22	
BTEX by EPA 8021B	*Extracted:*	Dec-15-16 15:00		Dec-15-16 15:00		Dec-19-16 09:00		Dec-16-16 15:50		Dec-15-16 15:00		Dec-15-16 15:00	
	Analyzed:	Dec-16-16 14:17		Dec-16-16 14:00		Dec-19-16 12:36		Dec-17-16 00:41		Dec-16-16 17:13		Dec-16-16 16:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00150	0.00150	<0.00152	0.00152	<0.00714	0.00714	<0.00151	0.00151	<0.00371	0.00371	<0.00478	0.00478
Toluene		<0.00200	0.00200	<0.00203	0.00203	<0.00952	0.00952	<0.00201	0.00201	<0.00495	0.00495	<0.00637	0.00637
Ethylbenzene		0.00212	0.00200	<0.00203	0.00203	<0.00952	0.00952	<0.00201	0.00201	<0.00495	0.00495	<0.00637	0.00637
m_p-Xylenes		0.00253	0.00200	0.00685	0.00203	<0.00952	0.00952	<0.00201	0.00201	<0.00495	0.00495	<0.00637	0.00637
o-Xylene		<0.00301	0.00301	<0.00304	0.00304	0.0143	0.0143	<0.00301	0.00301	<0.00743	0.00743	<0.00955	0.00955
Total Xylenes		0.00253	0.00200	0.00685	0.00203	0.0143	0.00952	<0.00201	0.00201	<0.00495	0.00495	<0.00637	0.00637
Total BTEX		0.00465	0.00150	0.00685	0.00152	0.0143	0.00714	<0.00151	0.00151	<0.00371	0.00371	<0.00478	0.00478
Inorganic Anions by EPA 300/300.1	*Extracted:*			Dec-23-16 15:00						Dec-23-16 15:00			
	Analyzed:			Dec-23-16 16:23						Dec-23-16 16:30			
	Units/RL:			mg/kg	RL					mg/kg	RL		
Chloride				168	5.00					26.6	5.00		
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-17-16 17:36		Dec-17-16 18:10		Dec-17-16 18:43		Dec-17-16 19:16		Dec-17-16 19:47		Dec-17-16 20:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		<24.9	24.9	2520	25.0	34.1	25.0	50.3	25.0	68.2	25.0	25.8	25.0
C28-C35 Oil Range Hydrocarbons		<24.9	24.9	260	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0	<25.0	25.0
Total TPH 1005		<24.9	24.9	2780	25.0	34.1	25.0	50.3	25.0	68.2	25.0	25.8	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-031		541977-032		541977-033		541977-034		541977-035		541977-036	
	Field Id:	S-10 1'		S-11 0'		S-11 0.5'		S-11 1'		S-12 0'		S-12 0.5'	
	Depth:	1- ft		0- ft		0.5- ft		1- ft		0- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 11:24		Dec-09-16 12:00		Dec-09-16 12:02		Dec-09-16 12:04		Dec-09-16 12:20		Dec-09-16 12:22	
BTEX by EPA 8021B	*Extracted:*	Dec-16-16 15:50		Dec-16-16 15:50		Dec-15-16 15:00		Dec-15-16 17:55		Dec-16-16 15:50		Dec-15-16 15:00	
	Analyzed:	Dec-17-16 00:24		Dec-16-16 22:43		Dec-16-16 12:54		Dec-16-16 09:22		Dec-16-16 21:05		Dec-16-16 12:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00154	0.00154	<0.00694	0.00694	<0.00155	0.00155	<0.00149	0.00149	<0.00743	0.00743	<0.00466	0.00466
Toluene		<0.00205	0.00205	<0.00926	0.00926	<0.00207	0.00207	<0.00198	0.00198	<0.00990	0.00990	<0.00621	0.00621
Ethylbenzene		<0.00205	0.00205	<0.00926	0.00926	<0.00207	0.00207	<0.00198	0.00198	<0.00990	0.00990	0.00845	0.00621
m_p-Xylenes		<0.00205	0.00205	<0.00926	0.00926	<0.00207	0.00207	<0.00198	0.00198	<0.00990	0.00990	0.0120	0.00621
o-Xylene		<0.00307	0.00307	<0.0139	0.0139	<0.00310	0.00310	<0.00298	0.00298	<0.0149	0.0149	0.0138	0.00932
Total Xylenes		<0.00205	0.00205	<0.00926	0.00926	<0.00207	0.00207	<0.00198	0.00198	<0.00990	0.00990	0.0258	0.00621
Total BTEX		<0.00154	0.00154	<0.00694	0.00694	<0.00155	0.00155	<0.00149	0.00149	<0.00743	0.00743	0.0343	0.00466
Inorganic Anions by EPA 300/300.1	*Extracted:*			Dec-23-16 15:00						Dec-23-16 15:00			
	Analyzed:			Dec-23-16 16:37						Dec-23-16 16:44			
	Units/RL:			mg/kg	RL					mg/kg	RL		
Chloride				5.06	5.00					10.4	5.00		
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00	
	Analyzed:	Dec-17-16 21:20		Dec-17-16 21:49		Dec-17-16 22:19		Dec-17-16 22:48		Dec-17-16 23:17		Dec-17-16 23:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		26.0	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
C28-C35 Oil Range Hydrocarbons		<24.9	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
Total TPH 1005		26.0	24.9	<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-037		541977-038		541977-039		541977-040		541977-041		541977-042	
	Field Id:	S-12 1'		S-13 0'		S-13 0.5'		S-13 1'		S-14 0'		S-14 0.5'	
	Depth:	1- ft		0- ft		0.5- ft		1- ft		0- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 12:24		Dec-09-16 12:50		Dec-09-16 12:52		Dec-09-16 12:54		Dec-09-16 13:00		Dec-09-16 13:02	
BTEX by EPA 8021B	*Extracted:*	Dec-16-16 15:50		Dec-19-16 09:00		Dec-16-16 15:50		Dec-19-16 09:00		Dec-13-16 12:00		Dec-19-16 09:00	
	Analyzed:	Dec-17-16 01:31		Dec-19-16 12:53		Dec-16-16 21:38		Dec-19-16 13:09		Dec-14-16 01:14		Dec-19-16 13:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00295	0.00295	0.0239	0.00714	<0.00305	0.00305	<0.00743	0.00743	<0.00151	0.00151	<0.00758	0.00758
Toluene		<0.00394	0.00394	0.0148	0.00952	<0.00407	0.00407	0.0184	0.00990	<0.00201	0.00201	<0.0101	0.0101
Ethylbenzene		<0.00394	0.00394	0.0738	0.00952	<0.00407	0.00407	<0.00990	0.00990	<0.00201	0.00201	<0.0101	0.0101
m_p-Xylenes		<0.00394	0.00394	0.0208	0.00952	<0.00407	0.00407	<0.00990	0.00990	<0.00201	0.00201	0.0179	0.0101
o-Xylene		0.00677	0.00591	0.0364	0.0143	<0.00610	0.00610	<0.0149	0.0149	<0.00301	0.00301	<0.0152	0.0152
Total Xylenes		0.00677	0.00394	0.0572	0.00952	<0.00407	0.00407	<0.00990	0.00990	<0.00201	0.00201	0.0179	0.0101
Total BTEX		0.00677	0.00295	0.170	0.00714	<0.00305	0.00305	0.0184	0.00743	<0.00151	0.00151	0.0179	0.00758
Inorganic Anions by EPA 300/300.1	*Extracted:*			Dec-23-16 15:00						Dec-23-16 15:00			
	Analyzed:			Dec-23-16 16:51						Dec-23-16 16:58			
	Units/RL:			mg/kg	RL					mg/kg	RL		
Chloride				74.1	5.00					20.1	5.00		
TPH by Texas1005	*Extracted:*	Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 17:00		Dec-16-16 19:00		Dec-16-16 19:00	
	Analyzed:	Dec-18-16 00:14		Dec-18-16 00:42		Dec-18-16 01:10		Dec-18-16 01:37		Dec-18-16 04:46		Dec-18-16 05:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<24.9	24.9	<24.9	24.9	<24.9	24.9	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		<25.0	25.0	285	25.0	38.1	24.9	<24.9	24.9	41.6	24.9	<25.0	25.0
C28-C35 Oil Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<24.9	24.9	<24.9	24.9	<24.9	24.9	<25.0	25.0
Total TPH 1005		<25.0	25.0	285	25.0	38.1	24.9	<24.9	24.9	41.6	24.9	<25.0	25.0

Kelsey Brooks
Project Manager

Certificate of Analysis Summary 541977

Talon LPE, Artesia, NM

Project Name: Nash Draw 6" Poly

Project Id:
Contact: Sheldon Hitckcock
Project Location: 32.26353, -103.91030

Date Received in Lab: Tue Dec-13-16 10:32 am
Report Date: 29-DEC-16
Project Manager: Kelsey Brooks

Analysis Requested	*Lab Id:*	541977-043		541977-044		541977-045		541977-046		541977-047	
	Field Id:	S-14 1'		S-15 0'		S-15 0.5'		S-15 1'		BG-1	
	Depth:	1- ft		0- ft		0.5- ft		1- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-09-16 13:04		Dec-09-16 13:20		Dec-09-16 13:22		Dec-09-16 13:24		Dec-09-16 14:30	
BTEX by EPA 8021B	*Extracted:*	Dec-19-16 09:00		Dec-16-16 15:50		Dec-13-16 12:00		Dec-19-16 09:00		Dec-13-16 12:00	
	Analyzed:	Dec-19-16 13:42		Dec-16-16 20:48		Dec-14-16 02:19		Dec-19-16 13:59		Dec-14-16 02:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00750	0.00750	<0.00714	0.00714	<0.00147	0.00147	<0.00735	0.00735	<0.00150	0.00150
Toluene		<0.0100	0.0100	<0.00952	0.00952	<0.00196	0.00196	<0.00980	0.00980	<0.00200	0.00200
Ethylbenzene		<0.0100	0.0100	<0.00952	0.00952	<0.00196	0.00196	<0.00980	0.00980	<0.00200	0.00200
m_p-Xylenes		<0.0100	0.0100	<0.00952	0.00952	<0.00196	0.00196	<0.00980	0.00980	<0.00200	0.00200
o-Xylene		0.0184	0.0150	<0.0143	0.0143	<0.00295	0.00295	<0.0147	0.0147	<0.00299	0.00299
Total Xylenes		0.0184	0.0100	<0.00952	0.00952	<0.00196	0.00196	<0.00980	0.00980	<0.00200	0.00200
Total BTEX		0.0184	0.00750	<0.00714	0.00714	<0.00147	0.00147	<0.00735	0.00735	<0.00150	0.00150
Inorganic Anions by EPA 300/300.1	*Extracted:*			Dec-23-16 15:00						Dec-23-16 15:00	
	Analyzed:			Dec-23-16 17:05						Dec-23-16 17:12	
	Units/RL:			mg/kg	RL					mg/kg	RL
Chloride				9.51	5.00					8.66	5.00
TPH by Texas1005	*Extracted:*	Dec-16-16 19:00		Dec-16-16 19:00		Dec-16-16 19:00		Dec-16-16 19:00		Dec-16-16 19:00	
	Analyzed:	Dec-18-16 05:39		Dec-18-16 06:05		Dec-18-16 06:30		Dec-18-16 06:56		Dec-19-16 08:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
C12-C28 Diesel Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
C28-C35 Oil Range Hydrocarbons		<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0
Total TPH 1005		<25.0	25.0	<25.0	25.0	<25.0	25.0	<24.9	24.9	<25.0	25.0

Kelsey Brooks
Project Manager

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

\+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005694 **Sample:** 541977-041 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 01:14

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0271	0.0300	90	80-120	

Lab Batch #: 3005694 **Sample:** 541977-045 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 02:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 3005694 **Sample:** 541977-047 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 02:51

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 3005694 **Sample:** 541977-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 08:46

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 3005694 **Sample:** 541977-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 09:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005694 **Sample:** 541977-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 10:07

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

Lab Batch #: 3005694 **Sample:** 541977-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 10:48

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0261	0.0300	87	80-120	
4-Bromofluorobenzene	0.0248	0.0300	83	80-120	

Lab Batch #: 3005694 **Sample:** 541977-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 11:20

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 3005680 **Sample:** 541977-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 14:15

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 3005680 **Sample:** 541977-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 18:35

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005680 **Sample:** 541977-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 19:40

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 3005680 **Sample:** 541977-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 19:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0262	0.0300	87	80-120	

Lab Batch #: 3005791 **Sample:** 541977-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 09:22

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 3005887 **Sample:** 541977-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 12:21

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0294	0.0300	98	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 3005887 **Sample:** 541977-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 12:38

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0274	0.0300	91	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005887 **Sample:** 541977-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 12:54

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0261	0.0300	87	80-120	

Lab Batch #: 3005887 **Sample:** 541977-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 14:00

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0255	0.0300	85	80-120	

Lab Batch #: 3005887 **Sample:** 541977-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 14:17

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

Lab Batch #: 3005887 **Sample:** 541977-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 14:50

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0246	0.0300	82	80-120	

Lab Batch #: 3005887 **Sample:** 541977-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 15:39

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005887 **Sample:** 541977-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 16:41

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	80-120	
4-Bromofluorobenzene	0.0253	0.0300	84	80-120	

Lab Batch #: 3005887 **Sample:** 541977-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 16:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 3005887 **Sample:** 541977-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 17:13

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 3005887 **Sample:** 541977-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 17:30

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	80-120	
4-Bromofluorobenzene	0.0269	0.0300	90	80-120	

Lab Batch #: 3005887 **Sample:** 541977-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 18:03

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005887 **Sample:** 541977-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 18:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 3005888 **Sample:** 541977-044 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 20:48

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 3005888 **Sample:** 541977-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 21:05

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0291	0.0300	97	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 3005888 **Sample:** 541977-039 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 21:38

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 3005888 **Sample:** 541977-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 22:43

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005888 **Sample:** 541977-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 00:07

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

Lab Batch #: 3005888 **Sample:** 541977-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 00:24

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0272	0.0300	91	80-120	

Lab Batch #: 3005888 **Sample:** 541977-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 00:41

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 3006009 **Sample:** 541977-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 00:42

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.8	123	70-135	
o-Terphenyl	50.6	49.9	101	70-130	

Lab Batch #: 3005888 **Sample:** 541977-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 00:58

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0259	0.0300	86	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005888 **Sample:** 541977-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 01:14

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 3006009 **Sample:** 541977-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 01:15

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	53.7	49.9	108	70-130	

Lab Batch #: 3005888 **Sample:** 541977-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 01:31

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0303	0.0300	101	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 3006009 **Sample:** 541977-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 01:48

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.3	99.8	84	70-135	
o-Terphenyl	40.6	49.9	81	70-130	

Lab Batch #: 3006009 **Sample:** 541977-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 02:21

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.2	99.8	93	70-135	
o-Terphenyl	46.1	49.9	92	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005888 **Sample:** 541977-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 02:22

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0270	0.0300	90	80-120	

Lab Batch #: 3005888 **Sample:** 541977-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 02:39

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Lab Batch #: 3006009 **Sample:** 541977-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 02:54

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.6	100	96	70-135	
o-Terphenyl	55.4	50.0	111	70-130	

Lab Batch #: 3006009 **Sample:** 541977-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 03:28

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.8	91	70-135	
o-Terphenyl	44.8	49.9	90	70-130	

Lab Batch #: 3006009 **Sample:** 541977-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 04:02

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.5	99.9	87	70-135	
o-Terphenyl	42.5	50.0	85	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006009 **Sample:** 541977-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 04:36

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	99.9	93	70-135	
o-Terphenyl	45.5	50.0	91	70-130	

Lab Batch #: 3006009 **Sample:** 541977-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 05:11

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.6	99.7	99	70-135	
o-Terphenyl	49.2	49.9	99	70-130	

Lab Batch #: 3006009 **Sample:** 541977-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 05:45

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.9	99.6	86	70-135	
o-Terphenyl	42.2	49.8	85	70-130	

Lab Batch #: 3006009 **Sample:** 541977-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 06:56

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	99.7	85	70-135	
o-Terphenyl	42.0	49.9	84	70-130	

Lab Batch #: 3006009 **Sample:** 541977-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 07:31

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	99.9	86	70-135	
o-Terphenyl	42.9	50.0	86	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006009 **Sample:** 541977-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 08:38

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.9	91	70-135	
o-Terphenyl	45.0	50.0	90	70-130	

Lab Batch #: 3006009 **Sample:** 541977-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 09:10

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	99.7	90	70-135	
o-Terphenyl	43.8	49.9	88	70-130	

Lab Batch #: 3006009 **Sample:** 541977-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 09:42

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.2	99.8	98	70-135	
o-Terphenyl	48.4	49.9	97	70-130	

Lab Batch #: 3006009 **Sample:** 541977-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 10:45

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.1	99.8	83	70-135	
o-Terphenyl	39.7	49.9	80	70-130	

Lab Batch #: 3006009 **Sample:** 541977-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 11:21

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.0	99.8	84	70-135	
o-Terphenyl	41.7	49.9	84	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006009 **Sample:** 541977-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 11:58

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.2	100	87	70-135	
o-Terphenyl	42.5	50.0	85	70-130	

Lab Batch #: 3006013 **Sample:** 541977-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 15:26

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	99.9	93	70-135	
o-Terphenyl	45.9	50.0	92	70-130	

Lab Batch #: 3006013 **Sample:** 541977-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 15:56

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	99.9	94	70-135	
o-Terphenyl	46.7	50.0	93	70-130	

Lab Batch #: 3006013 **Sample:** 541977-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 16:26

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.7	100	70-135	
o-Terphenyl	49.9	49.9	100	70-130	

Lab Batch #: 3006013 **Sample:** 541977-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 17:02

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.6	99.8	94	70-135	
o-Terphenyl	47.7	49.9	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 541977-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 17:36

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.1	99.7	89	70-135	
o-Terphenyl	44.3	49.9	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 18:10

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.5	99.8	89	70-135	
o-Terphenyl	44.5	49.9	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 18:43

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.2	99.8	93	70-135	
o-Terphenyl	47.0	49.9	94	70-130	

Lab Batch #: 3006013 **Sample:** 541977-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 19:16

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.4	99.8	88	70-135	
o-Terphenyl	43.5	49.9	87	70-130	

Lab Batch #: 3006013 **Sample:** 541977-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 19:47

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.4	100	88	70-135	
o-Terphenyl	44.6	50.0	89	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 541977-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 20:18

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.3	99.9	89	70-135	
o-Terphenyl	45.5	50.0	91	70-130	

Lab Batch #: 3006013 **Sample:** 541977-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 21:20

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.6	99.7	91	70-135	
o-Terphenyl	45.2	49.9	91	70-130	

Lab Batch #: 3006013 **Sample:** 541977-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 21:49

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.6	99.8	94	70-135	
o-Terphenyl	46.0	49.9	92	70-130	

Lab Batch #: 3006013 **Sample:** 541977-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 22:19

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	100	89	70-135	
o-Terphenyl	41.0	50.0	82	70-130	

Lab Batch #: 3006013 **Sample:** 541977-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 22:48

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	45.2	50.0	90	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 541977-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 23:17

SURROGATE RECOVERY STUDY					
TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.2	99.7	90	70-135	
o-Terphenyl	44.4	49.9	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 23:45

SURROGATE RECOVERY STUDY					
TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	99.9	91	70-135	
o-Terphenyl	44.6	50.0	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 00:14

SURROGATE RECOVERY STUDY					
TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.8	99.9	91	70-135	
o-Terphenyl	44.4	50.0	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 00:42

SURROGATE RECOVERY STUDY					
TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99.8	91	70-135	
o-Terphenyl	44.6	49.9	89	70-130	

Lab Batch #: 3006013 **Sample:** 541977-039 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 01:10

SURROGATE RECOVERY STUDY					
TPH by Texas1005 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	99.6	92	70-135	
o-Terphenyl	45.6	49.8	92	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 541977-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 01:37

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	99.7	90	70-135	
o-Terphenyl	44.0	49.9	88	70-130	

Lab Batch #: 3005943 **Sample:** 541977-041 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 04:46

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.4	99.7	95	70-135	
o-Terphenyl	46.7	49.9	94	70-130	

Lab Batch #: 3005943 **Sample:** 541977-042 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 05:12

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.0	99.8	90	70-135	
o-Terphenyl	44.2	49.9	89	70-130	

Lab Batch #: 3005943 **Sample:** 541977-043 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 05:39

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	99.8	91	70-135	
o-Terphenyl	44.0	49.9	88	70-130	

Lab Batch #: 3005943 **Sample:** 541977-044 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 06:05

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	100	91	70-135	
o-Terphenyl	44.6	50.0	89	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005943 **Sample:** 541977-045 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 06:30

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	99.9	93	70-135	
o-Terphenyl	46.2	50.0	92	70-130	

Lab Batch #: 3005943 **Sample:** 541977-046 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 06:56

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.0	99.7	87	70-135	
o-Terphenyl	43.0	49.9	86	70-130	

Lab Batch #: 3005943 **Sample:** 541977-047 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 08:45

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.8	100	70-135	
o-Terphenyl	48.5	49.9	97	70-130	

Lab Batch #: 3006009 **Sample:** 541977-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 10:21

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.2	100	73	70-135	
o-Terphenyl	41.4	50.0	83	70-130	

Lab Batch #: 3006009 **Sample:** 541977-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 10:47

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.9	109	70-135	
o-Terphenyl	43.4	50.0	87	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006007 **Sample:** 541977-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 12:20

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 3006007 **Sample:** 541977-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 12:36

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0254	0.0300	85	80-120	

Lab Batch #: 3006007 **Sample:** 541977-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 12:53

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0245	0.0300	82	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

Lab Batch #: 3006007 **Sample:** 541977-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 13:09

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0352	0.0300	117	80-120	

Lab Batch #: 3006007 **Sample:** 541977-042 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 13:26

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0296	0.0300	99	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006007 **Sample:** 541977-043 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 13:42

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 3006007 **Sample:** 541977-046 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 13:59

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0244	0.0300	81	80-120	

Lab Batch #: 3006007 **Sample:** 541977-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 14:50

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0178	0.0300	59	80-120	**
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 3006007 **Sample:** 541977-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 15:28

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0257	0.0300	86	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 3005694 **Sample:** 717283-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/14/16 00:42

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005680 **Sample:** 717274-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/14/16 13:47

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 3005791 **Sample:** 717313-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 03:40

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 3005887 **Sample:** 717343-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 12:05

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 3005888 **Sample:** 717409-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 20:31

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 3006009 **Sample:** 717496-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 23:03

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.5	100	100	70-135	
o-Terphenyl	50.3	50.0	101	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 717497-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/17/16 13:45

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	52.2	50.0	104	70-130	

Lab Batch #: 3005943 **Sample:** 717458-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/16 03:26

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	51.9	50.0	104	70-130	

Lab Batch #: 3006007 **Sample:** 717453-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/16 11:14

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0280	0.0300	93	80-120	

Lab Batch #: 3005694 **Sample:** 717283-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/13/16 23:22

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 3005680 **Sample:** 717274-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/14/16 12:26

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005791 **Sample:** 717313-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 02:20

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 3005887 **Sample:** 717343-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 10:27

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

Lab Batch #: 3005888 **Sample:** 717409-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 19:09

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

Lab Batch #: 3006009 **Sample:** 717496-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 23:36

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	56.0	50.0	112	70-130	

Lab Batch #: 3005943 **Sample:** 717458-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/16 03:53

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	60.0	50.0	120	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 717497-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/16 07:56

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	59.8	50.0	120	70-130	

Lab Batch #: 3006007 **Sample:** 717453-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/16 09:52

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 3005694 **Sample:** 717283-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/13/16 23:38

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 3005680 **Sample:** 717274-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/14/16 12:42

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 3005791 **Sample:** 717313-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 02:36

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005887 **Sample:** 717343-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 10:44

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 3005888 **Sample:** 717409-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/16/16 19:25

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 3006013 **Sample:** 717497-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/17/16 14:57

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	59.5	50.0	119	70-130	

Lab Batch #: 3005943 **Sample:** 717458-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/16 04:19

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	56.8	50.0	114	70-130	

Lab Batch #: 3006009 **Sample:** 717496-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/16 08:20

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	47.7	50.0	95	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006007 **Sample:** 717453-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/16 10:08

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0355	0.0300	118	80-120	
4-Bromofluorobenzene	0.0347	0.0300	116	80-120	

Lab Batch #: 3005694 **Sample:** 541909-003 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 11:37

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 3005680 **Sample:** 541977-020 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 12:58

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 3005791 **Sample:** 542280-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 02:52

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0360	0.0300	120	80-120	

Lab Batch #: 3005887 **Sample:** 541977-017 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 11:00

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0389	0.0300	130	80-120	**
4-Bromofluorobenzene	0.0418	0.0300	139	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005888 **Sample:** 541977-044 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 19:42

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 3006009 **Sample:** 541977-020 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 12:35

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	99.9	93	70-135	
o-Terphenyl	41.4	50.0	83	70-130	

Lab Batch #: 3006013 **Sample:** 541977-040 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 02:04

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.8	92	70-135	
o-Terphenyl	40.5	49.9	81	70-130	

Lab Batch #: 3005943 **Sample:** 541977-047 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 09:11

TPH by Texas1005	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	40.9	50.0	82	70-130	

Lab Batch #: 3006007 **Sample:** 542089-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 10:25

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3005680 **Sample:** 541977-020 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/14/16 13:15

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 3005791 **Sample:** 542280-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 03:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0361	0.0300	120	80-120	
4-Bromofluorobenzene	0.0342	0.0300	114	80-120	

Lab Batch #: 3005887 **Sample:** 541977-017 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 11:27

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 3005888 **Sample:** 541977-044 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/16/16 19:58

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0294	0.0300	98	80-120	

Lab Batch #: 3006009 **Sample:** 541977-020 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/17/16 13:12

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	99.9	92	70-135	
o-Terphenyl	39.9	50.0	80	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Nash Draw 6" Poly

Work Orders : 541977,

Project ID:

Lab Batch #: 3006013 **Sample:** 541977-040 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 02:32

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.7	99.8	90	70-135	
o-Terphenyl	39.4	49.9	79	70-130	

Lab Batch #: 3005943 **Sample:** 541977-047 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/16 08:13

TPH by Texas1005 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.6	99.9	96	70-135	
o-Terphenyl	41.3	50.0	83	70-130	

Lab Batch #: 3006007 **Sample:** 542089-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/16 10:41

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

BS / BSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977 **Project ID:**

Analyst: ALJ **Date Prepared:** 12/14/2016 **Date Analyzed:** 12/14/2016

Lab Batch ID: 3005680 **Sample:** 717274-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00151	0.101	0.0835	83	0.101	0.0871	86	4	70-130	35	
Toluene	<0.00201	0.101	0.0776	77	0.101	0.0811	80	4	70-130	35	
Ethylbenzene	<0.00201	0.101	0.0839	83	0.101	0.0880	87	5	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.169	84	0.202	0.178	88	5	70-135	35	
o-Xylene	<0.00302	0.101	0.0844	84	0.101	0.0879	87	4	71-133	35	

Analyst: ALJ **Date Prepared:** 12/13/2016 **Date Analyzed:** 12/13/2016

Lab Batch ID: 3005694 **Sample:** 717283-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.0998	0.0733	73	0.0994	0.0785	79	7	70-130	35	
Toluene	<0.00200	0.0998	0.0699	70	0.0994	0.0737	74	5	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0756	76	0.0994	0.0826	83	9	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.152	76	0.199	0.166	83	9	70-135	35	
o-Xylene	<0.00299	0.0998	0.0765	77	0.0994	0.0856	86	11	71-133	35	

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

BS / BSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977 **Project ID:**

Analyst: ALJ **Date Prepared:** 12/15/2016 **Date Analyzed:** 12/16/2016

Lab Batch ID: 3005791 **Sample:** 717313-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00151	0.100	0.0887	89	0.100	0.0778	78	13	70-130	35	
Toluene	<0.00201	0.100	0.0833	83	0.100	0.0724	72	14	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0897	90	0.100	0.0794	79	12	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.180	90	0.200	0.159	80	12	70-135	35	
o-Xylene	<0.00301	0.100	0.0912	91	0.100	0.0797	80	13	71-133	35	

Analyst: ALJ **Date Prepared:** 12/15/2016 **Date Analyzed:** 12/16/2016

Lab Batch ID: 3005887 **Sample:** 717343-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.0998	0.0851	85	0.100	0.0817	82	4	70-130	35	
Toluene	<0.00200	0.0998	0.0812	81	0.100	0.0776	78	5	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0882	88	0.100	0.0853	85	3	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.178	89	0.200	0.172	86	3	70-135	35	
o-Xylene	<0.00299	0.0998	0.0891	89	0.100	0.0860	86	4	71-133	35	

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

BS / BSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977 **Project ID:**

Analyst: ALJ **Date Prepared:** 12/16/2016 **Date Analyzed:** 12/16/2016

Lab Batch ID: 3005888 **Sample:** 717409-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.0748	75	0.0988	0.0786	80	5	70-130	35	
Toluene	<0.00200	0.100	0.0707	71	0.0988	0.0760	77	7	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0756	76	0.0988	0.0824	83	9	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.151	76	0.198	0.164	83	8	70-135	35	
o-Xylene	<0.00301	0.100	0.0758	76	0.0988	0.0822	83	8	71-133	35	

Analyst: ALJ **Date Prepared:** 12/19/2016 **Date Analyzed:** 12/19/2016

Lab Batch ID: 3006007 **Sample:** 717453-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00151	0.100	0.0772	77	0.0994	0.0866	87	11	70-130	35	
Toluene	<0.00201	0.100	0.0713	71	0.0994	0.0828	83	15	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0807	81	0.0994	0.0891	90	10	71-129	35	
m_p-Xylenes	<0.00201	0.201	0.163	81	0.199	0.177	89	8	70-135	35	
o-Xylene	<0.00301	0.100	0.0953	95	0.0994	0.0901	91	6	71-133	35	

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

BS / BSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977 **Project ID:**

Analyst: MNR **Date Prepared:** 12/23/2016 **Date Analyzed:** 12/23/2016

Lab Batch ID: 3006371 **Sample:** 717668-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	249	100	250	250	100	0	90-110	20	

Analyst: MNR **Date Prepared:** 12/23/2016 **Date Analyzed:** 12/23/2016

Lab Batch ID: 3006374 **Sample:** 717689-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	244	98	250	250	100	2	90-110	20	

Analyst: MNR **Date Prepared:** 12/27/2016 **Date Analyzed:** 12/27/2016

Lab Batch ID: 3006517 **Sample:** 717741-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	247	99	250	255	102	3	90-110	20	

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

BS / BSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977 **Project ID:**

Analyst: ARM **Date Prepared:** 12/16/2016 **Date Analyzed:** 12/18/2016

Lab Batch ID: 3005943 **Sample:** 717458-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	1000	996	100	1000	971	97	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<25.0	1000	1100	110	1000	1100	110	0	70-135	35	

Analyst: ARM **Date Prepared:** 12/16/2016 **Date Analyzed:** 12/16/2016

Lab Batch ID: 3006009 **Sample:** 717496-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	1000	943	94	1000	857	86	10	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<25.0	1000	1030	103	1000	973	97	6	70-135	35	

Analyst: ARM **Date Prepared:** 12/16/2016 **Date Analyzed:** 12/19/2016

Lab Batch ID: 3006013 **Sample:** 717497-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	1000	1020	102	1000	952	95	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<25.0	1000	1040	104	1000	959	96	8	70-135	35	

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

Form 3 - MS Recoveries

Project Name: Nash Draw 6" Poly

Work Order #: 541977

Lab Batch #: 3005694

Project ID:

Date Analyzed: 12/14/2016 **Date Prepared:** 12/13/2016 **Analyst:** ALJ

QC- Sample ID: 541909-003 S **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX / MATRIX SPIKE RECOVERY STUDY					
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Benzene	<0.00151	0.100	0.0728	73	70-130	
Toluene	<0.00201	0.100	0.0728	73	70-130	
Ethylbenzene	<0.00201	0.100	0.0582	58	71-129	X
m_p-Xylenes	<0.00201	0.201	0.171	85	70-135	
o-Xylene	<0.00301	0.100	0.0864	86	71-133	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3005680 **QC- Sample ID:** 541977-020 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/14/2016 **Date Prepared:** 12/14/2016 **Analyst:** ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00150	0.100	0.0827	83	0.102	0.0785	77	5	70-130	35	
Toluene	0.00222	0.100	0.0771	75	0.102	0.0738	70	4	70-130	35	
Ethylbenzene	0.00911	0.100	0.0788	70	0.102	0.0748	64	5	71-129	35	X
m_p-Xylenes	0.0392	0.200	0.255	108	0.205	0.207	82	21	70-135	35	
o-Xylene	0.0165	0.100	0.118	102	0.102	0.0999	82	17	71-133	35	

Lab Batch ID: 3005791 **QC- Sample ID:** 542280-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/16/2016 **Date Prepared:** 12/15/2016 **Analyst:** ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00151	0.101	0.0729	72	0.102	0.0843	83	15	70-130	35	
Toluene	<0.00202	0.101	0.0706	70	0.102	0.0775	76	9	70-130	35	
Ethylbenzene	<0.00202	0.101	0.0723	72	0.102	0.0811	80	11	71-129	35	
m_p-Xylenes	<0.00202	0.202	0.146	72	0.204	0.161	79	10	70-135	35	
o-Xylene	<0.00302	0.101	0.0750	74	0.102	0.0812	80	8	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3005887 **QC- Sample ID:** 541977-017 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/16/2016 **Date Prepared:** 12/15/2016 **Analyst:** ALJ

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

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0517	1.99	2.46	121	2.02	1.98	95	22	70-130	35	
Toluene	2.29	1.99	4.90	131	2.02	3.90	80	23	70-130	35	X
Ethylbenzene	3.10	1.99	5.85	138	2.02	4.70	79	22	71-129	35	X
m_p-Xylenes	11.9	3.98	18.4	163	4.03	15.0	77	20	70-135	35	X
o-Xylene	4.93	1.99	7.99	154	2.02	6.95	100	14	71-133	35	X

Lab Batch ID: 3005888 **QC- Sample ID:** 541977-044 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/16/2016 **Date Prepared:** 12/16/2016 **Analyst:** ALJ

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

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00708	0.472	0.404	86	0.459	0.379	83	6	70-130	35	
Toluene	<0.00943	0.472	0.385	82	0.459	0.354	77	8	70-130	35	
Ethylbenzene	<0.00943	0.472	0.410	87	0.459	0.385	84	6	71-129	35	
m_p-Xylenes	<0.00943	0.943	0.811	86	0.917	0.769	84	5	70-135	35	
o-Xylene	<0.0142	0.472	0.411	87	0.459	0.392	85	5	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3006007 **QC- Sample ID:** 542089-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/19/2016 **Date Prepared:** 12/19/2016 **Analyst:** ALJ

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00191	0.127	0.0523	41	0.129	0.0676	52	26	70-130	35	X
Toluene	0.00285	0.127	0.0507	38	0.129	0.0649	48	25	70-130	35	X
Ethylbenzene	0.00771	0.127	0.0477	31	0.129	0.0637	43	29	71-129	35	X
m_p-Xylenes	0.00509	0.255	0.0940	35	0.257	0.128	48	31	70-135	35	X
o-Xylene	<0.00382	0.127	0.0504	40	0.129	0.0675	52	29	71-133	35	X

Lab Batch ID: 3006371 **QC- Sample ID:** 542510-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/23/2016 **Date Prepared:** 12/23/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	6.74	250	257	100	250	257	100	0	90-110	20	

Lab Batch ID: 3006371 **QC- Sample ID:** 542852-003 S **Batch #:** 1 **Matrix:** Solid

Date Analyzed: 12/23/2016 **Date Prepared:** 12/23/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3480	1250	4640	93	1250	4690	97	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3006374 **QC- Sample ID:** 541977-022 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/23/2016 **Date Prepared:** 12/23/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	239	96	250	235	94	2	90-110	20	

Lab Batch ID: 3006374 **QC- Sample ID:** 542600-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/23/2016 **Date Prepared:** 12/23/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	2170	1250	3290	90	1250	3310	91	1	90-110	20	

Lab Batch ID: 3006517 **QC- Sample ID:** 542184-061 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/27/2016 **Date Prepared:** 12/27/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4890	1250	6030	91	1250	6100	97	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3006517 **QC- Sample ID:** 542184-071 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/28/2016 **Date Prepared:** 12/27/2016 **Analyst:** MNR

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	12.8	250	276	105	250	289	110	5	90-110	20	

Lab Batch ID: 3005943 **QC- Sample ID:** 541977-047 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/19/2016 **Date Prepared:** 12/16/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	999	820	82	999	832	83	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<25.0	999	868	87	999	863	86	1	70-135	35	

Lab Batch ID: 3006009 **QC- Sample ID:** 541977-020 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/17/2016 **Date Prepared:** 12/16/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	999	817	82	999	881	88	8	70-135	35	
C12-C28 Diesel Range Hydrocarbons	120	999	920	80	999	1090	97	17	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Nash Draw 6" Poly

Work Order # : 541977 **Project ID:**

Lab Batch ID: 3006013 **QC- Sample ID:** 541977-040 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/18/2016 **Date Prepared:** 12/16/2016 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by Texas1005 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	998	815	82	998	844	85	3	70-135	35	
C12-C28 Diesel Range Hydrocarbons	<25.0	998	862	86	998	841	84	2	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE

Date/ Time Received: 12/13/2016 10:32:00 AM

Work Order #: 541977

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	Yes
#5 *Custody Seals intact on shipping container/ cooler?	Yes
#6 Custody Seals intact on sample bottles?	Yes
#7 *Custody Seals Signed and dated?	Yes
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	N/A
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Jessica Kramer Date: 12/13/2016
Jessica Kramer

Checklist reviewed by: Kelsey Brooks Date: 12/13/2016
Kelsey Brooks

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Page 1 Of 5

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Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

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Xenco Quote #

Xenco Job # 541977

Client / Reporting Information

Company Name / Branch: Talon/LPE - Artesia

Company Address: 408 W. Texas Ave. Artesia, NM 88210

Email: SHitchcock@talonlpc.com Phone No: 575-677-6199

Project Contact: Sheldon Hitchcock

Samplers's Name: S. Hitchcock

Project Information

Project Name/Number: Wash Draw 6" Poly

Project Location: 32.26353, -103.91030

Invoice To: Johnnie Bradford - ETP

PO Number:

Analytical Information

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	BTEX	Chlorides	Field Comments
1	S-10'	0'	12/9/16	10:00	S	1								X	X	X	X	
2	S-11'	1'		10:02	S	1								X	X	X	X	
3	S-12'	2'		10:04	S	1								X	X	X	X	
4	S-13'	3'		10:06	S	1								X	X	X	X	
5	S-20'	0		10:10	S	1								X	X	X	X	
6	S-21'	1'		10:12	S	1								X	X	X	X	
7	S-22'	2'		10:14	S	1								X	X	X	X	
8	S-23'	3'		10:16	S	1								X	X	X	X	
9	S-30'	0'		10:20	S	1								X	X	X	X	
10	S-31'	1'		10:22	S	1								X	X	X	X	

Notes: Stop Cl- if ≤ 250 mg/kg

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Sheldon Hitchcock	2:57 pm	1 Jessica Cox	2		2 Jessica Kramer 12.13.13 1037
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: X

Temp: IR ID:R-8
CF:+ 0.1 3.1
Corrected Temp: 3.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previc

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Page 79 of 85

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Page 2 Of 5

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Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

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Xenco Quote #

Xenco Job # 541977

Client / Reporting Information	Project Information
Company Name / Branch:	Project Name/Number: Nash Draw 6" Poly
Company Address:	Project Location:
Email: Phone No:	Invoice To:
Project Contact:	PO Number:
Samplers's Name:	

Analytical Information

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	TPH	BTEX	Cl Ionidas	Field Comments
1	S-32'	2'	12/9/16	10:24	S	1								X	X	X	X	
2	S-33'	3'		10:26	S	1								X	X	X	X	
3	S-40'	0'		10:30	S	1								X	X	X	X	
4	S-41'	1'		10:32	S	1								X	X	X	X	
5	S-42'	2'		10:34	S	1								X	X	X	X	
6	S-43'	3'		10:36	S	1								X	X	X	X	
7	S-50'	0'		10:40	S	1								X	X	X	X	
8	S-51'	1'		10:42	S	1								X	X	X	X	
9	S-52'	2'		10:44	S	1								X	X	X	X	
10	S-53'	3'		10:46	S	1								X	X	X	X	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [X] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level III Std QC+ Forms
- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG-411

Notes: Stop Cl- if > 250 mg/kg

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Shelby Allen	2:57 pm	1 Rebecca Ca	2		2 Deramer 12.13.13 1037
3	Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X

Temp: IR ID:R-8
CF:+ 0.1 3.1
Corrected Temp: 3.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previc

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Page 80 of 85

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Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

Xenco Quote #:
Xenco Job #: 541977

Client / Reporting Information		Project Information	
Company Name / Branch:		Project Name/Number:	Nash Draw 6" Poly
Company Address:		Project Location:	
Email:	Phone No:	Invoice To:	
Project Contact:		PO Number:	
Samplers's Name:			

Matrix Codes
A= Air
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil
WW= Waste Water

Collection columns: Sample Depth, Date, Time, Matrix, # of bottles. Number of preserved bottles columns: HCl, NaOH/Zn Acetate, HNO3, H2SO4, NaOH, NaHSO4, MEOH, NONE. Analytical Information columns: TPH, BTEX, Chlorides.

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH	BTEX	Chlorides	Field Comments
1	S-6 0'	0'	12/9/16	10:30	S	1								/	/	/	/	
2	S-7 0'	0'	(	10:35	S	1								/	/	/	/	
3	S-8 0'	0'		11:00	S	1								/	/	/	/	
4	S-8 0.5'	0.5'		11:02	S	1								/	/	/	/	
5	S-8 1'	1'		11:04	S	1								/	/	/	/	
6	S-9 0'	0'		11:10	S	1								/	/	/	/	
7	S-9 0.5'	0.5'		11:02	S	1								/	/	/	/	
8	S-9 1'	1'		11:04	S	1								/	/	/	/	
9	S-10 0'	0'		11:20	S	1								/	/	/	/	
10	S-10 0.5'	0.5'		11:22	S	1								/	/	/	/	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes: Stop Cl⁻ if ≤ 250 mg/kg

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Date Time:	Received By:		Date Time:	Received By:
Relinquished by Sampler: 1 Sheldon [illegible]	2:57pm	1 Dessauer [illegible] Co	Relinquished By: 2	Date Time:	2 [illegible] 10.13.16 1035
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice [x] Cooler Temp. Thermo Corr. Factor

Temp: IR ID:R-8
CF:+ 0.1 3.1
Corrected Temp: 3.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless...

CHAIN OF CUSTODY

Page 4 Of 5

XENCO LABORATORIES

Setting the Standard since 1990

Stafford,Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

www.xenco.com

Xenco Quote #

Xenco Job # 541977

Client / Reporting Information

Company Name / Branch:

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number: Nash Draw 6" Poly

Project Location:

Invoice To:

PO Number:

Analytical Information

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	TPH	BTEX	Chlorides	Field Comments
1	S-10 1'	1'	12/9/16	11:24	S	1								X	X	X	X	
2	S-11 0'	0'		12:00	S	1								X	X	X	X	
3	S-11 0.5'	0.5'		12:02	S	1								X	X	X	X	
4	S-11 1'	1'		12:04	S	1								X	X	X	X	
5	S-12 0'	0'		12:20	S	1								X	X	X	X	
6	S-12 0.5'	0.5'		12:22	S	1								X	X	X	X	
7	S-12 1'	1'		12:24	S	1								X	X	X	X	
8	S-13 0'	0'		12:50	S	1								X	X	X	X	
9	S-13 0.5'	0.5'		12:52	S	1								X	X	X	X	
10	S-13 1'	1'		12:54	S	1								X	X	X	X	

Turnaround Time (Business days)

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Notes: stop Cl if ≤ 250 mg/kg

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler: 1 Sheridan Reed	Date Time: 2:57pm	Received By: 1 Idesmia C.	Relinquished By: 2	Date Time:	Received By: 2 [illegible] 12.13.13 1032
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice ☒

Temp: IR ID:R-8
CF:+ 0.1 3.1 3.2
Corrected Temp:

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CHAIN OF CUSTODY

Page 5 Of 5

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www.xenco.com

Xenco Quote #

Xenco Job # 541977

Client / Reporting Information

Company Name / Branch:

Company Address:

Email: Phone No:

Project Contact:

Samplers's Name:

Project Information

Project Name/Number:

Project Location:

Invoice To:

PO Number:

Analytical Information

Matrix Codes

A= Air
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW= Waste Water
W = Wipe
O = Oil

WW= Waste Water

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	None	TPH	BTEX	Chlorides	Field Comments
1	S-14 0'	0	12/9/16	1:00	S	1									/	/	/	
2	S-14 0.5'	0.5		1:02	S	1									/	/	/	
3	S-14 1'	1'		1:04	S	1									/	/	/	
4	S-15 0'	0'		1:20	S	1									/	/	/	
5	S-15 0.5'	0.5'		1:22	S	1									/	/	/	
6	S-15 1'	1'		1:24	S	1											/	
7	BG-1	0'		2:30	S	1											/	
8																		
9																		
10																		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
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TAT Starts Day received by Lab, if received by 3:00 pm

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- [ ] Level II Std QC
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- [ ] Level 3 (CLP Forms)
- [ ] TRRP Checklist
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] TRRP Level IV
- [ ] UST / RG-411

Notes:

Stop CT if ≤ 250 mg/kg

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Sheldon Denn	2:57 pm	Devora C.	2		2
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: Y / N
			5			Co

Temp: IR ID:R-8
CF:+ 0.1
Corrected Temp: 3.2

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously

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Page 83 of 85


ORIGIN ID:HOBA
MAIL SERVICES ETC LLC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
TO XENCO LABORATORIES
XENCO LABORATORIES
1211 W FLORIDA AVE
MIDLAND TX 79701
(432) 563-1800
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 6606 3913 2051
TUE - 13 DEC 10:30A
PRIORITY OVERNIGHT
41 MAFA
79701
TX-US LBB
Part# 156148-434 RRD 04/13

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE

Date/ Time Received: 12/13/2016 10:32:00 AM

Work Order #: 541977

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.2
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	Yes
#5 *Custody Seals intact on shipping container/ cooler?	Yes
#6 Custody Seals intact on sample bottles?	Yes
#7 *Custody Seals Signed and dated?	Yes
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	N/A
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer
Jessica Kramer
Date: 12/13/2016

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks
Date: 12/13/2016