State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 1 of 124

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 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 Devon Energy Production Co LP (6137)	Contact Stephen Richards, Devo	n Completions Forema	an	
Address PO BOX 250, Artesia, NM 88211	Telephone No. (575) 252-3717			
Facility Name: Trionyx Frac Pond (Completing wells on the	Facility Type Oil			
Arabian 30-19 Fed Com 1H)				

Surface Owner: State	Mineral Owner: State	API No. 30-025-43176
Bullace Owner. Bute	Willer Owlier. Bute	111110.30 023 13170

LOCATION OF RELEASE

Unit Letter P	Section 2	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County EDDY

Latitude 32.154386 N Longitude 103.740605 W NAD83 NATURE OF RELEASE

	OF KELEADE	
Type of Release: Treated Produced Water	Volume of Release: 50 bbls	Volume Recovered: 40 bbls
Source of Release: Lay Flat Transfer Line	Date and Hour of Occurrence: 10/24/2017 @ 2:14 PM MS	Date and Hour of Discovery 10/24/2017 @ 2:14 PM MST
Was Immediate Notice Given?	If YES, To Whom? OCD: Olivia Yu	RECEIVED
By Whom? Mike Shoemaker, EHS Professional	Date and Hour: OCD: 10/25/17 @ 7:24 PM M	AST
Was a Watercourse Reached?	If YES, Volume Impacting the NA	e Watercourse.
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* A contract company was pigging the layflat line from the Arabian 30-19 F to their booster pump, after rigging up to pig from the booster pump to the	ed Com 1H to the Trionyx pond Trionyx pond there was some a	They had completed the line from the location ir in the line which caused the line to come out

to their booster pump, after rigging up to pig from the booster pump to the Trionyx pond there was some air in the line which caused the line to come out of the pond and allowed fluid to be release to the ground from the line. The contract company shut down operations and notified Devon personnel. Approximately 50bbls of produced water ran off the side of the pond onto the Trionxy facility. A vacuum truck was dispatched and recovered 40 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*

The spill affected approximately 25,000 square feet running South from the release point. Approximately 50 barrels of treated produced water was spilled and approximately 40 barrels were recovered. A remediation contractor will be contacted to assist with the delineation and remediation efforts.

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: Denise Menoud	OIL CONSERVATION DIVISION
Printed Name: Denise Menoud	Approved by Environmental Specialist:
Title: Admin Field Support	Approval Date: 11/17/2017 Expiration Date:
E-mail Address: denise.menoud@dvn.com	Conditions of Approval: Attached
Date: 10/30/2017 Phone: (575)746-5544	see attached directive
* Attach Additional Sneets II Necessary	1RP-4867

nOY1732133962

pOY1732135037

Released to Imaging: 9/20/2022 1:02:46 PM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _11/6/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4867_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _12/17/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Page 4 of 124



From:	Shoemaker, Mike
То:	Yu, Olivia, EMNRD
Cc:	Fulks, Brett
Subject:	Spill Notification for the Arabian 30-19 Fed Com 1H (API #30-025-43176)
Date:	Wednesday, October 25, 2017 7:24:28 PM
Attachments:	image001.png

Good Evening,

Devon had the following releases occur beginning at 2:14 PM MST on 10/24/17. The incident is described below.

- 1. Arabian 30-19 Fed Com 1H (API #30-025-43176)
 - a. A contract company was pigging the layflat line from the Arabian 30-19 Fed Com 1H to the Trionyx pond (Lat: 32.15486, Long: -103.74124). They had completed the line from the location to their booster pump, after rigging up to pig from the booster pump to the Trionyx pond there was some air in the line which caused the line to come out of the pond and allowed fluid to be release to the ground from the line. The contract company shut down operations and notified Devon personnel. Approximately 50bbls of produced water ran off the side of the pond onto the Trionxy facility. A vaccum truck was dispatched and recovered 40 bbls of produced water.

A C-141 will be prepared and submitted with GPS coordinates of the areas affected.

Thanks,

Mike Shoemaker EHS Representative

Devon Energy Corporation

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

Received by OCD: 12/10/2020 9:22:26 AM





March 20, 2018

Ms. Olivia Yu Environmental Specialist New Mexico Oil Conservation District District 1 – Hobbs 1625 N. French Drive Hobbs, New Mexico 88240

RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Dear Ms. Yu,

TETRA Technologies Inc. (TETRA), a contractor to Devon Energy Production Co, LP (6137) (Devon) wishes to submit this Proposed Delineation Workplan (Workplan) to the New Mexico Oil Conservation Division (NMOCD) to address the release at the Trionyx Frac Pond on October 24, 2017. The purpose of this Workplan is to describe proposed methodologies and activities to carry out the delineation to assess the horizontal and vertical extent of impact to soils at the release site. The legal description of the Release Site is Unit Letter "P", Section 2, Township 25 South, Range 31 East, in Eddy County, New Mexico. The site location is shown in Figure 1.

Background

On October 24 2017 at 2:14 PM MST, TETRA, under contract to Devon was pigging a line from the Arabian 30-19 Fed Com 1H to the Trionyx pond. TETRA had completed the line from the location to the booster pump. After rigging up to pig from the booster pump to the Trionyx pond, air in the line caused the line to come out of the pond and fluid was released to the ground. TETRA then shut down operations and notified Devon. Approximately 50bbls of produced water ran off the side of the pond onto the Trionxy facility. A vacuum truck was dispatched and recovered 40 bbls of treated produced water. The release affected approximately 25,000 square feet running south from the release point. The location of the release area is shown in Figure 2.

Soil Investigation

A sample of the treated produced water was taken from the Trionyx pond to determine the quality of the water released and to also ascertain what impacts may have occurred as a result of the release. The analytical results are provided in Table 1 below. Analytical reports from Cardinal Laboratories are attached to this Workplan.

24955 Interstate 45 North, The Woodlands, Texas 77380 281.364.5116

All results in mg/L	90 BBL COTTON DRAW WATER PIT
Benzene	0.823
Toluene	0.583
Ethylbenzene	0.033
Total xylenes	0.162
Total BTEX	1.60
Chloride	146000
GRO C6-C10	2.65
DRO > C10-C28	<1.00
EXT DRO > C28-C36	<1.00

Table 1 – Analytical results from Trionyx pond

As shown in Table 1, the levels found clearly show benzene, toluene, ethylbenzene and xylenes (BTEX) levels and total petroleum hydrocarbons (TPH) (GRO+DRO+MRO C6 thru C36) to be very low. TETRA would expect low TPH levels since the produced water had been treated prior to its use by TETRA. BTEX and TPH levels found are expected to have little or no impact to soils.

The results were also compared to the most restrictive NMOCD Site Classification criteria remediation levels, 10 mg/kg for benzene, 50 mg/kg for BTEX and 100 mg/kg for TPH. Results clearly indicate delineation of BTEX and TPH are not needed and therefore are not part of this delineation Workplan.

Chloride levels were found to be elevated and are part of this proposed delineation Workplan. Chloride remediation levels for the release site were determined to be 600 mg/kg, per discussions with NMOCD. This Workplan will focus on the delineation of chlorides and the horizontal and vertical impact to soils.

TETRA is currently screening contractors to perform the work required in this Workplan. TETRA proposes to delineate the release using either soil borings (with a hollow stem auger) or investigation trenches (using a backhoe). The method will be determined upon selection of a remediation contractor. Samples will be collected at the surface and at 1 to 2 foot intervals below ground surface (bgs) to assess the vertical extent of chloride impact. To assess the horizontal extent soil samples will be collected at sample points adjacent to the release point and at approximately twenty (20) foot intervals downgradient from the release point. Samples will be collected and field screened for chloride to assess the horizontal and vertical extent of impact to soils. Sampling will continue until chloride field screening indicate chloride concentrations do not exceed the recommended NMOCD regulatory guidelines of 600 mg/kg. Confirmation samples will be taken at the extent of the delineation to confirm field sampling results. Confirmation samples will be analyzed for chloride by EPA Method 300.0.

One (1) background soil sample will be collected from a non-impacted area approximately fifty (50) feet northeast of the release area.

Reporting

Upon receipt of the analytical results, a soil investigation report will be prepared by the TETRA contractor and submitted to the NMOCD for review and approval. If it is determined by NMOCD that remediation is required a Workplan for the remediation will be prepared and submitted to NMOCD for approval.

Should you have any questions or comments, please do not hesitate to contact me at 281-364-5116.

Sincerely,

Clifford Kirchof Environmental/Chemical Regulatory Compliance Manager

cc. Mike Shoemaker, Devon Adam Calvin, TETRA Delfino Escalante III, TETRA



Figure 1 – Site location with Lat/Long coordinates.



Figure 2: Area of Release at Trionyx Frac Pond – 50 bbls with 40 bbls recovered.



February 13, 2018

ANDREW ROMO TETRA TECHNOLOGIES 1114 S FM 1788 MIDLAND, TX 79765

RE: COTTON DRAW WATER PIT

Enclosed are the results of analyses for samples received by the laboratory on 02/12/18 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

TETRA TECHNOLOGIES ANDREW ROMO 1114 S FM 1788 MIDLAND TX, 79765 Fax To:

Received:	02/12/2018	Sampling Date:	02/12/2018
Reported:	02/13/2018	Sampling Type:	Wastewater
Project Name:	COTTON DRAW WATER PIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: 250 BBL COTTON DRAW WATER PIT (H800433-01)

BTEX 8021B	mg/	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.813	0.020	02/12/2018	ND	0.020	99.2	0.0200	0.733	
Toluene*	0.569	0.020	02/12/2018	ND	0.020	97.9	0.0200	1.35	
Ethylbenzene*	0.031	0.020	02/12/2018	ND	0.020	97.5	0.0200	2.48	
Total Xylenes*	0.154	0.060	02/12/2018	ND	0.061	102	0.0600	1.74	
Total BTEX	1.57	0.120	02/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 81.3-12	8						
Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	150000	4.00	02/12/2018	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	220000	5.00	02/13/2018	ND	209	98.1	213	2.38	
TPH 8015M	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2.27	1.00	02/12/2018	ND	37.4	74.8	50.0	0.837	
DRO >C10-C28*	<1.00	1.00	02/12/2018	ND	48.5	96.9	50.0	2.18	
EXT DRO >C28-C36	<1.00	1.00	02/12/2018	ND					
Surrogate: 1-Chlorooctane	70.5	% 37.1-13	8						
Surrogate: 1-Chlorooctadecane	90.7	% 44.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TETRA TECHNOLOGIES
ANDREW ROMO
1114 S FM 1788
MIDLAND TX, 79765
Fax To:

02/12/2018	Sampling Date:	02/12/2018
02/13/2018	Sampling Type:	Wastewater
COTTON DRAW WATER PIT	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
LOVINGTON, NM		
	02/12/2018 02/13/2018 COTTON DRAW WATER PIT NONE GIVEN LOVINGTON, NM	02/12/2018Sampling Date:02/13/2018Sampling Type:COTTON DRAW WATER PITSampling Condition:NONE GIVENSample Received By:LOVINGTON, NMSample Received By:

Sample ID: 90 BBL COTTON DRAW WATER PIT (H800433-02)

BTEX 8021B	mg/	′L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.823	0.020	02/12/2018	ND	0.020	99.2	0.0200	0.733	
Toluene*	0.583	0.020	02/12/2018	ND	0.020	97.9	0.0200	1.35	
Ethylbenzene*	0.033	0.020	02/12/2018	ND	0.020	97.5	0.0200	2.48	
Total Xylenes*	0.162	0.060	02/12/2018	ND	0.061	102	0.0600	1.74	
Total BTEX	1.60	0.120	02/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 81.3-12	8						
Chloride, SM4500CI-B	mg/	′L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	146000	4.00	02/12/2018	ND	104	104	100	3.92	
TDS 160.1	mg/	′L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	213000	5.00	02/13/2018	ND	209	98.1	213	2.38	
TPH 8015M	mg/	′L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2.65	1.00	02/12/2018	ND	37.4	74.8	50.0	0.837	
DRO >C10-C28*	<1.00	1.00	02/12/2018	ND	48.5	96.9	50.0	2.18	
EXT DRO >C28-C36	<1.00	1.00	02/12/2018	ND					
Surrogate: 1-Chlorooctane	75.0	% 37.1-13	8						
Surrogate: 1-Chlorooctadecane	78.7	% 44.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/10/2020 9:22:26 AM



Released to Imaging: 9/20/2022 1:02:46 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



From:	Yu, Olivia, EMNRD
То:	"Clifford Kirchof"
Cc:	Shoemaker, Mike; Adam Calvin; Delfino Escalante III; Andrew Romo; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Subject:	RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico
Date:	Thursday, April 12, 2018 10:09:00 AM

Good morning Mr. Kirchof:

Thank you for the primary document regarding 1RP-4867. Is this a template for whichever environmental consultancy will be awarded to conduct the release characterization/delineation?

Please be advised that several additional details are necessary for assessment:

- Depth to groundwater evaluation: use NMOSE, USGS, and other available databases.
- Distance to nearest waterbody and wellheads: topographic maps for a preliminary evaluation is available on NMOCD website: OCD GIS
- All maps and figures must be scaled appropriately to the size of the release. Impacted area must be outlined and proposed delineation sample points marked, in relation to the release point, based on site assessment of representative pooling spots.
- All laboratory analyses should have accompanying data from field tests. Tabulate data to facilitate review.
- Caliche 'impermeable' layer is not an acceptable rationale for incompletion of vertical delineation.

Please be advised that according to NMOCD database, this release occurred on State surface and mineral ownership. NMSLO can verify. All corresponding agencies must be included in all communications and submitted reports.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Clifford Kirchof <CKirchof@tetratec.com> Sent: Tuesday, March 20, 2018 1:56 PM To: Yu, Olivia, EMNRD < Olivia.Yu@state.nm.us>

Cc: Shoemaker, Mike <Mike.Shoemaker@dvn.com>; Adam Calvin <ACalvin@tetratec.com>; Delfino Escalante III <D3Escalante@tetratec.com>; Andrew Romo <aromo@tetratec.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Ms. Olivia Yu

TETRA Technologies Inc. (TETRA), a contractor to Devon Energy Production Co, LP (6137) (Devon) wishes to submit a Proposed Delineation Workplan (Workplan) to the New Mexico Oil Conservation Division (NMOCD) to address the release at the Trionyx Frac Pond on October 24, 2017 (Case No. 1RP-4867). Attached is the proposed Workplan for your review and comments.

I have also copied Mike Bratcher, NMOCD because a similar release occurred from the same water source in District 2 (2RP-4543). We have submitted a similar Workplan to Mr. Bratcher for that release.

Should you have any questions or comments, please do not hesitate to contact me at 281-364-5116.

Best regards, cliff

Clifford E Kirchof Environmental/Chemical Regulatory Compliance Manager

TETRA Technologies, Inc. 24955 Interstate 45 North The Woodlands, TX 77380 Office: 281-364-5116 Mobile: 832-434-0979 ckirchof@tetratec.com

Dedicated to the CØRE



From:	Clifford Kirchof
To:	Mann, Ryan; Yu, Olivia, EMNRD
Cc:	Shoemaker, Mike; Adam Calvin; Delfino Escalante III; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Patrick Windham
Subject:	RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico
Date:	Thursday, May 3, 2018 12:23:37 PM

Ryan,

Thank you for the approvals and comments. As an update, the request for proposal (RFP) has been sent to selected firms for bidding on the continued remediation work. We will most likely select a firm next week and move forward with addressing the comments from NMOCD. Your comments will be addressed in future documents and NMSLO will be copied on all further communication.

Best regards, cliff

From: Mann, Ryan <rmann@slo.state.nm.us>

Sent: Thursday, May 3, 2018 11:03 AM

To: 'Yu, Olivia, EMNRD' <Olivia.Yu@state.nm.us>; Clifford Kirchof <CKirchof@tetratec.com> Cc: Shoemaker, Mike <Mike.Shoemaker@dvn.com>; Adam Calvin <ACalvin@tetratec.com>; Delfino Escalante III <D3Escalante@tetratec.com>; Andrew Romo <aromo@tetratec.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us> Subject: RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

NMSLO approves of both of the proposed delineation plans pending concurrence by NMOCD. Also, any release which traveled off the pad and affected pasture areas will need to have a revegetation plan included when submitting the remediation work plan. 1RP-4867 appears to have remained on location, I cannot tell for 2RP-4543. Please include NMSLO in further communication regarding these releases or any others in which state resources are affected.

Thanks

Ryan Mann Remediation Specialist Field Operation Division (575) 392-3697 (505) 699-1989 New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Tuesday, May 1, 2018 3:37 PM
To: Clifford Kirchof <<u>CKirchof@tetratec.com</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>

Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>; Adam Calvin <<u>ACalvin@tetratec.com</u>>; Delfino Escalante III <<u>D3Escalante@tetratec.com</u>>; Andrew Romo <<u>aromo@tetratec.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Weaver, Crystal, EMNRD <<u>Crystal.Weaver@state.nm.us</u>> **Subject:** RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Mr. Kirchof:

Thank you for the update. Please remember to include NMSLO in all email communications and submittals. Please be advised that while the actual work may be conducted in tandem for 1RP-4867 and 2RP-4543, the proposed delineation plans must be approved by the respective Districts and NMSLO before commencement.

Thanks, Olivia

From: Clifford Kirchof < <u>CKirchof@tetratec.com</u>>

Sent: Tuesday, May 1, 2018 2:56 PM

To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>

Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>; Adam Calvin <<u>ACalvin@tetratec.com</u>>; Delfino Escalante III <<u>D3Escalante@tetratec.com</u>>; Andrew Romo <<u>aromo@tetratec.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Weaver, Crystal, EMNRD <<u>Crystal.Weaver@state.nm.us</u>> **Subject:** RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Ms. Yu

We are in the process of interviewing contractors to finalize the workplan and address your questions. If at all possible, TETRA would like to perform the fieldwork required at this site along with the other site under Mike Bratcher. The sites are close together and it would be more cost effective to perform the field work in one mobilization effort.

Please feel free to call if you would like to discuss. We hopefully will have a consultant selected next week to address your questions and move forward.

Best regards, cliff

From: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>

Sent: Thursday, April 12, 2018 11:10 AM

To: Clifford Kirchof <<u>CKirchof@tetratec.com</u>>

Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>; Adam Calvin <<u>ACalvin@tetratec.com</u>>; Delfino Escalante III <<u>D3Escalante@tetratec.com</u>>; Andrew Romo <<u>aromo@tetratec.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Weaver, Crystal, EMNRD <<u>Crystal.Weaver@state.nm.us</u>> **Subject:** RE: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Good morning Mr. Kirchof:

Thank you for the primary document regarding 1RP-4867. Is this a template for whichever environmental consultancy will be awarded to conduct the release characterization/delineation?

Please be advised that several additional details are necessary for assessment:

- Depth to groundwater evaluation: use NMOSE, USGS, and other available databases.
- Distance to nearest waterbody and wellheads: topographic maps for a preliminary evaluation is available on NMOCD website: OCD GIS
- All maps and figures must be scaled appropriately to the size of the release. Impacted area must be outlined and proposed delineation sample points marked, in relation to the release point, based on site assessment of representative pooling spots.
- All laboratory analyses should have accompanying data from field tests. Tabulate data to facilitate review.
- Caliche 'impermeable' layer is not an acceptable rationale for incompletion of vertical delineation.

Please be advised that according to NMOCD database, this release occurred on State surface and mineral ownership. NMSLO can verify. All corresponding agencies must be included in all communications and submitted reports.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Clifford Kirchof <<u>CKirchof@tetratec.com</u>>
Sent: Tuesday, March 20, 2018 1:56 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>; Adam Calvin <<u>ACalvin@tetratec.com</u>>; Delfino
Escalante III <<u>D3Escalante@tetratec.com</u>>; Andrew Romo <<u>aromo@tetratec.com</u>>; Bratcher, Mike,
EMNRD <<u>mike.bratcher@state.nm.us</u>>

Subject: 1RP-4867 - Submittal of Proposed WorkPlan for Soil Delineation at the Trionyx Frac Pond T-25-S, R-31-E, Eddy County, New Mexico

Ms. Olivia Yu

TETRA Technologies Inc. (TETRA), a contractor to Devon Energy Production Co, LP (6137) (Devon) wishes to submit a Proposed Delineation Workplan (Workplan) to the New Mexico Oil Conservation Division (NMOCD) to address the release at the Trionyx Frac Pond on October 24, 2017 (Case No. 1RP-4867). Attached is the proposed Workplan for your review and comments.

I have also copied Mike Bratcher, NMOCD because a similar release occurred from the same water source in District 2 (2RP-4543). We have submitted a similar Workplan to Mr. Bratcher for that release.

Should you have any questions or comments, please do not hesitate to contact me at 281-364-5116.

Best regards, cliff

Clifford E Kirchof Environmental/Chemical Regulatory Compliance Manager

TETRA Technologies, Inc. 24955 Interstate 45 North The Woodlands, TX 77380 Office: 281-364-5116 Mobile: 832-434-0979 ckirchof@tetratec.com

Dedicated to the CØRE



This email has been scanned by the Symantec Email Security.cloud service. For more information please visit <u>http://www.symanteccloud.com</u>

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit <u>http://www.symanteccloud.com</u>



APPROVED By Olivia Yu at 11:12 am, Aug 27, 2018

NMOCD approves of the proposed delineation plan for 1RP-4867.

July 30, 2018

Olivia Yu New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 N. Dal Paso St., Suite 117 Hobbs, New Mexico 88240

Re: Proposed Soil Delineation Workplan Trionyx Frac Pond (1R-4867)
GPS: N 32.154386° W 103.740605°
Unit Letter "P", Section 2, Township 25 South, Range 31 East, NMPM Eddy County, New Mexico

Dear Ms. Yu and Mr. Mann,

TRC Environmental Corporation (TRC), on behalf of TETRA Technologies, Inc. (TETRA) has prepared this Proposed Soil Delineation Workplan (Workplan) for the Trionyx Frac Pond Release Site (Site). The purpose of this Workplan is to propose delineation activities designed to prepare a Soil Delineation Summary and Proposed Remediation Workplan, which will advance the Site toward an NMOCD approved Site Closure Status. The legal description of the Release Site is Unit Letter "P", Section 2, Township 25 South, Range 31 East, NMPM in Eddy County, New Mexico. The GPS coordinates for the site are N 32.154386° W 103.740605°. The subject property is leased by Devon Energy Production Company, L.P. (Devon) and owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). A Site Location Map and Site Details and Proposed Trench Location Map are provided as Figure 1 and Figure 2, respectively.

On October 24, 2017, TETRA was pigging the "layflat" line from the Devon Arabian 30-19 Fed Com 1H well site to the Devon Trionyx Frac Pond. TETRA had completed pigging the line from the well site to a TETRA booster pump, while pigging from the TETRA booster pump to the Devon Trionyx Frac Pond air in the "layflat" line resulted in the "layflat" line falling out of the Trionyx Frac Pond, which resulted in fluid being released to the ground from the line. The release was contained on the location on the caliche pad. The release area reportedly measured approximately 2,100 square feet. During initial response activities, the pigging activities were suspended. Approximately fifty (50) barrels of treated produced water was released

from the "layflat" line and approximately forty (40) barrels of treated produced water was recovered utilizing a vacuum truck. On March 24, 2017, a Devon Representative notified the NMOCD of the Release and Devon submitted a Release Notification and Corrective Action (Form C-141) to the NMOCD on October 30, 2017. The Form C-141 is attached to this report.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) identified registered water wells in Section 2, Township 25 South, Range 31 East. The nearest water well (NMOSE File Number C-3830) is located approximately eight hundred (800) feet north of the reported location of the release. The Well Record and Log indicated a water bearing zone was identified at approximately three hundred forty-eight (348) feet below ground surface (bgs). A reference map utilized by the NMOCD Hobbs District Office indicates groundwater should be encountered at approximately three hundred seventy-five (375) feet bgs. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. Please reference the attached NMOSE data.

One water well (described above) was observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and 100 mg/kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be 600 mg/kg.

On February 12, 2018, a Representative of TETRA collected two (2) treated produced water samples (250 bbl Cotton Draw Water Pit and 90 bbl Cotton Draw Water Pit) which were representative of the treated produced water released at the subject release. The water samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for concentrations of TPH, BTEX, chloride, and total dissolved solids (TDS) by Method SW846-8015M, EPA Method 8021B, SM4500Cl-B, and EPA Method 160.1, respectively.

The analytical results indicated TPH concentrations ranged from 2.27 mg/L in water sample 250 bbl Cotton Draw Water Pit to 2.65 mg/L in water sample 50 bbl Cotton Draw Water Pit. Benzene concentrations ranged from 0.813 mg/L in water sample 250 bbl Cotton Draw Water Pit to 0.823 mg/L in water sample 50 bbl Cotton Draw Water Pit. Toluene concentrations ranged from 0.569 mg/L in water sample 250 bbl Cotton Draw Water Pit to 0.583 mg/L in water sample 50 bbl Cotton Draw Water Pit. Ethylbenzene concentrations ranged from 0.031 mg/L in water sample 250 bbl Cotton Draw Water Pit to 0.033 mg/L in water sample 50 bbl Cotton Draw Water Pit to 0.033 mg/L in water sample 50 bbl Cotton Draw Water Pit. Toluene concentrations ranged from 1.57 mg/L in water sample 250 bbl Cotton Draw Water Pit to 1.60 mg/L in water sample 50 bbl Cotton Draw Water Pit.

The analytical results indicated chloride concentrations ranged from 146,000 mg/L in water sample 90 bbl Cotton Draw Water Pit to 150,000 mg/L in water sample 50 bbl Cotton Draw Water Pit. TDS

concentrations ranged from 213,000 mg/L in water sample 90 bbl Cotton Draw Water Pit to 220,000 mg/L in water sample 250 bbl Cotton Draw Water Pit. Based on the analytical results of source water, it appears the primary contaminant of concern for this release will be chloride which exceeds the NMOCD recommended remediation guidelines.

TRC on behalf of TETRA, proposes the following delineation activities designed to advance the Trionyx Frac Pond Release Site toward an NMOCD and NMSLO approved closure:

- Utilizing a backhoe, one (1) background trench (BT) will be advanced to a depth of approximately ten (10) feet bgs. The background trench will be located in an area topographically upslope and at a distance from the Release Site. Initially, soil samples will be chloride field screened at one (1) foot vertical intervals and the chloride field screen intervals may be adjusted based on the initial chloride field screen results. The soil sample exhibiting the highest chloride concentration in the background trench and a soil sample at the bottom of the trench will be collected and submitted to a NMOCD approved laboratory for determination of concentrations of BTEX, TPH, and chloride.
- Utilizing a backhoe, advance three (3) soil investigation trenches (T-1 through T-3) within the release margins to a maximum depth of approximately ten (10) feet bgs. Initially, soil samples will be chloride field screened at one (1) foot vertical intervals and the chloride field screen intervals may be adjusted based on the initial chloride field screen results. When chloride field screening indicates chloride concentrations are less than the NMOCD recommended concentration of 600 mg/kg, the soil investigation trench will be terminated.
- Based on the field screening results, the soil sample exhibiting the highest chloride concentration in each soil investigation trench and two (2) consecutive soil samples at the bottom of each soil investigation trench will be collected and submitted to a NMOCD approved laboratory for determination of concentrations of BTEX, TPH, and chloride. Following the collection of the soil samples, the investigation trenches will be backfilled as a safety precaution.
- In addition, four (4) soil investigation trenches (N. Trench, E. Trench, S. Trench, and W. Trench) will be advanced outside of the impacted area at a depth equal to the deepest trench within the release margins. Chloride field screening will be utilized to guide the advancement of the soil investigation trenches. If chloride field screening in the soil investigation trenches outside of the release margins indicates vertical and horizontal delineation of the contaminant of concern has not been successful, additional soil investigation trenches will be advanced to complete the delineation of the Release Site.
- Based on the field screening results, the soil sample exhibiting the highest chloride concentration in each soil investigation trench and the soil sample at the bottom of each soil investigation trench outside of the release margins will be collected and submitted to a NMOCD approved laboratory for determination of concentrations of BTEX, TPH, and chloride. Following the collection of the soil samples, the investigation trenches will be backfilled as a safety precaution.
- On receipt of favorable analytical results (below the NMOCD regulatory guidelines referenced above), a "Soil Investigation Summary and Proposed Soil Remediation Strategy" will be prepared on behalf of TETRA and submitted to the NMOCD and NMSLO for approval. If the analytical results indicate the soil investigation trenches have not provided vertical delineation of the Release Site, an air rotary drilling rig may be mobilized to the Release Site to continue the vertical delineation efforts.

TETRA is prepared to begin the activities outlined in this Proposed Soil Delineation Workplan on NMOCD and NMSLO approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-559-3296 (cell).

Thank you,

Curt D. Stanley Senior Project Manager TRC Environmental Corporation

Jael Joury

Joel W. Lowry Senior Project Manager TRC Environmental Corporation

Released to Imaging: 9/20/2022 1:02:46 PM

Attachments:

Figure 1 - Site Location Map Figure 2 - Site Map and Proposed Soil Investigation Trenches NMOSE Data Laboratory Analytical Results Release Notification and Corrective Action (Form C-141)

cc: File



Released to Imaging: 9/20/2022 1:02:46 PM





Page 27 of 124

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD N	UMBER	(WELL	NUMBER)			*****	OSE FILE NU	MBER(S)			
Z.	. 1							C-3830				
Ē	WELL OWN	NER NAM	Œ(S)	-	······			PHONE (OPT	IONAL)			•
l S	ROCK	lous	E R/	ANCH INC.				575-995	-6920			
IL LU	WELL OWN			ADDRESS						STATE	882	21P
WE								OF THEOL				
2	WELL	. T		DEGREE	S MINUTE	S SECONI	DS					
ΓV	LOCATI	ON	LATT	32 TUDE	09	22	N	* ACCURACY	' REQUIRED: ONE TEN	TH OF A SEC	OND	
RA	(FROM G	PS)	LONG	103	44	31	Ŵ	* DATUM RE	QUIRED: WGS 84			
EN	DESCRIPTIC	IN RELATI	NGWE		T ADDRESS AND COMA	MON I ANOMARKS - PIS	S (SECTION TO					
1.6	SE 1/4	NE 1/	4 81		N 2 TOWNSE	UP 258 RANG						
			τ, Οι ·	- 174, OLOTIC		11 200, HANC						
	LICENSE N	UMBER		NAME OF LICENSEL	DRILLER	······			NAME OF WELL DR	ILLING COM	PANY	
	WD-16	J7		LUIS A. (TON	Y) DURAN				DURAN DRIL	LING		
	DRILLING : 1/28/15	STARTEL	2	DRILLING ENDED	DEPTH OF COMPLET	TED WELL (FT)	BORE HOL 450	E DEPTH (FT).	DEPTH WATER FIR 300	ST ENCOUNI	ERED (FT)	
						-	<u> </u>		STATIC WATER I FY	TET IN COMP	I FTED WI	11/80
1-2-	COMPLETE	D WELL	15: () ARTESIAN	O DRY HOLE	SHALLOW (UNCO	ONFINED)		STATIC WATER LE	VEL IN COME	LEIBD WI	
1IO	DRILLING	LUID:	(AIR		ADDITIVES - SPE	CIFY DA	ILLING M	1 UD			
WW.	DRILING	THOD		ROTARY				P SPECIEV				
1 Q	DEDTU	(feat he						K-SFECIFT.	1	1		
R	EDOM	(leet by	,)) 	BORE HOLE	GRADE CASING MATERIAL AND/OR CA		CA	SING	CASING	CASING	WALL	SLOT
S	FROM 10 DIAM		(include each casing string, and		CONN	IECTION YPE	INSIDE DIAM.	(inches) (inches)		SIZE (inches)		
AS.				(inches)	note section	is of screen)			(incres)			C (monos)
ୢୡ	0	220		12	STEEL		STEEL	PERF	7	1/4 😇		≱-
NG	220	450		12	STEEL PER	F	STEEL		7	1/4		· 1/8
ГП										1		L D
DRI											Ú	1-11
3.										n ju V		C C L
												D D
									•	ب. د	₹ <u>₹</u> .	ง ก
										5) 2	25
·												
1	DEPTH	(feet bg)	BORE HOLE	LIST AN	NULAR SEAL MA	TERIAL A	ND DN	AMOUNT	1	METHO) ()F
3	FROM	TO	<u>, </u>	DIAM. (inches)	GRAVEL P	L PACK SIZE-RANGE BY INTERVAL			(cubic feet)		PLACEM	ENT
RI	0	-20		12	20 BGS 80 L	BS CEMENT			· · · · · · · · · · · · · · · · · · ·		ER	
ATA	20	450		12	22 YARDS 1/	4" GRAVEL						
W											****	
IAI												
E -					· · · ·							
A												
с									·······			
·												
FOR	OSE INTER	NAL US	SE			••••••••••••••••••••••••••••••••••••••		WR-20	WELL RECORD &	LOG (Vers	ion 06/08	/2012)
FILE	NUMBER	C-3	382	30		POD NUMBER	ķ	TRN N	UMBER 51	000	S	
	6	SS.	316	5.2.4.24	¢					<u></u>		
			•							٣Ļ		

Received by OCD: 12/10/2020 9:22:26 AM

			£ 10.00	
	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONF (attach supplemental sheets to fully describe all units)
	0	1	1	TOPSOIL
	1	4	3	CALICHE
	4	16	12	SAND
	90	99	9	CLAY
	99	190	91	SAND
-	190	250	60	BROWN CLAY
VEL	250	265	15	SAND
OF V	265	340	75	CLAY
8	340	348	8	SAND
ICL	348	378	30	GRAVEL
900	378	384	6	CALY
EOI	384	448	64	SAND
ROG	448	450	2	RED BED
UVD				
4				
			1	

Received by OCD: 12/10/2020 9:22:26 AM

	90	99	9	CLAY				OY ON	1
	99	190	91	SAND					
	190	250	60	BROWN CLAY					
/ELI	250	265	15	SAND				OY ON	
DF M	265	340	75	CLAY					
ğ	340	348	8	SAND				O ^Y O ^N	
ICL	348	378	30	GRAVEL				O Y O N	10
6	378	384	6	CALY		<u></u>		O ^Y O ^N	
EOI	384	448	64	SAND	**************************************		*****	● ^Y O ^N	5
ROG	448	450	2	RED BED				OY ON	
								O ^Y O ^N	
4								O ^Y O ^N	
				·····				O ^Y O ^N	
					-/m			O ^Y O ^N	
								O ^Y O ^N	-
		-	ľ					O ^Y O ^N	
								O ^Y O ^N	
								O ^Y O ^N	
	METHOD	USED TO ES	STIMATE YIEI	D OF WATER-BEARIN	IG STRATA:	PIMP		TOTAL ESTIMATED	. '
						J . O			15
	O AIR LIF	T 🔘	BAILER (OTHER - SPECIFY:				WELL YIELD (gpm)	15
	O AIR LIF	FT O	BAILER (O OTHER - SPECIFY:			TEETING INCL	WELL YIELD (gpm):	15 METHOD
ON	O AIR LIF	ST TEST ST STAR	BAILER (RESULTS - AT T TIME, END	OTHER – SPECIFY: TTACH A COPY OF DA'	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	
VISION	O AIR LIF	ST TEST ST STAR	BAILER (RESULTS - A) T TIME, END '	O OTHER – SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PBB	
PERVISION	O AIR LIF	ST TEST STAR	BAILER (RESULTS - AI T TIME, END	OTHER – SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	
SUPERVISION	O AIR LIF	ST TEST ST TEST STAR	BAILER (RESULTS - AI T TIME, END	O OTHER – SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE ST	TA COLLECTED DI HOWING DISCHAR	JRING WELL	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	
RIG SUPERVISION	O AIR LIF	ST EST ST TEST STAR	BAILER (RESULTS - AT T TIME, END T TORMATION:	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	
EST; RIG SUPERVISION	O AIR LIF	ST TEST ST TEST STAR	BAILER (RESULTS - AT T TIME, END TORMATION:	O OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE ST	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	15 METHOD, OD. 200 The The The The The The The The The The
5. TEST; RIG SUPERVISION	O AIR LIF	ST TEST ST TEST STAR ANEOUS INF ME(S) OF DU DURAN	BAILER (RESULTS - AT T TIME, END ' ORMATION: RILL RIG SUP	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	15 METHOD, OD.
5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL	ST TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN	BAILER (RESULTS - AT T TIME, END TORMATION:	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE ST	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	15 METHOD, OD. 267 FE FE FE FE FE FE FE FE FE FE FE FE FE
5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A.	TEST TEST TAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED H	BAILER (RESULTS - AT T TIME, END ORMATION: RILL RIG SUP	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU	JRING WELL IGE AND DRA	TESTING, INCL WDOWN OVER DF WELL CONST GE AND BELIEI	WELL YIELD (gpm)	15 METHOD, OD. 52 TE TE TE TE TE TE TE TE TE TE TE TE TE
JRE 5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAI LUIS A.	TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O PERMIT HO	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LDER WITHIN	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TIFIES THAT, TO THE B DESCRIBED HOLE AN V 20 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU EEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WEL	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE L DRILLING:	TESTING, INCL WDOWN OVER OF WELL CONS ^T GE AND BELIEI THIS WELL RE	WELL YIELD (gpm)	15 METHOD, OD. 202 Info Info Info Info Info Info Info Info
ATURE 5. TEST; RUG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O PERMIT HO	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LDER WITHIN	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TFIES THAT, TO THE H DESCRIBED HOLE AN V 20 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU BEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WELL	JRING WELL GE AND DRA PERVISION C R KNOWLED E WILL FILE L DRILLING:	TESTING, INCL WDOWN OVER DF WELL CONS GE AND BELIEI THIS WELL RE	WELL YIELD (gpm)	15 METHOD, OD. 52 HAN LICENSEE:
SIGNATURE 5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST TEST STAR TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O PERMIT HO	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LDER WITHIN	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TIFIES THAT, TO THE B DESCRIBED HOLE AN 120 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU DVIDED ONSITE SU EEST OF HIS OR HE ND THAT HE OR SH PLETION OF WEL C D D	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE L DRILLING:	TESTING, INCL WDOWN OVER OF WELL CONS ⁷ GE AND BELIEI THIS WELL RE	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PER THE TESTING PER TRUCTION OTHER TRUCTION OTHER T	15 METHOD, OD. 50 ITT ITT ITT ITT ITT ITT ITT ITT ITT IT
6. SIGNATURE 5. TEST; RUG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST TEST ST TEST STAR STAR ST	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE SI ERVISOR(S) THAT PRO TFIES THAT, TO THE H EDESCRIBED HOLE AN V 20 DAYS AFTER COM MULTIPLE (PRINT SIGNEE	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU EEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WELL S. M. DUA NAME	JRING WELL GE AND DRA GE AND DRA PERVISION C R KNOWLED IE WILL FILE L DRILLING:	TESTING, INCL WDOWN OVER DF WELL CONST GE AND BELIEI THIS WELL RE	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PER THE TESTING PER TRUCTION OTHER TRUCTION OTHER T	15 METHOD, OD. The The The The The The The The The The
6. SIGNATURE 5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST TEST STAR TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O PERMIT HO SIGNAT	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN URE OF DRIL	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE SI ERVISOR(S) THAT PRO TIFIES THAT, TO THE B DESCRIBED HOLE AN V 20 DAYS AFTER COM MARCH (PRINT SIGNEE)	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU EST OF HIS OR HE ND THAT HE OR SH PLETION OF WEL S. M. DUA NAME	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE L DRILLING:	TESTING, INCL WDOWN OVER OF WELL CONS GE AND BELIEI THIS WELL RE	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PER THE TESTING PER TRUCTION OTHER F, THE FOREGOING CORD WITH THE ST	15 METHOD, OD. 55 ITT ITT ITT ITT ITT ITT ITT ITT ITT I
6. SIGNATURE 5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O PERMIT HO SIGNAT	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN UKE OF DRIL	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE SI ERVISOR(S) THAT PRO TIFIES THAT, TO THE B DESCRIBED HOLE AN V 20 DAYS AFTER COM LER / PRINT SIGNEE	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU DVIDED ONSITE SU DEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WELL S. M. DUA NAME	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE DRILLING:	TESTING, INCL WDOWN OVER DF WELL CONST GE AND BELIEI THIS WELL REC WR-20 WELI	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PER THE TESTING PER TRUCTION OTHER F, THE FOREGOING CORD WITH THE ST CORD WITH THE ST CORD WITH THE ST L RECORD & LOG (V	15 METHOD, OD. 65 HAN LISENSEE: The second s
H G. SIGNATURE 5. TEST; RIG SUPERVISION	O AIR LIF WELL TES MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE CORRECT AND THE CORRECT AND THE CORRECT AND THE CORRECT	TEST TEST STAR TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED H RECORD O PERMIT HO SIGNAT RNAL USE C-3	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN UKE OF DRIL	OTHER - SPECIFY: TTACH A COPY OF DA' TIME, AND A TABLE SI ERVISOR(S) THAT PRO THES THAT, TO THE B DESCRIBED HOLE AN V 20 DAYS AFTER COM MARKED	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU DVIDED ONSITE SU DI THAT HE OR SH PLETION OF WEL SUPPLETION OF WEL NAME POD NUMBER	JRING WELL IGE AND DRA IGE AND DRA PERVISION C R KNOWLED IE WILL FILE . DRILLING:	TESTING, INCL WDOWN OVER OF WELL CONST GE AND BELIEI THIS WELL REG WR-20 WELI TRN NUMBE	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PER THE TESTING PER TRUCTION OTHER F, THE FOREGOING CORD WITH THE ST (-02-15) DATE L RECORD & LOG (V R 560000	15 METHOD, OD. 47 IT IT IS A TRUE AND ATE ENGINEER

5

٠.

ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)

.

WATER BEARING?

(YES/NO)

• N

• N.

ΟΥ

ΟΥ



February 13, 2018

ANDREW ROMO TETRA TECHNOLOGIES 1114 S FM 1788 MIDLAND, TX 79765

RE: COTTON DRAW WATER PIT

Enclosed are the results of analyses for samples received by the laboratory on 02/12/18 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

TETRA TECHNOLOGIES ANDREW ROMO 1114 S FM 1788 MIDLAND TX, 79765 Fax To:

Received:	02/12/2018	Sampling Date:	02/12/2018
Reported:	02/13/2018	Sampling Type:	Wastewater
Project Name:	COTTON DRAW WATER PIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: 250 BBL COTTON DRAW WATER PIT (H800433-01)

BTEX 8021B	mg/	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.813	0.020	02/12/2018	ND	0.020	99.2	0.0200	0.733	
Toluene*	0.569	0.020	02/12/2018	ND	0.020	97.9	0.0200	1.35	
Ethylbenzene*	0.031	0.020	02/12/2018	ND	0.020	97.5	0.0200	2.48	
Total Xylenes*	0.154	0.060	02/12/2018	ND	0.061	102	0.0600	1.74	
Total BTEX	1.57	0.120	02/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 81.3-12	8						
Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	150000	4.00	02/12/2018	ND	104	104	100	3.92	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	220000	5.00	02/13/2018	ND	209	98.1	213	2.38	
TPH 8015M	mg	/L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2.27	1.00	02/12/2018	ND	37.4	74.8	50.0	0.837	
DRO >C10-C28*	<1.00	1.00	02/12/2018	ND	48.5	96.9	50.0	2.18	
EXT DRO >C28-C36	<1.00	1.00	02/12/2018	ND					
Surrogate: 1-Chlorooctane	70.5	% 37.1-13	8						
Surrogate: 1-Chlorooctadecane	90.7	% 44.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Docoivod:



02/12/2010

Analytical Results For:

	TETRA TECHNOLOGIES	
	ANDREW ROMO	
	1114 S FM 1788	
	MIDLAND TX, 79765	
	Fax To:	
02/12/2019		Sampling Data:
02/12/2018		Sampling Date.
02/13/2018		Sampling Type

Receiveu.	02/12/2010	Sampling Date.	02/12/2010
Reported:	02/13/2018	Sampling Type:	Wastewater
Project Name:	COTTON DRAW WATER PIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: 90 BBL COTTON DRAW WATER PIT (H800433-02)

BTEX 8021B	mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.823	0.020	02/12/2018	ND	0.020	99.2	0.0200	0.733	
Toluene*	0.583	0.020	02/12/2018	ND	0.020	97.9	0.0200	1.35	
Ethylbenzene*	0.033	0.020	02/12/2018	ND	0.020	97.5	0.0200	2.48	
Total Xylenes*	0.162	0.060	02/12/2018	ND	0.061	102	0.0600	1.74	
Total BTEX	1.60	0.120	02/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	81.3-12	8						
Chloride, SM4500Cl-B mg/L		Έ	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	146000	4.00	02/12/2018	ND	104	104	100	3.92	
TDS 160.1 mg		- Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	213000	5.00	02/13/2018	ND	209	98.1	213	2.38	
TPH 8015M	5M mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2.65	1.00	02/12/2018	ND	37.4	74.8	50.0	0.837	
DRO >C10-C28*	<1.00	1.00	02/12/2018	ND	48.5	96.9	50.0	2.18	
EXT DRO >C28-C36	<1.00	1.00	02/12/2018	ND					
Surrogate: 1-Chlorooctane	75.0	% 37.1-13	8						
Surrogate: 1-Chlorooctadecane	78.7	% 44.6-15	1						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Loratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/10/2020 9:22:26 AM



Laboratories

Page 33 of 124

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 34 of 124

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 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 Devon Energy Production Co LP (6137)	Contact Stephen Richards, Devo	n Completions Forema	an	
Address PO BOX 250, Artesia, NM 88211	Telephone No. (575) 252-3717			
Facility Name: Trionyx Frac Pond (Completing wells on the	Facility Type Oil			
Arabian 30-19 Fed Com 1H)				

Surface Owner: State	Mineral Owner: State	API No. 30-025-43176
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter P	Section 2	Township 25S	Range 31E	Feet from the	North/South Line	Feet from the	East/West Line	County EDDY
1								

Latitude 32.154386 N Longitude 103.740605 W NAD83

NATURE OF RELEASE Type of Release: Treated Produced Water Volume of Release: 50 bbls Volume Recovered: 40 bbls Source of Release: Lay Flat Transfer Line Date and Hour of Occurrence: Date and Hour of Discovery 10/24/2017 @ 2:14 PM MST 10/24/2017 @ 2:14 PM MST Was Immediate Notice Given? If YES, To Whom? Yes No Not Required OCD: Olivia Yu RECEIVED By Olivia Yu at 9:23 am, Nov 17, 2017 By Whom? Date and Hour: Mike Shoemaker, EHS Professional OCD: 10/25/17 @ 7:24 PM MST Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. \square Yes \square No NA If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* A contract company was pigging the layflat line from the Arabian 30-19 Fed Com 1H to the Trionyx pond. They had completed the line from the location

to their booster pump, after rigging up to pig from the booster pump to the Trionyx pond there was some air in the line which caused the line to come out of the pond and allowed fluid to be release to the ground from the line. The contract company shut down operations and notified Devon personnel. Approximately 50bbls of produced water ran off the side of the pond onto the Trionxy facility. A vacuum truck was dispatched and recovered 40 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*

The spill affected approximately 25,000 square feet running South from the release point. Approximately 50 barrels of treated produced water was spilled and approximately 40 barrels were recovered. A remediation contractor will be contacted to assist with the delineation and remediation efforts.

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: Denise Menoud	OIL CONSERVATION DIVISION			
Printed Name: Denise Menoud	Approved by Environmental Specialist:			
Title: Admin Field Support	Approval Date: 11/17/2017 Expiration Date:			
E-mail Address: denise.menoud@dvn.com	Conditions of Approval:			
Date: 10/30/2017 Phone: (575)746-5544	see attached directive			
* Attach Additional Sheets If Necessary	1RP-4867			

nOY1732133962

pOY1732135037

Released to Imaging: 9/20/2022 1:02:46 PM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _11/6/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4867_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _12/17/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us
From:	Mann, Ryan
To:	Yu, Olivia, EMNRD; Stanley, Curtis D.
Cc:	<u>Clifford Kirchof; acalvin@tetratec.com; D3Escalante@tetratec.com; pwindham@swiftwater.com; Lowry, Joel;</u>
	Crain, Cynthia K.; Bratcher, Mike, EMNRD
Subject:	RE: Proposed Soil Delineation Workplan - TETRA Technologies Trionyx Frac Pond (1R-4867)
Date:	Tuesday, September 4, 2018 1:51:07 PM

NMSLO approves of the delineation plan as written with no additional conditions.

Ryan Mann Remediation Specialist Field Operation Division (575) 392-3697 (505) 699-1989 New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Monday, August 27, 2018 11:23 AM

To: Stanley, Curtis D. <CDStanley@trcsolutions.com>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: Clifford Kirchof <CKirchof@tetratec.com>; acalvin@tetratec.com; D3Escalante@tetratec.com; pwindham@swiftwater.com; Lowry, Joel <JLowry@trcsolutions.com>; Crain, Cynthia K.
<CKCrain@trcsolutions.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: RE: Proposed Soil Delineation Workplan - TETRA Technologies Trionyx Frac Pond (1R-4867)

Good morning Mr. Stanley:

Please note that the RRAL levels for TPH are incorrect on page 2.

NMOCD approves of the proposed delineation/release characterization plan for 1RP-4867. Please include in the subsequent report, a scaled map with the locations of the background sample and release point, along with the delineation sample trenches. Also, please remember to include all associated field and laboratory data and photo documentation.

Like approval from NMSLO required. NMSLO may have additional conditions and stipulations.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately

investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Stanley, Curtis D. <<u>CDStanley@trcsolutions.com</u>>
Sent: Monday, July 30, 2018 3:57 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; <u>rmann@slo.state.nm.us</u>
Cc: Clifford Kirchof <<u>CKirchof@tetratec.com</u>>; <u>mike.shoemaker@dvn.com</u>; <u>acalvin@tetratec.com</u>;
D3Escalante@tetratec.com; <u>pwindham@swiftwater.com</u>; Lowry, Joel <<u>JLowry@trcsolutions.com</u>>;
Crain, Cynthia K. <<u>CKCrain@trcsolutions.com</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>

Subject: Proposed Soil Delineation Workplan - TETRA Technologies Trionyx Frac Pond (1R-4867)

Dear Ms. Yu and Mr. Mann,

TRC Environmental Corporation (TRC), on behalf of TETRA Technologies, Inc. (TETRA) is pleased to submit the attached Trionyx Frac Pond (NMOCD Reference 1R-4867) *Proposed Soil Delineation Workplan* for your review and approval. The Release Site is located in Unit Letter "P", Section 2, Township 25 South, Range 31 East, NMPM in Eddy County, New Mexico. Please note, the Release Site is located within Eddy County, New Mexico. Please advise, if the New Mexico State Land Office (NMSLO) will require a "Right of Entry" Permit prior to commencing the proposed delineation activities. In addition, please advise if the NMSLO will require a New Mexico Archaeological Records Section (NMARMS) database query prior to commencing the proposed delineation activities. If you have any questions, please contact me by email or phone at your convenience.

Respectfully submitted,

Curt D. Stanley Senior Project Manager

Please note our address and phone numbers have changed.



10 Desta Drive, Suite 150E, Midland, TX 79705 T: 432.520.7720 | C: 432.559.3296 | D: 432.294.5193

LinkedIn | Twitter | Blog | www.trcsolutions.com

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit <u>http://www.symanteccloud.com</u>

.

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit http://www.symanteccloud.com State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 40 of 124

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

	OPERATOR		🛛 Initia	l Report		Final Report
Name of Company Devon Energy Production Co LP (6137)	Contact Stephen R	Contact Stephen Richards, Devon Completions Foreman				
Address PO BOX 250, Artesia, NM 88211	Telephone No. (57	(5) 252-3717				
Facility Name: Transfer line from Trionyx Frac Pond to	Facility Type Oil	well				
Arabian 30-19 Fed Com 1H – Spill 2 (Near the Shire 22 Fed						
1H (API #30-015-43222)						
Surface Owner: Federal Mineral Own	er: Federal		API No	. 30-025-4	3176	
LOCATION OF RELEASE						
Unit LetterSectionTownshipRangeFeet from theNuH2725S31E	Feet from the East/West Line County			County Eddy		
Latitude 32.102724 N Longitude 103.757986 W NAD83						
Type of Release: Treated Produced Water	Volume of Release	e: 397 bbls	Volume Recovered: 0 bbls			
Source of Release: Lay Flat Transfer Line	Date and Hour of Occurrence: 10/18/2017, 11:46 PMDate and Hour of Discovery 10/18/2017, 11:46 PM					
Was Immediate Notice Given?	If YES, To Whom	If YES, To Whom?				
Yes 🗌 No 🗍 Not Requi	red	OCD: Crystal	Weaver &	Mike Bratch	ner	

	BLM: Sh	elly Tucker
By Whom?	Date and Hour:	
Mike Shoemaker, EHS Professional	OCD: 10	/19/17, 5:46 PM
	BLM: 10	/19/17, 5:46 PM
Was a Watercourse Reached?	If YES, Volume Impacting the	Watercourse.
Yes X No	NA	
		RECEIVED
If a Watercourse was Impacted, Describe Fully.* NA		Di Olivio Viu et 10:27 em Neu 17 2017
		By Olivia Yu at 10:37 am, Nov 17, 2017
Describe Cause of Problem and Remedial Action Taken.*		
During rigging up of layflat hose a victrolic and connector was re-	moved from hose in order to fit	hose under cattle quard. When the

During rigging up of layflat hose a victrolic end connector was removed from hose in order to fit hose under cattle guard. When the contract company reassembled the end to the hose they failed to tighten the clamp bolts. After hydro testing the line to 100 PSI they began the frac job. During stage 2 the victrolic connection blew out of the hose. Approximately 397 bbls of produced water was released with 0 bbls of produced water being recovered. The pump was shut down and the clamps were tightened.

Describe Area Affected and Cleanup Action Taken.*

The spill affected approximately 1,214 square feet running North, East, and West from the rupture point located approximately at 32.102724 N, 103.757986 W and is approximately 2.15 miles West from the Albian 30-19 Fed Com 1H well pad. An estimated 397 barrels of treated produced water was spilled and 0 barrels were recovered. A remediation contractor will be contacted to assist with the delineation and remediation efforts.

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.

	OIL CONSERVATION DIVISION				
Signature: <i>Denise Mencud</i>	Approved by Environmental Specialist:				
Printed Name: Denise Menoud					
Title: Admin Field Support	Approval Date: Expiration Date:				
E-mail Address: denise.menoud@dvn.com	Conditions of Approval:				
pOV1732141384 b2 1 pOV1732141830	see attached directive 1RP-4872				

.

 Date:
 10/24/2017
 Phone:
 (575)746-5544

 * Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _11/16/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4872_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _12/17/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

From:	Shoemaker, Mike
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; Shelly Tucker (stucker@blm.gov); Yu, Olivia, EMNRD
Cc:	Fulks, Brett; Menoud, Denise
Subject:	RE: Spill Notification for the Snapping 2 State 9 H (now Arabian 30-19 FC 1H-Spill 2)
Date:	Thursday, November 16, 2017 3:22:21 PM
Attachments:	image001.png
	C-141 - Arabian 30-19 FC 1H - Spill 2 10.18.17.doc

Crystal,

Please see the revised C-141 with the corrected API # for the Arabian 30-19 Fed Com 1 (API#30-025-43176). Per our conversation I have also included Olivia on the e-mail chain and will include her on all correspondence going forward for this release.

If you need any additional information please let me know.

Thanks,

Mike Shoemaker EHS Representative

Devon Energy Corporation 6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



From: Shoemaker, Mike
Sent: Thursday, November 02, 2017 7:48 PM
To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; 'Bratcher, Mike, EMNRD'
<mike.bratcher@state.nm.us>; Shelly Tucker (stucker@blm.gov) <stucker@blm.gov>
Cc: Fulks, Brett (Brett.Fulks@dvn.com) <Brett.Fulks@dvn.com>; Menoud, Denise
(Denise.Menoud@dvn.com) <Denise.Menoud@dvn.com>
Subject: Spill Notification for the Snapping 2 State 9 H (now Arabian 30-19 FC 1H-Spill 2)

Good Evening,

Attached please find the Initial C-141 and GIS Image for the 397 bbls produced water released at the Arabian 30-19 FC 1H-Spill 2(Initially reported as the Snapping 2 State 9 H-see e-mail chain below) on 10.18.17.

Per your recent guidance on C-141s I have updated the naming conventions and pads that these locations have been associated to. My updates can be found in red in the e-mail chain below. If you have any questions please let me know.

Please note that the API number tagged for the Arabian 30-19 FC 1H would indicate that this release should be sent to Olivia in District 1. I originally notified the District 2 based off of the APIs # for the locations that were originally tagged for this release (All 30-015-XXXXX).

Based on the GPS coordinates for where the actual release occurred I believe it will stay with the District 2 Office as it is just inside Eddy County but if this is incorrect please let me know and I will adjust it accordingly.

Thank you,

Mike Shoemaker EHS Representative

Devon Energy Corporation

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



From: Shoemaker, Mike
Sent: Thursday, October 19, 2017 5:46 PM
To: Weaver, Crystal, EMNRD <<u>Crystal.Weaver@state.nm.us</u>>; Bratcher, Mike, EMNRD
<<u>mike.bratcher@state.nm.us</u>>; Shelly Tucker (<u>stucker@blm.gov</u>) <<u>stucker@blm.gov</u>>
Cc: Fulks, Brett (<u>Brett.Fulks@dvn.com</u>) <<u>Brett.Fulks@dvn.com</u>>
Subject: Spill Notification for the Shire 22 Fed 1H and the Snapping 2 State 9

Good Evening,

Devon had the following two releases which occurred simultaneously at 11:46 PM on 10/18/17. The two incidents are described below.

- 1. Shire 22 Fed 1H (API # 30-015-43222) now Arabian 30-19 FC 1H-Spill 1
 - a. The following GPS coordinates were taken at the point of the release
 (Lat:32.114514° N, Long: -103.758858°W) ½ mile south of the Shire 22 FED 1 H During rigging up of layflat hose a victrolic end connector was removed from hose in
 order to fit hose under cattle guard. When the contract company reassembled the
 end to the hose they failed to tighten the clamp bolts. After hydro testing the line to
 100 PSI they began the frac job. During stage 2 the victrolic connection blew out of
 the hose. Approximately 396 bbls of produced water was released with 240 bbls of
 produced water being recovered.
- Snapping 2 State 9 H (API # 30-015-43023) now Arabian 30-19 FC 1H-Spill 2 (this was also updated on C-141 to reflect that it is in better proximity to the Shire rather than the Snapping)
 - a. The following GPS coordinates were taken at the point of the release (Lat:32.091466° N, Long: -103.757313°W updated to Lat:32.102724° N, Long: -103.7757986°W original coordinates were incorrect. The coordinates in the C-141 reflect this update also) 600′ west of Snapping 2 State 9 H - During rigging up of layflat hose a victrolic end connector was removed from hose in order to fit hose

under cattle guard. When the contract company reassembled the end to the hose they failed to tighten the clamp bolts. After hydro testing to 100 PSI they began the frac job. During stage 2 the victrolic connection blew out of the hose. Approximately 397 bbls of produced water was released with 0 bbls of produced water being recovered.

An initial C-141 will be completed and sent to the NMOCD and BLM. If you have any additional question please let me know.

Thanks,

Mike Shoemaker EHS Representative

Devon Energy Corporation

6488 Seven Rivers Highway Artesia, New Mexico 88210 575-746-5566 Office 575-513-5035 Mobile



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



Remediation and Closure Report

Arabian 30 19 Federal Com #001H Lea County, NM API# 30-025-43176, NOY1732141384 (1RP-4872)

Prepared For:

Devon Energy Production Company 6488 Seven Rivers Highway Artesia, New Mexico 88210

Prepared By:

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

December 9, 2020

Released to Imaging: 9/20/2022 1:02:46 PM

Mr. Jim Amos Bureau of Land Management 620 East Green Street Carlsbad, NM 88220

Mr. Bradford Billings **NMOCD District 1** 1220 South St. Francis Dr. Santa Fe, NM 87505

Subject: Remediation and Closure Report Arabian 30 19 Federal Com #001H Lea County, NM API# 30-025-43176, NOY1732141384 (1RP-4872)

Dear Mr. Amos & Mr. Billings,

Devon Energy Production Company (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above-referenced location. The results of our site characterization and remediation activities are contained herein.

Site Information

The Arabian 30 19 Federal Com #001H is located approximately fifty-three (53) miles southwest of Hobbs, New Mexico. While the well with which this release is associated is located within Lea County, the release itself occurred from a flowline 2.15 miles west of the location in Eddy County. The legal location for this release is Unit Letter H, Section 27, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.102724 North and -103.757986 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, the soil in this area is made up of Berino complex soils with 0 to 3 percent slopes, eroded. The local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and alluvium sand deposits. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer web site indicates that the nearest depth to groundwater is 390' below ground surface (BGS). See Appendix II for the referenced groundwater data.

Page 48 of 124

Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to	Groundwater	390 Feet/BGS
∐Yes ⊠No	Within 300 feet of any continuously flowing war any other significant watercourse	tercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or play	ya lake
□Yes ⊠No	Within 300 feet from an occupied permanent reschool, hospital, institution or church	esidence,
□Yes ⊠No	Within 500 feet of a spring or a private, domest well used by less than five households for dom watering purposes	tic fresh water estic or stock
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or sprin Within incorporated municipal boundaries or with Municipal fresh water well field covered under a ordinance adopted pursuant to Section 3-2703	ng ithin a defined a municipal NMSA 1978
Yes ⊠No Yes ⊠No Yes ⊠No Yes ⊠No Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area Within a 100-year floodplain	

While this release does not meet any of the criteria listed above, pasture area was impacted by the release. Therefore, the closure criteria for this site are as follows:

	Tab	le I						
Closure Criteria for Soils Impacted by a Release								
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**					
<u>≤</u> 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg					
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					

Incident Description

On October 18, 2017, a vitrolic end connector failed during hydro-fracking operations, releasing 397 barrels (bbls) of produced water into the pasture area. No fluids were recovered.

Site Assessment

On June 24, 2020, Talon mobilized personnel to perform a site assessment and collect soil samples. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our sampling event are presented in the following data table. A complete laboratory report can be found in Appendix V.

Received by OCD: 12/10/2020 9:22:26 AM

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	(mg/kg)	TPH (mg/kg)	(mg/kg)
Cl 19.	losure Cr 15.29.12	iteria NMAC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	0-1	6/24/2020	ND	ND	ND	ND	ND	-:	9.25
S-1	1.5 R	6/24/2020	ND	ND	ND	ND	ND	<u>2</u>	9.15
	0-1	6/24/2020	ND	ND	ND	ND	ND	70	12
S-2	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.56
6.2	0-1	6/24/2020	ND	ND	ND	ND	ND	-	8.92
5-3	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.43
C 4	0-1	6/24/2020	ND	ND	ND	ND	ND	14 I.	9.52
5-4	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.57
	0-1	6/24/2020	ND	ND	ND	ND	ND	-	10.1
	2	6/24/2020	ND	ND	ND	ND	ND	i.e	8.88
5-5	3	6/24/2020	ND	ND	ND	ND	ND	-	6.67
	3.5 R	6/24/2020	ND	ND	ND	ND	ND	-	11.8
6.6	0-1	6/24/2020	ND	ND	ND	ND	ND		11
5-6	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.2
6.7	0-1	6/24/2020	ND	ND	ND	ND	ND	~	10.1
5-7	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.73
6.0	0-1	6/24/2020	ND	ND	ND	ND	ND	-	10.6
5-8	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.98
C O	0-1	6/24/2020	ND	ND	ND	ND	ND	-	9.73
5-9	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.9
6.40	0-1	6/24/2020	ND	ND	ND	ND	ND	-	6.55
5-10	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.6
C 44	0-1	6/24/2020	ND	ND	ND	ND	ND	-	11.9
5-11	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	11.5
0.40	0-1	6/24/2020	ND	ND	ND	ND	ND	-	11.2
5-12	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.3

Table 1 : Soil Sample Analysis

S-121.5 R6/24/2020ND=Analyte Not DetectedR= Boring Refusal

Total

Remedial Actions

 No soil remediation was deemed necessary as the presence of pollutants was not detected via laboratory analysis, nor did any of the surrounding vegetation appear to be adversely impacted.

Closure

Based on the results of this assessment, we request that no further actions be required and that closure regarding this incident be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE

Brandon Sinclair Project Manager David J. Adkins Regional Manager

Attachments: Appendix I Site Maps Appendix II Soil Survey & Groundwater Data Appendix III Final C-141's Appendix IV Photographic Documentation Appendix V Laboratory Data



APPENDIX I

SITE MAPS

Page 53 of 124









National Flood Hazard Layer FIRMette







<u>APPENDIX II</u>

SOIL SURVEY

GROUNDWATER DATA

Page 59 of 124

Eddy Area, New Mexico

BB-Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet Mean annual precipitation: 5 to 15 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 260 days Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Fan piedmonts, plains Landform position (three-dimensional): Riser Down-slope shape: Convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water
 (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e

USDA

Received by OCD: 12/10/2020 9:22:26 AM

Hydrologic Soil Group: B Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Description of Pajarito

Setting

Landform: Interdunes, plains, dunes Landform position (three-dimensional): Side slope Down-slope shape: Linear, convex Across-slope shape: Linear, convex Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand *H2 - 9 to 72 inches:* fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Cacique

Percent of map unit: 4 percent Ecological site: R042XC004NM - Sandy Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Wink

Percent of map unit: 4 percent Ecological site: R042XC003NM - Loamy Sand Hydric soil rating: No

Kermit

Percent of map unit: 3 percent Ecological site: R042XC005NM - Deep Sand Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



and the Burnet Canadian	/ Wate	Vew Mexico Office er Column/Av	ce of the Stat /erage De	e Engineer pth to Wa	ater
(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=N (quarters are smallest to largest)	E 3=SW 4=SE) (NAD83 UTM in mete	ers) (In f	eet)
POD Number <u>C 02250</u>	POD Sub- Code basin CUB	Q Q Q County 6416 4 Sec Tws Rng ED 3 1 4 21 25S 31E	X Y Di 614912 3553620* 📀 Average M	stanceDepthWellDept 2537 400 Depth to Water: Ainimum Depth:	Water thWater Column 390 10 390 feet 390 feet 390 feet
<u>Record Count:</u> 1 <u>UTMNAD83 Radiu</u> Easting (X): 61 *UTM location was derive	s Search (in meter 7187.9 ed from PLSS - see F	r <u>s):</u> Northing (Y): 3552497 telp	M Radius: 3000	aximum Depin:	230 1661

11/3/20 3:49 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Released to Imaging: 9/20/2022 1:02:46 PM

Page 63 of 124



APPENDIX III

FINAL C-141

Page 64 of 124

Received by OCD: 12/10/2020 9:22:26 AM

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 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 Devon Energy Production	n Co LP (6137)	Contact Stephen Richards, Devo	n Completions Forema	an	
Address PO BOX 250, Artesia, NM 88211 Telephone No. (575) 252-3717					
Facility Name: Transfer line from Trionyx Fr	ac Pond to	Facility Type Oil well			
Arabian 30-19 Fed Com 1H – Spill 2 (Near th	e Shire 22 Fed				
1H (API #30-015-43222)					
Surface Owner: Federal	Mineral Owner	: Federal	API No. 30-025-4	3176	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
H	27	25S	31E					Eddy	

Latitude 32.102724 N Longitude 103.757986 W NAD83

NATURE	OF RELEASE		
Type of Release: Treated Produced Water	Volume of Release: 397 bbls	Volume Recovered: 0 bbls	
Source of Release: Lay Flat Transfer Line	Date and Hour of Occurrence: 10/18/2017, 11:46 PM	Date and Hour of Discovery 10/18/2017, 11:46 PM	
Was Immediate Notice Given?	If YES, To Whom? OCD: Crystal Weaver & Mike Bratcher BLM: Shelly Tucker		
By Whom? Mike Shoemaker, EHS Professional	Date and Hour: OCD: 10/19/17, 5:46 PM BLM: 10/19/17, 5:46 PM		
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.		
If a Watercourse was Impacted, Describe Fully.* NA	E	By Olivia Yu at 10:37 am, Nov 17, 2017	
the frac job. During stage 2 the victrolic connection blew out of the bbls of produced water being recovered. The pump was shut down a Describe Area Affected and Cleanup Action Taken.* The spill affected approximately 1,214 square feet running North, East, an 103.757986 W and is approximately 2.15 miles West from the Albian 30- was spilled and 0 barrels were recovered. A remediation contractor will be	e hose. Approximately 397 bbls of and the clamps were tightened. Ind West from the rupture point locate of Fed Com 1H well pad. An estimate of contacted to assist with the delinea	of produced water was released with 0 d approximately at 32.102724 N, ated 397 barrels of treated produced water tion and remediation efforts.	
I hereby certify that the information given above is true and complete to tregulations all operators are required to report and/or file certain release republic health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report defederal, state, or local laws and/or regulations.	he best of my knowledge and underst otifications and perform corrective and e NMOCD marked as "Final Report" e contamination that pose a threat to loes not relieve the operator of respon	and that pursuant to NMOCD rules and ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health sibility for compliance with any other	
	OIL CONSER	VATION DIVISION	
Signature: Denise Menoud	Approved by Environmental Specialist:		
Title: Admin Field Support	Approval Date: 11/17/2017	Expiration Date:	
E-mail Address: denise.menoud@dvn.com	Conditions of Approval:	Attached	
nOY1732141384 pOY1732141830	see attached directive	1RP-4872	

1				
Date:	10/24/2017	Phone: (575)746-5544		
No. 4	1.1.1.1.1.01			

* Attach Additional Sheets If Necessary

•

Received by OCD: 12/10/2020 9:22:26 AM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _11/16/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4872_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _12/17/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

d l ral for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us Page 6 of 124 Page 6 Form C-141

State of New Mexico **Oil Conservation Division**

Incident ID	
District RP	1RP-4872
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Brandon Sinclair

Signature: 1/2/ Ju

email: bsinclair@talonlpe.com

Title: Environmental Project Manager

Date: 11-4-2020

Telephone: 575-746-8768

OCD Only

Received by:

Received by OCD: 12/10/2020 9:2

Date:

Released to Imaging: 9/20/2022 1:02:46 PM Tolosure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

closure Approved by:	APPROVED	Date:	
11 2.	By Ashley Maxwell at 1:00 pm, Sep 20, 2022		
rinted Name:		Title:	



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Page 70 of 124

Assessment Photographs






<u>APPENDIX V</u>

LABORATORY DATA

Page 73 of 124

Released to Imaging: 9/20/2022 1:02:46 PM



Received by OCD: 12/10/2020 9:22:26 AM

Analytical Report 665605

for

Talon LPE-Artesia

Project Manager: David Adkins

Arabian 30-19 1H

700794.332.01

06.30.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

Final 1.000





06.30.2020 Project Manager: **David Adkins Talon LPE-Artesia** 408 West Texas St. Artesia, NM 88210

Reference: XENCO Report No(s): 665605 Arabian 30-19 1H Project Address: Lea County

David Adkins:

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) 665605. 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. 665605 will be filed for 45 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,

Jession VRAMER

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Released to Imaging: 9/20/2022 1:02:46 PM





Sample Cross Reference 665605

Talon LPE-Artesia, Artesia, NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 0-1'	S	06.24.2020 12:52		665605-001
S-1 1.5' R	S	06.24.2020 12:56		665605-002
S-2 0-1'	S	06.24.2020 13:00		665605-003
S-2 1.5' R	S	06.24.2020 13:03		665605-004
S-3 0-1'	S	06.24.2020 13:05		665605-005
S-31.5' R	S	06.24.2020 13:08		665605-006
S-4 0-1'	S	06.24.2020 13:14		665605-007
S-4 1.5 R	S	06.24.2020 13:16		665605-008
S-5 0.1'	S	06.24.2020 13:20		665605-009
S-5 2'	S	06.24.2020 13:23		665605-010
S-5 3'	S	06.24.2020 13:25		665605-011
S-5 3.5' R	S	06.24.2020 13:28		665605-012
S-6 0-1'	S	06.24.2020 13:32		665605-013
S-6 1.5' R	S	06.24.2020 13:36		665605-014
S-7 0-1'	S	06.24.2020 13:40		665605-015
S-7 1.5' R	S	06.24.2020 13:44		665605-016
S-8 0-1'	S	06.24.2020 13:30		665605-017
S-8 1.5' R	S	06.24.2020 13:33		665605-018
S-9 0-1'	S	06.24.2020 13:24		665605-019
S-9 1.5' R	S	06.24.2020 13:27		665605-020
S-10 0.1'	S	06.24.2020 13:45		665605-021
S-10 1.5' R	S	06.24.2020 13:50		665605-022
S11 0.1'	S	06.24.2020 13:53		665605-023
S11 1.5' R	S	06.24.2020 13:57		665605-024
S-12 0-1'	S	06.24.2020 14:03		665605-025
S-12 1.5' R	S	06.24.2020 14:06		665605-026



Page 77 of 124

CASE NARRATIVE

Client Name: Talon LPE-Artesia Project Name: Arabian 30-19 1H

Project ID: 700794.332.01 Work Order Number(s): 665605 Report Date: 06.30.2020 Date Received: 06.25.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id:	S-1 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	: 665605-001		Date Collecte	ed: 06.24.20	20 12:52	Date	Received: 06.25.20	20 15:	45
Analytical Me	thod: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyset.	MAR		% Moist:			Tech:	MAB		
Analyst.	MAD		Data Bron Of	< <u>26 2020 08</u>	•41				
Seq Number:	3130200		Date Prep: 04	3.20.2020 00 704094	.41				
		CAS	Prep seq: 7	/00220			Analysis		Dil Factor
Parameter		Number	Result	MQL	SDL	Units	Date	Flag	
Chloride		16887-00-6	9.25	9.94	0.352	mg/kg	06.26.2020 13:38	J	1
Analytical Met	hod: TPH by SW8015 Mo	d				Prep I	Method: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
Sea Number	3130037		Date Prep: 00	5.25.2020 16	:48				
beq rumber.	5150057		Pren sea: 72	706231					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.8	49,8	13.8	mg/kg	06.26.2020 00:21	U	1
Diesel Rang	e Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 00:21	U	1
Motor Oil Ran	nge Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 00:21	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 00:21	U	
Surrogate			% Recovery		Limits	Units	Analysis Dat	B	Flag
I-Chlorooct	ane		94		70 - 135	%			
o-Terphenyl			98		70 - 135	70			
Analytical Metl	hod: BTEX by EPA 8021					Prep N	Method: 5035A		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number:	3130038		Date Prep: 06	.25.2020 16:	52				
~ 1 ~			Prep seq: 77	06233					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene		71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.26.2020 02:06	U	1
Toluene		108-88-3	<0.000529	0.00200	0.000529	mg/kg	06.26.2020 02:06	U	1
Ethylbenzene	8	100-41-4	< 0.000407	0.00200	0.000407	mg/kg	06.26.2020 02:06	U	1
m_p-Xylenes	5	179601-23-1	<0.000755	0.00401	0.000755	mg/kg	06,26,2020 02:06	U	I T
o-Xylene	-1	93-47-0 1330-20-7	<0.000404 <0.000404	0.00200	0.000404 0.000404	mg/kg mg/ka	00.20.2020 02:00	n	1
Total BTEX	äl	1,550-20-7	<0.000404		0.000404	mg/kg	06.26.2020 02:06	Ŭ	
10(0) 012A			-0,000 10 1			<i>0</i> b		·	
Surrogate			% Recovery		Limits	Units	Analysis Date	;	Flag
1,4-Difluoro	benzene		99		70 - 130	%			
4-Bromofluo	robenzene		95		70 - 130	%			



Page 79 of 124

Certificate of Analytical Results 665605

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id: S-1 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-002		Date Collecte	ed: 06.24.20	20 12:56	Date 1	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by E	PA 300/300.1				Prep 1	victhod: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 00	5.26.2020 08	:41				
•		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.15	9.94	0.352	mg/kg	06.26.2020 14:00	J	1
Analytical Method: TPH by SW8015 Mod					Prep N	Method: 8015		
Analysty CAC		% Moist:			Tech:	CAC		
Analyst. CAC		Date Pren: 0(5 25 2020 16	:48				
Seq Number: 3130037		Date Hep. %	706221					
		Prep seq: 7	700231			A 1		Di Fastos
Parameter	CAS Number	Result	MQL	SDL	Units	Date	Flag	DII Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 00:42	U	I
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 00:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 00:42	U	I
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 00:42	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		88		70 - 135	%			
o-Terphenyl		92		70 - 135	%			
Analytical Method: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Sea Number: 3130038		Date Prep: 06	5.25.2020 16:	:52				
		Prep seq: 77	06233					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000487	0.00201	0.000487	mg/kg	06.26.2020 02:28	U	1
Toluene	108-88-3	<0.000530	0.00201	0.000530	mg/kg	06.26.2020 02:28	U	1
Ethylbenzene	100-41-4	< 0.000408	0.00201	0.000408	mg/kg	06.26.2020 02:28	U	1
m_p-Xylenes	179601-23-1	<0.000757	0.00402	0.000757	mg/kg	06.26.2020 02:28	U 11	i i
o-Xylene	93-47-0 1330 20 7	<0.000405 <0.000405	0.00201	0.000405	шу/ку mg/kg	06.26.2020 02:28	U	ĩ
Aylenes, 10121	1330-20-7	<0.000405		0.000405	mg/kg	06.26.2020 02:28	Ŭ	
10(4) 0107					0 · 0			
Surrogate								
		% Recovery		Limits	Units	Analysis Date	e	Flag
1,4-Difluorobenzene		% Recovery 100		Limits 70 - 130	Units %	Analysis Date	e	Flag

•

Final 1.000



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Arabian 30-19 1H

Sample Id: S-2 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-003		Date Collect	ed: 06.24.202	20 13:00	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 0	6.26.2020 08	:41				
		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	12.0	9.98	0.353	mg/kg	06.26.2020 14:08		1
Analytical Methods TPH by SW8015 Mc	ъđ				Prep I	viethod: 8015		
Analysical Memod. 1111 by 5 W 6015 Me		% Moist			Tech	CAC		
Analyst. CAC		Date Pren: Of	5 25 2020 16	-48	10011.	- Cite		
Seq Number: 3130037		Dran gody 7	706231					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocathons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 01:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 01:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 01:02	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 01:02	υ	
Surrogate		% Recovery		Limits	Units	Analysis Date	9	Flag
Surrogate 1-Chlorooctane		% Recovery 85		Limits 70 - 135	Units %	Analysis Date	9	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 85 93		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		% Recovery 85 93		Limits 70 - 135 70 - 135	Units % % Prep M	Analysis Date Aethod: 5035A		Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 85 93 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB		Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 85 93 % Moist: Date Prep: 06	5.25.2020 16:	Limits 70 - 135 70 - 135 52	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77	5.25.2020 16: 906233	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	CAS Number	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result	5.25.2020 16: 06233 MQL	Limits 70 - 135 70 - 135 52 SDL	Units % Prep M Tech: Units	Analysis Date Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	5.25.2020 16: 06233 MQL 0.00200	Limits 70 - 135 70 - 135 52 52 SDL 0.000485	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 02:49	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 9.0004527	5.25.2020 16: 06233 MQL 0.00200 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 0.000485 0.000527 0.000485	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB <u>Analysis</u> Date 06.26.2020 02:49 06.26.2020 02:49	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m n Ywlenes	CAS Number 71-43-2 108-88-3 100-41-4 170601-23-1	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000485 <0.000427 <0.000405 <0.000405	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00200	Limits 70 - 135 70 - 135 52 52 52 50 0.000485 0.000527 0.000405 0.000405 0.000425	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xvlene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 52 0.000485 0.000527 0.000405 0.000752 0.000402	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U U U U	Flag Dil Factor ! 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 85 93 % Moist: Date Prep: 060 Prep seq: 77 Result <0.000485	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U U U U U U	Flag Dil Factor I I I I I I I I
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 85 93 % Moist: Date Prep: 060 Prep seq: 77 Result <0.000485	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 50 5000485 0.000485 0.000405 0.000405 0.000402 0.000402 0.000402 0.000402 0.000402	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate 1,4-Difluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 85 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	5.25.2020 16: 06233 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 52 52 52 52 50 5000485 0.000485 0.000427 0.000405 0.000405 0.000402 0.000402 0.000402 0.000402 0.000402 Limits 70 - 130	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	Flag U U U U U U U U	Flag Dil Factor I I I I J Flag



005005

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-2 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	1: 665605-004		Date Collect	ed: 06.24.20	20 13:03	Date	Received: 06.25.20	20 15:	45
Analytical Me	thod: Inorganic Anions by	EPA 300/300.1				Prepi	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number:	3130200		Date Prep: 0	6.26.2020 08	:41				
bed itemper.	5150200		Prep seq: 7	706226					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	9.56	9.98	0.353	mg/kg	06.26.2020 14:30	l	1
Analytical Met	hod: TPH by SW8015 Mo	đ				Prep I	Method: 8015		
Analyst	CAC		% Moist:			Tech:	CAC		
Anaryst.	0100027		Data Bran: ()	\$ 25 2020 16	48				
Seq Number:	3130037		Date Flep. or	70/021					
			Prep seq: 7	/00231					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 01:23	U	1
Diesel Range	e Organics (DRO)	C10C28DRO	<11.5	50.0	11,5	mg/kg	06.26.2020 01:23	υ	1
Motor Oil Ran	ige Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	[1,4	mg/kg	06.26.2020 01:23	0	1
Total TPH		PHC635	<11.4		11.4	mg/ĸg	06.26.2020 01:23	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	9	Flag
1-Chioroocta	ane		90		70 - 135	%			
o-Terphenyl			93		70 - 135	%			
Analytical Met	hod: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130038		Date Prep: 06	.25.2020 16:	52				
			Prep seq: 77	06233					
Parameter		CAS	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
		TAURDER							
Benzenc		71-43-2	<0,000483	0.00199	0.000483	mg/kg	06.26.2020 03:10	U	1
Benzenc Toluene		71-43-2 108-88-3	<0.000483 <0.000525	0.00199 0.00199	0.000483 0.000525	mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10	U U	1 1
Benzene Toluene Ethylbenzene	e	71-43-2 108-88-3 100-41-4	<0.000483 <0.000525 <0.000404	0.00199 0.00199 0.00199	0.000483 0.000525 0.000404	mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	บ บ บ	1 1 1
Benzene Toluene Ethylbenzene m_p-Xylenes	e s	71-43-2 108-88-3 100-41-4 179601-23-1	<0.000483 <0.000525 <0.000404 <0.000749	0.00199 0.00199 0.00199 0.00398	0.000483 0.000525 0.000404 0.000749	mg/kg mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	บ บ บ บ	1 1 1 1
Benzenc Toluene Ethylbenzene m_p-Xylenes o-Xylene	e S	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401	mg/kg mg/kg mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	U U U U U	1 1 1 1 1
Benzenc Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Tot	e s al	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	U U U U U U	1 1 1 1 1
Benzenc Toluene Ethylbenzenc m_p-Xylenes o-Xylene Xylenes, Tota Total BTEX	e s al	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	U U U U U U U	1 1 1 1
Benzenc Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Tot Total BTEX	e s al	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 Limits	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	U U U U U U	1 1 1 1 Flag
Benzenc Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Tota Total BTEX Surrogate 1,4-Difluorol	e s al	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401 % Recovery 99	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 Limits 70 - 130	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg Units	06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10 O6.26.2020 03:10	U U U U U U	1 1 1 1 Flag



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id: S-3 0-1 ⁺		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-005		Date Collect	ed: 06.24.202	20 13:05	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seg Number: 3130200		Date Prep: 0	6,26.2020 08	:41				
		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	8.92	9.88	0.350	mg/kg	06.26.2020 14:38	J	1
Analytical Method: TPH by SW8015 Me	od				Prep I	vfethod: 8015		
Analysi: CAC		% Moist:			Tech:	CAC		
Sea Number: 3130037		Date Pren: 00	5.25.2020 16	:48				
Seq Humber. 5150037		Pren seg: 7	706231					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 01:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 01:43	υ	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 01:43	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 01:43	Ŭ	
Surrogate		% Recovery		Limits	Units	Analysis Date	9	Flag
Surrogate 1-Chlorooctane		% Recovery 90		Limits 70 - 135	Units %	Analysis Date	9	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 90 93		Limits 70 - 135 70 - 135	Units % %	Analysis Date	•	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 90 93		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analytical Method: BTEX by EPA 8021		% Recovery 90 93 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB	3	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 90 93 % Moist: Data Brani 06	325 2020 16-	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 90 93 % Moist: Date Prep: 06	5.25.2020 16:	Limits 70 - 135 70 - 135 52	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB	;	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77	5.25.2020 16: 106233	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	CAS Number	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result	5.25.2020 16: 206233 MQL	Limits 70 - 135 70 - 135 52 SDL	Units % % Prep M Tech: Units	Analysis Data Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	5.25.2020 16: /06233 MQL 0.00202	Limits 70 - 135 70 - 135 52 52 SDL 0.000489	Units % % Prep M Tech: Units mg/kg	Analysis Date	Flag U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532	5.25.2020 16: 206233 MQL 0.00202 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 0.000489 0.000532 0.000532	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202	Limits 70 - 135 70 - 135 52 52 52 50 0.000489 0.000532 0.000409 0.000409	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes a Xylene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95.47-6	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0 000406	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 52 52 0.000489 0.000532 0.000409 0.000760 0.000406	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 52 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 0.000489 0.000532 0.000409 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag ປ ປ ບ ບ ບ ບ ບ ບ ບ	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 90 93 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep M Tech: Units Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	5.25.2020 16: 206233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate 1,4-Difluorobenzene 4, Burnefloure/burn	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 90 93 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	5.25.2020 16: 706233 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 52 52 52 52 0.000489 0.000532 0.000409 0.000760 0.000406 0.000400 0.000400 0.000400 0.000400 0.000400 0.0000400 0.0000400 0.00000000	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	Flag U U U U U U U U U	Flag Dif Factor



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id: S-31.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-006		Date Collect	ed: 06.24.202	20 13:08	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seg Number: 3130200		Date Prep: 0	5.26.2020 08	:41				
×		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.43	9.84	0.348	mg/kg	06.26.2020 14:45)	1
Analytical Method: TPH by SW8015 Mo	d				Prep I	Method: 8015		
Analyst CAC		% Moist:			Tech:	CAC		
Sag Number: 2120027		Date Pren: 06	5.25.2020 16:	48				
sed Number, STS0057		Prep sea: 77	706231					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 02:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26,2020 02:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 02:04	U	Ŧ
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 02:04	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
Surrogate 1-Chlorooctane		% Recovery 89		Limits 70 - 135	Units %	Analysis Date	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 89 92		Limits 70 - 135 70 - 135	Units % %	Analysis Date	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		% Recovery 89 92		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Data Aethod: 5035A	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 89 92 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Acthod: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seg Number: 3130038		% Recovery 89 92 % Moist: Date Prep: 06	.25.2020 16:	Limits 70 - 135 70 - 135 52	Units % Prep M Tech:	Analysis Data Aethod: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77	.25.2020 16: 06233	Limits 70 - 135 70 - 135 52	Units % Prep N Tech:	Analysis Data Aethod: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	CAS Number	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result	.25.2020 16: 06233 MQL	Limits 70 - 135 70 - 135 52 SDL	Units % Prep N Tech: Units	Analysis Data Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result	.25.2020 16: 06233 MQL 0.00199	Limits 70 - 135 70 - 135 52 52 SDL 0.000483	Units % Prep M Tech: Units mg/kg	Analysis Data Aethod: 5035A MAB Analysis Date 06.26.2020 03:53	e Flag U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	.25.2020 16: 06233 MQL 0.00199 0.00199	Limits 70 - 135 70 - 135 52 52 52 50 8DL 0.000483 0.000525	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Bthylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199	Limits 70 - 135 70 - 135 52 52 52 50 0.000483 0.000525 0.000404 0.000525	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47 4	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000749 <0.000749	0.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00398	Limits 70 - 135 70 - 135 52 52 52 50 0.000483 0.000525 0.000404 0.000749 0.000401	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Bthylbenzene m_p-Xylenes o-Xylene Xulanes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	0.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 50 0000483 0.000525 0.000404 0.000749 0.000401 0.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U U	Flag Dil Factor 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 50.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U U U U U	Flag Dil Factor 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Bthylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	0.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Bthylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 92 92 92 % Moist: Date Prep: 060 060 Prep seq: 77 77 Result <0.000483	.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 50 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 0.000401 Limits	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1 5 1 5
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Bthylbenzene m_p-Xylenes o-Xylene, Total Total BTEX Surrogate 1,4-Difluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.00040000000000000000000000000	0.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Data Aethod: 5035A MAB 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	Flag U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1 1 5



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id:	S-4 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample I	d: 665605-007		Date Collect	ed: 06.24.20	20 13:14	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by I	EPA 300/300.1				Prep 1	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number	2120200		Date Pren: 0	6.26.2020 08	:41				
Seq Number.	3130200		Pren seg: 7	706226	• • •				
Paramete	1 *	CAS	Result	MOL	SDL	Units	Analysis	Flag	Dil Factor
Chlouida	• 	Number	0.52	0.88	0.350	ma/ka	06 26 2020 14:53		1
Chiorate		10887-00-0	7,34	7.60	0,550	ing Kg	00.20.2020 11.35	5	·
Analytical Me	thod: TPH by SW8015 Mod	1				Prep M	Method: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
Sea Number:	3130037		Date Prep: 06	5.25.2020 16	48				
			Prep seq: 7	706231					
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	inge Hydrocarbons (GRO)	PHC610	<13.9	50.2	13.9	mg/kg	06.26.2020 02:24	U	1
Diesel Rang	ge Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	06.26.2020 02:24	U	1
Motor Oil Ra	nge Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	06.26.2020 02:24	U	1
Total TPH		PHC635	<11.5		11.5	mg/kg	06,26.2020 02:24	U	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
1-Chlorooc	tane		88		70 - 135	%			
o-Terpheny	1		92		70 - 135	%			
Analytical Me	thod: BTEX by EPA 8021					Prep N	lethod: 5035A		
Analytical Met Analyst:	thod: BTEX by EPA 8021 MAB		% Moist:			Prep N Tech:	Aethod: 5035A MAB		
Analytical Met Analyst: Seq Number:	thod: BTEX by EPA 8021 MAB 3130038		% Moist: Date Prep: 06	5.25.2020 16:	52	Prep N Tech:	Aethod: 5035A MAB		
Analytical Me Analyst: Seq Number:	thod: BTEX by EPA 8021 MAB 3130038		% Moist: Date Prep: 06 Prep seq: 77	5.25.2020 16: 206233	52	Prep N Tech:	Aethod: 5035A MAB		
Analytical Met Analyst: Seq Number: Parameter	thod: BTEX by EPA 8021 MAB 3130038	CAS Number	% Moist: Date Prep: 06 Prep seq: 77 Result	5.25.2020 16: 06233 MQL	52 SDL	Prep M Tech: Units	Aethod: 5035A MAB Analysis Date	Flag	Dil Factor
Analytical Met Analyst: Seq Number: Parameter Benzene	thod: BTEX by EPA 8021 MAB 3130038	CAS Number 71-43-2	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484	5.25.2020 16: 06233 MQL 0.00199	52 SDL 0.000484	Prep M Tech: Units mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15	Flag	Dil Factor
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene	thod: BTEX by EPA 8021 MAB 3130038	CAS Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526	5.25.2020 16: 06233 MQL 0.00199 0.00199	52 SDL 0.000484 0.000526	Prep N Tech: Units mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15	Flag U U	Dil Factor 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen	thod: BTEX by EPA 8021 MAB 3130038	CAS Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199	52 SDL 0.000484 0.000526 0.000405	Prep N Tech: Units mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15	Flag U U U	Dil Factor
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene	thod: BTEX by EPA 8021 MAB 3130038	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47 6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000751 0.000401	Prep M Tech: Units mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag U U U U	Dil Factor
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene Xylene	thod: BTEX by EPA 8021 MAB 3130038 re	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000405 <0.000405 <0.000401 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000751 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag U U U U U U	Dil Factor 1 1 1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene Xylenes, To Total BTEX	thod: BTEX by EPA 8021 MAB 3130038 re rs tal	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000405 <0.000405 <0.000401 <0.000401 <0.000401 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000401 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag U U U U U U U U	Dil Factor 1 1 1 1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene Xylenes, To Total BTEX	thod: BTEX by EPA 8021 MAB 3130038 ne rs	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000401 <0.000401 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000401 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag บ บ บ บ บ บ	Dil Factor 1 1 1 1 1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene Xylenes, To Total BTEX Surrogate	thod: BTEX by EPA 8021 MAB 3130038 re rs tal	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000401 0.000401 0.000401 0.000401 Limits	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag บ บ บ บ บ บ	Dil Factor 1 1 1 1 1 1 1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene Xylenes, To Total BTEX Surrogate 1,4-Difluore	thod: BTEX by EPA 8021 MAB 3130038 ne rs tal	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	52 SDL 0.000484 0.000526 0.000405 0.000401 0.000401 0.000401 Limits 70 - 130	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15 06.26.2020 04:15	Flag U U U U U U U U	Dil Factor 1 1 1 1 1 1 1 5 1



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Arabian 30-19 1H

Sample Id: S-4 I.5 R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-008		Date Collecte	ed: 06.24.202	20 13:16	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seg Number: 3130200		Date Prep: 0	5.26.2020 08	:41				
1		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.57	9.98	0.353	mg/kg	06.26.2020 15:02	J	1
Analytical Method: TPH by SW8015 Mor	đ				Prep 1	vlethod: 8015		
Analyst: CAC	_	% Moist:			Tech:	CAC		
Analyst. CAC		Date Bran: Of	5 25 2020 16	-48				
Seq Number: 3130037		Date Flep. 00	06221	.40				
		Prep seq: //	00231					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26,2020 02:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 02:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 02:45	U	l
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 02:45	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
Surrogate		% Recovery 91		Limits 70 - 135	Units %	Analysis Dat	e	Flag
Surrogate 1-Chiorooctane o-Terphenyl		% Recovery 91 98		Limits 70 - 135 70 - 135	Units % %	Analysis Dat	e	Flag
Surrogate 1-Chiorooctane o-Terphenyl Analytical Mathada PTEX by ERA 2021		% Recovery 91 98		Limits 70 - 135 70 - 135	Units % % Pren N	Analysis Dat Aethod 5035A	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		% Recovery 91 98 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M	Analysis Dat Acthod: 5035A MAB	e	Flag
Surrogate 1-Chiorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 91 98 % Moist:	25 2020 16:	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Dat Aethod: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77	.25.2020 16: 06233	Limits 70 - 135 70 - 135 52	Units % % Prep M Tech:	Analysis Dat Aethod: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038	CAS	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77	.25.2020 16: 06233	Limits 70 - 135 70 - 135 52	Units % % Prep N Tech:	Analysis Dat Aethod: 5035A MAB Analysis	e	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	CAS Number	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result	.25.2020 16: 06233 MQL	Limits 70 - 135 70 - 135 52 SDL	Units % Prep M Tech: Units	Analysis Dat Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488	.25.2020 16: 06233 MQL 0.00201	Limits 70 - 135 70 - 135 52 52 SDL 0.000488	Units % % Prep N Tech: Units mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36	Flag U	Flag Dil Factor
Surrogate I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531	.25.2020 16: 06233 MQL 0.00201 0.00201	Limits 70 - 135 70 - 135 52 52 50L 0.000488 0.000531	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36	Flag U U	Flag Dil Factor
Surrogate I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzenc	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00201	Limits 70 - 135 70 - 135 52 52 50 800 800 800 800 800 800 800 800 800	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U	Flag Dil Factor
Surrogate I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47-	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.002006	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402	Limits 70 - 135 70 - 135 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U	Flag Dil Factor I I I I
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xidanea Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 52 52 52 52 52 52 0.000488 0.000531 0.000409 0.000758 0.000406 0.000406	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U U U	Flag Dil Factor i i l l l l l
Surrogate 1-Chiorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzenc m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406 <0.000406 <0.000406	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U U U U U U	Flag Dil Factor i i 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000406 <0.000406 <0.000406	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB MAB 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U U U U U	Flag Dil Factor i i 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 52 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U U U U	Flag Dil Factor i i 1 1 1 1 Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate 1,4-Difluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 91 98 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406 <0.000406 <0.000406 <0.000406	.25.2020 16: 06233 MQL 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Acthod: 5035A MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	Flag U U U U U U U	Flag Dil Factor i i 1 1 1 Flag



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id: S-5 0.1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-009		Date Collect	ed: 06.24.20	20 13:20	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seg Number: 3130200		Date Prep: 0	6.26.2020 08	:41				
		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	10.1	9.98	0.353	mg/kg	06.26.2020 15:21		1
Analytical Method: TPH by SW8015 Mo	od				Prep l	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Sea Number: 3130037		Date Prep: 00	5.25.2020 16	:48				
Seq Pathoer. 5150057		Prep sea: 72	706231					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 03:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 03:05	U	1
Motor Oli Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 03:05	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06,26.2020 03:05	Ų	
								Flog
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
Surrogate 1-Chlorooctane		% Recovery 90		Limits 70 - 135	Units %	Analysis Dat	e	Flag
Surrogate i-Chlorooctane o-Terphenyi		% Recovery 90 93		Limits 70 - 135 70 - 135	Units % %	Analysis Dat	e	Flag
Surrogate i-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		% Recovery 90 93		Limits 70 - 135 70 - 135	Units % % Prep M	Analysis Dat Aethod: 5035A	e	Flag
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 90 93 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Dat Aethod: 5035A MAB	e	Flag
Surrogate I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB See Number: 3130038		% Recovery 90 93 % Moist: Date Prep: 06	5.25.2020 16:	Limits 70 - 135 70 - 135 52	Units % % Prep M Tech:	Analysis Dat Aethod: 5035A MAB	e	Fiag
Surrogate i-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77	5.25.2020 16: 06233	Limits 70 - 135 70 - 135 52	Units % % Prep N Tech:	Analysis Dat Aethod: 5035A MAB	e	Fiag
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	CAS Number	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result	5.25.2020 16: 06233 MQL	Limits 70 - 135 70 - 135 52 SDL	Units % % Prep M Tech: Units	Analysis Dat Aethod: 5035A MAB Analysis Date	e Flag	Fiag Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 106233 MQL 0.00199	Limits 70 - 135 70 - 135 52 52 SDL 0.000483	Units % % Prep M Tech: Units mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 04:57	e Flag U	Dil Factor
Surrogate I-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	5.25.2020 16: 06233 MQL 0.00199 0.00199	Limits 70 - 135 70 - 135 52 52 52 50 80 80 80 80 80 80 80 80 80 80 80 80 80	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57	Flag U U	Dil Factor
Surrogate I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199	Limits 70 - 135 70 - 135 52 52 52 0.000483 0.000525 0.000404 2 000526	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U	Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05-47 (% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000749	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00398	Limits 70 - 135 70 - 135 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000749	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U U	Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Videose Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Aethod: 5035A MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U U U U U U U	Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U U U U U U U	Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 Limits	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U U U U U U U	Dil Factor
Surrogate i-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 0.000401 Limits 70 - 130	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Analysis Dat Method: 5035A MAB 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	Flag U U U U U U U U U	Dil Factor 1 1 1 1 1 Flag
Surrogate I-Chlorooctane o-Terphenyi Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xyienes, Total Total BTEX Surrogate I,4-Difluorobenzene 4. Bromofluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.25.2020 16: 06233 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 52 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 Maalysis Date	Flag U U U U U U U U U U	Dil Factor



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id.	8 5 11		Matrix	Soil		Samr	le Depth:		
Sample Iu.	3-3-2		Data Callant	ad. 06 34 30	20 12.22	Deta	Paggivad: 06.25.20	20.15	15
Lab Sample Id	: 665605-010		Date Collect	ea: 00.24.20.	20 15:25	Date	Received, 00.23.20	20 13.	TJ
Analytical Me	thod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130200		Date Prep: 0	6.26.2020 08	:41				
			Prep seq: 7	706226					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	8.88	9,92	0.351	mg/kg	06.26.2020 15:27	J	1
Analytical Met	hod: TPH by SW8015 Mc	od				Prep l	Method: 8015		
Analyst	CAC		% Moist:			Tech:	CAC		
Sea Number	2120027		Date Pren: 00	6.25.2020 16	:48				
ocy runnoer.	5150057		Pren seg: 7	706231					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 03:26	U	I
Diesel Rang	e Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 03:26	U	1
Motor Oil Rar	ige Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 03:26	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 03:26	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	•	Fiag
1-Chlorooct o-Terphenyl	anc		84 88		70 - 135 70 - 135	% %			
Analytical Met	hod: BTEX by EPA 8021					Prep M	Aethod: 5035A		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130038		Date Prep: 06	5.25.2020 16:	52				
•			Prep seq: 77	706233					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene		71-43-2	<0.000485	0.00200	0.000485	mg/kg	06.26.2020 05:19	U	1
Toluene		108-88-3	<0.000527	0.00200	0.000527	mg/kg	06.26.2020 05:19	U	1
Ethylbenzen	e	100-41-4	<0.000405	0.00200	0.000405	mg/kg	06.26.2020 05:19	U	1 1
m_p-Xylene	S	179001-23-1	<0.000752 <0.000402	0.00399	0.000752	mg/kg mg/kg	06.20.2020 03:19	0	1
0-Aylenee Tot	al	93-47-0 1330-20-7	<0.000402	0.00200	0.000402	mg/kg	06.26.2020 05:19	Ŭ	2
Total BTEX		1000 200 1	<0.000402		0.000402	mg/kg	06.26.2020 05:19	U	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
1 d-Diffuero	henzene		90		70 - 130	%			
4-Bromofluc	probenzene		103		70 - 130	%			



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-5 3'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	l: 665605-011		Date Collect	ed: 06.24.20	20 13:25	Date	Received: 06.25.20	20 15:	:45
Analytical Me Analyst: Seq Number:	thod: Inorganic Anions by MAB 3130201	EPA 300/300.1	% Moist: Date Prep: 0	6.26.2020 08	:45	Prep Tech	Method: E300P : MAB		
			Prep seq: 7	706227					
Parameter	•	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	6.67	9.92	0.351	mg/kg	06.26.2020 16:03	J	1
Analytical Me	thod: TPH by SW8015 Mod	1				Prep 1	Method: 8015		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130203		Date Prep: 0	6.26.2020 10:	:05				
1			Prep seq: 7	706261					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Fiag	Dil Factor
Gasoline Ra Diesel Rang Motor Oil Rat Total TPH	nge Hydrocarbons (GRO) e Organics (DRO) nge Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835 PHC635	<13.9 <11.5 <11.5 <11.5	50.2 50.2 50.2	13.9 11.5 11.5 11.5	mg/kg mg/kg mg/kg mg/kg	06.26.2020 12:24 06.26.2020 12:24 06.26.2020 12:24 06.26.2020 12:24	บ บ บ บ	1 1 1
Surrogate			% Recovery		Limits	Units	Analysis Date	9	Flag
l-Chlorooct o-Terphenyl	ane		93 96		70 - 135 70 - 135	% %			
Analytical Met	hod: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number	3130199		Date Prep: 06	5.26.2020 09:	55				
504 1 1 1 1 1 1 1 1 1 1			Prep seq: 77	06236					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX	c	71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	<0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	0.00199 0.00199 0.00199 0.00398 0.00199	0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46	U U U U U U U	1 1 1
Surrogate 1,4-Difluoro 4-Bromofluo	benzene robenzene		% Recovery 99 105		Limits 70 - 130 70 - 130	Units % %	Analysis Date		Flag



Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id:	S-5 3.5' R		Matrix:	Soit		Samp	le Depth:		
Lab Sample Id:	: 665605-012		Date Collecte	ed: 06.24.202	20 13:28	Date	Received: 06.25.20	20 15:	45
Analytical Met	hod: Inorganic Anions by E	PA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number	3130201		Date Prep: 00	5.26.2020 08:	:45				
Seq ramoer.	, ,		Prep seq: 7	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	11.8	10.1	0.357	mg/kg	06.26.2020 16:21		1
Analytical Meth	bod TPH by SW8015 Mod					Prep N	victhod: 8015		
Analytical Met	MAD		% Moist			Tech	MAB		
Analyst:	2120202		Date Pren: Of	5 26 2020 10:	05				
Seq Number:	3130203		Date Hep. W	106761					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Par	are Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 13:25	U	1
Diesel Range	c Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 13:25	U	1
Motor Oil Ran	ge Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 13:25	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 13:25	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	2	Flag
Surrogate	ine		% Recovery 90		Limits 70 - 135	Units %	Analysis Date	2	Flag
Surrogate 1-Chloroocta o-Terphenyl	inc		% Recovery 90 94		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Fiag
Surrogate 1-Chloroocta o-Terphenyl	inc		% Recovery 90 94		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Date Aethod: 5035A	2	Flag
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth	ine 10d: BTEX by EPA 8021		% Recovery 90 94 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Date Acthod: 5035A MAB	2	Flag
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth Analyst:	nc nod: BTEX by EPA 8021 MAB		% Recovery 90 94 % Moist: Date Prep: 06	. 26 2020 09:	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number:	nne nod: BTEX by EPA 8021 MAB 3130199		% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77	.26.2020 09: 06236	Limits 70 - 135 70 - 135 55	Units % % Prep M Tech:	Analysis Date Method: 5035A MAB	2	Flag
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter	ine nod: BTEX by EPA 8021 MAB 3130199	CAS Number	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result	.26.2020 09: 06236 MQL	Limits 70 - 135 70 - 135 55 55 SDL	Units % % Prep M Tech: Units	Analysis Data Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene	ane nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486	.26.2020 09:. 06236 MQL 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 50 8DL	Units % % Prep M Tech: Units mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.26.2020 16:07	Flag U	Flag Dil Factor
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene	ane 10d: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529	.26.2020 09: 06236 MQL 0.00200 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 50 80 80 80 80 80 80 80 80 80 80 80 80 80	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07	Flag U U	Flag Dil Factor
Surrogatc 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene	inc 10d: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 50 50 50 50 50 50 50 50 50	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	ne nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	ane nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1230-20-7	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000755	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00401 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U U U U	Flag Dil Factor 1 1 1 1 1
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total Stream	ne nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	noc nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 94 94 94 94 % Moist: Date Prep: 06 97 Date Prep: seq: 77 77 Result <0.000486	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00401 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 50 50	Units % % Prep M Tech: Units Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate	noc nod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 94 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00401 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:0	Flag U U U U U U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total Stere Surrogate 1,4-Difluorol	noc nod: BTEX by EPA 8021 MAB 3130199 s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 90 94 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000486	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00401 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	Flag U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1

Received by OCD: 12/10/2020 9:22:26 AM

•



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id: S-6 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-013		Date Collect	ed: 06.24.20	20 13:32	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Sea Number: 3130201		Date Prep: 0	6.26.2020 08	:45				
Bed Mulloci. 5150201		Prep seq: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	11.0	10.1	0.357	mg/kg	06.26.2020 16:27		
Analytical Method: TPH by SW8015 Mc	nd				Prep 1	Method: 8015		
Analysis MAD		% Moist			Tech.	MAB		
Analyst: MAD		Data Brany Af	5 26 2020 10	·05	10011.	1712 18-2		
Seq Number: 3130203		Date Prep: 00	706061	.05				
		Prep seq: 7	/00201					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49,8	13.8	mg/kg	06.26.2020 13:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 13:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 13:46	U	1
Total TPH	PHC635	<11.4		11.4	mg/Kg	06,26.2020 13:46	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 94 95		Limits 70 - 135 70 - 135	Units % %	Analysis Dat	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 94 95		Limits 70 - 135 70 - 135	Units % %	Analysis Dat	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		% Recovery 94 95		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Dat Method: 5035A	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Recovery 94 95 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Dat Method: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199		% Recovery 94 95 % Moist: Date Prep: 06	5.26.2020 09:	Limits 70 - 135 70 - 135 55	Units % % Prep N Tech:	Analysis Dat Method: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199		% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77	5.26.2020 09: 706236	Limits 70 - 135 70 - 135 55	Units % % Prep N Tech:	Analysis Dat Method: 5035A MAB	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter	CAS Number	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result	5.26.2020 09: 06236 MQL	Limits 70 - 135 70 - 135 55 55	Units % Prep N Tech: Units	Analysis Dat Method: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene	CAS Number 71-43-2	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.26.2020 09: 706236 MQL 0.00199	Limits 70 - 135 70 - 135 55 55 SDL 0.000483	Units % % Prep N Tech: Units mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27	Flag U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzenc Toluene	CAS Number 71-43-2 108-88-3	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	5.26.2020 09: 706236 MQL 0.00199 0.00199	Limits 70 - 135 70 - 135 55 55 SDL 0.000483 0.000525	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	5.26.2020 09: 706236 MQL 0.00199 0.00199 0.00199	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % Prep N Tech: Units mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes Verter	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47 4	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	5.26.2020 09: 06236 MQL 0.00199 0.00199 0.00199 0.00398 0.00398	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % Prep N Tech: Units mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene T-tol Xelene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1320-20-7	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	5.26.2020 09: 706236 MQL 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 55 55 55 55 55 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U U U	Flag Dil Factor I I 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzenc Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	5.26.2020 09: 706236 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	5.26.2020 09: 706236 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 55 55 55 55 55 0.000483 0.000525 0.000404 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U U U U U	Flag Dil Factor 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 94 95 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.26.2020 09: 706236 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 0.000401 U.000401	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene n,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate 1,4-Difluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 94 95 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	5.26.2020 09: 06236 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401 0.000401 Limits 70 - 130	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Dat Method: 5035A MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	Flag U U U U U U U U	Flag Dil Factor 1 1 1 1 1 5 Flag



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id:	S-6 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	: 665605-014		Date Collecto	ed: 06.24.202	20 13:36	Date	Received: 06.25.20	20 15:	45
Analytical Met	hod: Inorganic Anions by E	PA 300/300.1				Prep l	Method: E300P		
Analyst:	МАВ		% Moist:			Tech:	MAB		
Sog Number	2120201		Date Pren [.] 06	5.26.2020 08	:45				
seq Number.	3130201		Pren sed: 7	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	10.2	10.0	0,355	mg/kg	06.26.2020 16:33		1
Analytical Met	hod: TPH by SW8015 Mod					Prep 1	Method: 8015		
Analyst	MAR		% Moist:			Tech:	MAB		
Gaa Namban	2120002		Data Pren: Of	26 2020 10-	05				
Seq Number:	3130203		Date Flep. 00	000001	00				
			Prep seq: //	00201					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.26.2020 14:17	U	1
Diesel Range	e Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 14:17	U	1
Motor Oil Ran	ige Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 14:17	U	I
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 14:17	0	
Surrogate			% Recovery		Limits	Units	Analysis Date	2	Flag
Surrogate 1-Chloroocta	ane		% Recovery 89		Limits 70 - 135	Units %	Analysis Date	2	Flag
Surrogate 1-Chloroocta o-Terphenyl	ane		% Recovery 89 92		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Flag
Surrogate 1-Chloroocta o-Terphenyl			% Recovery 89 92		Limits 70 - 135 70 - 135	Units % %	Analysis Date	3	Flag
Surrogate I-Chloroocta o-Terphenyl Analytical Metl	ane hod: BTEX by EPA 8021		% Recovery 89 92		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Date Acthod: 5035A	2	Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Metl Analyst:	ane hod: BTEX by EPA 8021 MAB		% Recovery 89 92 % Moist:		Limits 70 - 135 70 - 135	Units % Prep N Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number:	ane hod: BTEX by EPA 8021 MAB 3130199		% Recovery 89 92 % Moist: Date Prep: 06	.26.2020 09:	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Dato Aethod: 5035A MAB	2	Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number:	ane hod: BTEX by EPA 8021 MAB 3130199		% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77	.26.2020 09: 06236	Limits 70 - 135 70 - 135	Units % % Prep N Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result	.26.2020 09: 06236 MQL	Limits 70 - 135 70 - 135 55 55	Units % Prep M Tech: Units	Analysis Date Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate I-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 50L	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:47	Flag U	Flag Dil Factor
Surrogate I-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 50 0.000485 0.000527	Units % Prep N Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000405	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes a Value	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95 47 6	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000485 <0.000405 <0.000405 <0.000405 <0.000405	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00399	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U	Flag Dil Factor I I I I I
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Totel Yulene	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U U U	Flag Dil Factor 1 1 1 1 1
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U U U U	Flag Dil Factor 1 1 1 1
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U U U U	Flag Dil Factor 1 1 1 1
Surrogate 1-Chloroocta o-Terphenyl Analytical Metl Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX Surrogate	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total Sirrogate 1,4-Difluorol	ane hod: BTEX by EPA 8021 MAB 3130199	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 89 92 % Moist: Date Prep: 06 Prep seq: 77 Result 7 <0.000485	.26.2020 09: 06236 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	Flag U U U U U U U	Flag Dil Factor 1 1 1 1 1 Flag



•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

			0.1		G	1. D. 41.		
Sample Id: S-7 0-1'		Matrix;	Soil		Samp	he Depth:		
Lab Sample Id: 665605-015		Date Collect	ed: 06.24.20	20 13:40	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic A	nions by EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Sea Number: 3130201		Date Prep: 0	6.26.2020 08	3:45				
		Prep seq: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	10.1	9.94	0.352	mg/kg	06.26.2020 16:39		1
Analytical Method: TPH by SW	/8015 Mod				Prep l	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Sag Number: 2120202		Date Pren: 00	6.26.2020 10	:05				
3eq Munder. 3130203		Bran cogy 7	706261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Constinue Proventier de marche		~12.0	50.2	13.0	ma/ka	06 26 2020 14-38		
Diesel Range Organics (DRO)	Cloc28DRO	<11.5	50.2	11.5	mg/kg	06.26.2020 14:38	Ŭ	1
Motor Oil Range Hydrocarbons (MR	O) PHCG2835	<i 1.5<="" td=""><td>50.2</td><td>11.5</td><td>mg/kg</td><td>06.26.2020 14:38</td><td>U</td><td>1</td></i>	50.2	11.5	mg/kg	06.26.2020 14:38	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	06.26.2020 14:38	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		90		70 - 135	%			
o-Terphenyl		93		70 - 135	%			
Analytical Method: BTEX by El	PA 8021				Prep N	vlethod: 5035A		
Analysis MAR		% Moist:			Tech:	MAB		
Analysi, MAD		Data Broni 06	5 26 2020 0Q-	.55	100111			
Seq Number: 3130199		Date riep. 00	1,20,2020 07.	.00				
		Prep seq: //	00230					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000485	0.00200	0.000485	mg/kg	06.26.2020 17:08	U	1
Toluene	108-88-3	<0.000527	0.00200	0.000527	mg/kg	06.26.2020 17:08	U	1
Ethylbenzene	100-41-4	<0.000405	0.00200	0.000405	mg/kg	06.26.2020 17:08	U	1
m,p-Xylenes	1/9001-23-1 05 17 6	<0.000752 <0.000407	0.00399	0.000732	mø/ko	06.26.2020 17:08	IJ	1
o-Aylene Total Xvlenes	1330-20-7	< 0.000402	0.00200	0.000402	mg/kg	06,26.2020 17:08	Ŭ	•
Total BTEX		<0.000402		0.000402	mg/kg	06.26.2020 17:08	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
. 14.Difluorobenzene		104		70 - 130	%			
4-Bromofluorobenzene		102		70 - 130	%			



665605

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id: S-7 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-016		Date Collect	ed: 06.24.20	20 13:44	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions I	by EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech	MAB		
Seg Number: 3130201		Date Prep: 0	6,26,2020 08	:45				
		Prep seq: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.73	9,96	0.353	mg/kg	06.26.2020 16:57	ł	1
Analytical Method: TPH by SW8015 N	Aod				Prep l	vfethod: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Sea Number: 3130203		Date Pren: 00	5.26.2020 10	:05				
5150205		Prep seg: 77	706261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 14:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 14:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11,4	49.9	[1.4	mg/kg	06.26.2020 14:58	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 14:58	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 86 89		Limits 70 - 135 70 - 135	Units % %	Analysis Date	e	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 86 89		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802	ī	% Recovery 86 89		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Date Acthod: 5035A	3	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB	1	% Recovery 86 89 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199	1	% Recovery 86 89 % Moist: Date Prep: 06	.26.2020 09:	Limits 70 - 135 70 - 135 55	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199	1	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77	5.26,2020 09: 706236	Limits 70 - 135 70 - 135 55	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter	1 CAS Number	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result	.26.2020 09: 06236 MQL	Limits 70 - 135 70 - 135 55 55	Units % % Prep N Tech: Units	Analysis Date Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene	I CAS Number 71-43-2	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481	5.26.2020 09: 06236 MQL 0.00198	Limits 70 - 135 70 - 135 55 55 55 55	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 17:28	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene	1 CAS Number 71-43-2 108-88-3	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522	5.26,2020 09: 06236 MQL 0.00198 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 50 0.000481 0.000522 0.000522	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene	1 CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000402	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes a Value	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47 - 6	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000422 <0.0004402 <0.000746 <0.000746	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00396	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg	Analysis Date Analysis MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xuleres	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399 <0.000399 <0.000399	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U U U U	Flag Dil Factor 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 86 89 % Moist: Date Prep: 06 06 Prep seq: 77 Result <0.000481	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00396 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 86 89 80 89 89 % Moist: Date Prep: 06 06 Prep seq: 77 Result <0.000481	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 50 50 50 50 50 50 50 50 50	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date Analysis MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate 1,4-Difluorobenzene A Down of the second secon	1 CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 86 89 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399 <0.000399 <0.000399 <0.000399 <0.000399 <0.000399 <0.000399	5.26.2020 09: 06236 MQL 0.00198 0.00198 0.00198 0.00396 0.00198	Limits 70 - 135 70 - 135 55 55 55 55 55 55 55 55 55 55 55 55 5	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	Flag U U U U U U U U U	Flag Dil Factor

Released to Imaging: 9/20/2022 1:02:46 PM



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id: S-8 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-017		Date Collect	ed: 06.24.20	20 13:30	Date	Received: 06.25.20	20 15:	:45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech	MAB		
See Number: 3130201		Date Pren [.] ()	6.26.2020 08	:45				
Seq Number. 3130201		Prep sea: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	10.6	9.98	0.353	mg/kg	06.26.2020 17:03		1
Analytical Method: TPH by SW8015 Mo	d				Prep l	Method: 8015		
Analysis MAR		% Moist:			Tech.	MAB		
Cas Number 2120202		Date Pren: Of	5 26 2020 10	·05				
Seq Number: 3130205		Date Hep. W	706261					
		Prep seq: /	/00201					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 15:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 15:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 15:19	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 15:19	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		88		70 - 135	%			
o-Terphenyl		91		70 - 135	%			
Analytical Method: BTEX by EPA 8021					Prep M	Method: 5035A		
Analyst MAR		% Moist:			Tech:	MAB		
Sag Number: 2120305		Date Pren: 06	.29.2020.09:	27				
beg Mulloci. 5150505		Pren sea 77	06338					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000485	0.00200	0.000485	mg/kg	06.29.2020 14:46	U	1
Toluene	108-88-3	<0.000527	0.00200	0.000527	mg/kg	06.29.2020 14:46	U	1
Ethylbenzene	100-41-4	<0.000405	0.00200	0.000405	mg/kg	06.29.2020 14:46	U	1
m,p-Xylenes	179601-23-1	< 0.000752	0.00399	0.000752	mg/kg	06.29.2020 14:46	U	1
o-Xylene	95-47-6	< 0.000402	0.00200	0.000402	mg/kg	06.29.2020 14:46	U	1
Total Xylenes	1330-20-7	<0.000402		0.000402	mg/kg	06,29,2020 14:46	U TT	
Total BTEX		<0.000402		0.000402	mg/kg	vo.29.2020 14:40	U	
Surrogate		% Recovery		Limits	Units	Analysis Date		Fiag
1.4-Difluorobenzene		100		70 - 130	%			
4-Bromofluorobenzene		101		70 - 130	%			



Page 95 of 124

Certificate of Analytical Results 665605

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

	S-8 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	: 665605-018		Date Collecte	ed: 06.24.202	20 13:33	Date	Received: 06.25.20)20 15:	45
Analytical Met	thod: Inorganic Anions by I	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number:	3130201		Date Prep: 00	5.26.2020 08	:45				
			Prep seq: 7	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	9,98	9.96	0.353	mg/kg	06.26.2020 17:08		1
Analytical Met	hod: TPH by SW8015 Mod	l				Prep I	Method: 8015		
Analyst	MAR		% Moist:			Tech:	MAB		
Sag Number	2120202		Data Pron: Af	5 26 2020 10·	05	10011			
Seq Number:	3130203		Date Hep. 00	106261	05				
			Prep seq: //	00201					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Rai	nge Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 15:40	U	1
Diesel Range	e Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 15:40	U	1
Motor Oil Ran	ge Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 15:40	U	I
Total TPH		PHC635	<11.4		11,4	mg/kg	00.20.2020 15.40	0	
Surrogate			% Recovery		Limits	Units	Analysis Date	e	Flag
l-Chloroocta	ane		87		70 - 135	%			
o-Terphenyl			91		70 - 135	%			
Analytical Meth	nod: BTEX by EPA 8021								
						Prep N	fethod: 5035A		
Analyst	MAB		% Moist:			Prep N Tech:	fethod: 5035A MAB		
Analyst: Sea Number:	MAB 3130305		% Moist: Date Prep: 06	.29.2020 09:	27	Prep M Tech:	fethod: 5035A MAB		
Analyst: Seq Number:	MAB 3130305		% Moist: Date Prep: 06 Prep seg: 77	.29.2020 09: 06338	27	Prep N Tech:	fethod: 5035A MAB		
Analyst: Seq Number: Parameter	MAB 3130305	CAS Number	% Moist: Date Prep: 06 Prep seq: 77 Result	.29.2020 09: 06338 MQL	27 SDL	Prep M Tech: Units	Aethod: 5035A MAB Analysis Date	Flag	Dil Factor
Analyst: Seq Number: Parameter Benzene	MAB 3130305	CAS Number 71-43-2	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	.29.2020 09: 06338 MQL 0.00202	27 SDL 0.000489	Prep M Tech: Units mg/kg	Analysis Date 06.29.2020 15:06	Flag	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene	MAB 3130305	CAS Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532	.29.2020 09: 06338 MQL 0.00202 0.00202	27 SDL 0.000489 0.000532	Prep M Tech: Units mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06	Flag U U	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202	27 SDL 0.000489 0.000532 0.000409	Prep M Tech: Units mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000760 0.000760	Prep M Tech: Units mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U	Dil Factor 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1230-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000409 <0.000409 <0.000406 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00403 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U U	Dil Factor 1 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toiuene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene:	MAB 3130305 , s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U U U U	Dil Factor 1 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene: Total BTEX	MAB 3130305 s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000406 0.000406 0.000406	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis MAB Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U U U U	Dil Factor 1 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene: Total BTEX Surrogate	MAB 3130305 , s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000406 0.000406 0.000406 0.000406 Limits	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U U U U	Dil Factor 1 1 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene: Total BTEX Surrogate I,4-Difluorob	MAB 3130305 ; s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406 <0.000406 <% Recovery 102	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00403 0.00202	27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406 Limits 70 - 130	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	Flag U U U U U U U	Dil Factor 1 1 1 1 1 1 1

•



Page 96 of 124

Certificate of Analytical Results

665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

pampie ta. 9-9-0-1		Matrix:	Soil		Samp	ole Depth:		
Lab Sample Id: 665605-019		Date Collect	ed: 06.24.20	20 13:24	Date	Received: 06.25.20	20 15:	:45
Analytical Method: Inorganic Anions b	y EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech	: MAB		
Seg Number: 3130201		Date Prep: 0	6.26.2020 08	:45				
		Prep seq: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	9.73	9.90	0.350	mg/kg	06,26,2020 17:14	J	1
Analytical Method: TPH by SW8015 M	Iod				Prep 1	Method: 8015		
Analyst: MAB		% Moist:			Tech	MAB		
Sea Number: 3130203		Date Pren: 0	6.26.2020 10	:05				
500 Humber. 5150205		Pren sea: 7	706261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	49,9	13.9	mg/kg	06.26.2020 16:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 16:00	υ	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 16:00	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06,26,2020 16:00	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	2	Flag
Surrogate		% Recovery		Limits 70 - 135	Units %	Analysis Date	2	Flag
Surrogate 1-Chiorooctane o-Terphenyl		% Recovery 92 97		Limits 70 - 135 70 - 135	Units % %	Analysis Date	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl		% Recovery 92 97		Limits 70 - 135 70 - 135	Units % %	Analysis Date	3	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021	I	% Recovery 92 97		Limits 70 - 135 70 - 135	Units % % Prep M	Analysis Date Aethod: 5035A	3	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB	I	% Recovery 92 97 % Moist:	20, 2020,00-	Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Method: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305	I	% Recovery 92 97 % Moist: Date Prep: 06	5.29.2020 09:	Limits 70 - 135 70 - 135 27	Units % % Prep M Tech:	Analysis Data Method: 5035A MAB	3	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305	I	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77	5.29.2020 09: 706338	Limits 70 - 135 70 - 135 27	Units % % Prep M Tech:	Analysis Data Method: 5035A MAB	2	Flag
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter	CAS Number	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result	5.29.2020 09: 706338 MQL	Limits 70 - 135 70 - 135 27 SDL	Units % Prep M Tech: Units	Analysis Data Method: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene	CAS Number 71-43-2	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000484	5.29.2020 09: 706338 MQL 0.00199	Limits 70 - 135 70 - 135 27 27 SDL 0.000484	Units % % Prep N Tech: Units mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.29.2020 15:27	Flag	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526	5.29.2020 09: 706338 MQL 0.00199 0.00199	Limits 70 - 135 70 - 135 27 27 SDL 0.000484 0.000526	Units % Prep M Tech: Units mg/kg mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.29.2020 15:27 06.29.2020 15:27	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene Selene	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199	Limits 70 - 135 70 - 135 27 SDL 0.000484 0.000526 0.000405 0.000405	Units % Prep M Tech: Units mg/kg mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.29.2020 15:27 06.29.2020 15:27 06 29.2020 15:27	Flag U U U	Flag Dif Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o Xylene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95 47 6	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751 <0.000401	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 SDL 0.000484 0.000526 0.000405 0.000751 0.000751	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg	Analysis Date Method: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U	Flag Dif Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Tolu Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000401 <0.000401	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 SDL 0.000484 0.000526 0.000405 0.000405 0.000751 0.000401	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U U U U	Flag Dif Factor
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000405 <0.000401 <0.000401 <0.000401	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 27 27 27 27 27 27 27 20 27 20 27 20 27 20 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Method: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U U U U U U U U	Flag Dil Factor 1 1 1 1 I I
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000405 <0.000401 <0.000401 <0.000401	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 27 27 27 27 20 27 27 27 27 20 27 20 27 20 27 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Method: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U U U U U U U	Flag Dil Factor 1 1 1 1 I I
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 SDL 0.000484 0.000526 0.000405 0.000405 0.000401 0.000401 0.000401 0.000401 Limits	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date Method: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U U U U U U	Flag Dif Factor 1 1 1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1
Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX Surrogate 1,4-Difluorobenzene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 92 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401 <0.000401	5.29.2020 09: 706338 MQL 0.00199 0.00199 0.00199 0.00398 0.00199	Limits 70 - 135 70 - 135 27 SDL 0.000484 0.000526 0.000405 0.000405 0.000401 0.000401 0.000401 Uimits 70 - 130	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg tunits	Analysis Date Aethod: 5035A MAB 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	Flag U U U U U U U U	Flag Dil Factor



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Date Collected: 66.24.2020 13.27 Date Received: 96.25.2020 15.45 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E500P Analytical Method: Inorganic Anions by EPA 300/300.1 Date Call C2020 08.45 Seq Number: 3130201 Date Result MAB Seq Number: 3130201 Prep Method: End MAB Seq Number: 3130201 Prep Method: End M Prep Method: End Prep Method: End Prep Method: End Prep Method: Prep Method: <th>Sample Id:</th> <th>S-9 1.5' R</th> <th></th> <th>Matrix:</th> <th>Soil</th> <th></th> <th>Samţ</th> <th>le Depth:</th> <th></th> <th></th>	Sample Id:	S-9 1.5' R		Matrix:	Soil		Samţ	le Depth:		
Analytical Method: Ionrgunic Anioms by EPA 300/300.1 Prep Method: E300P Analytical Method: MAB % Moint: Tech: MAB Seq Number: 3130201 Date Prep: C6.26.2020 08:45 Tech: MAB Parameter: CAS Result MQL SDL Voids Analytic Flag Difference Difference Image: Parameter CAS Number Result MQL SDL Voids Analytic Flag Difference Image: Difference Difference Difference Image: Difference Image: Image: Difference Difference <thdifference< th=""> Difference</thdifference<>	Lab Sample I	d: 665605-020		Date Collect	ted: 06.24.20	20 13:27	Date	Received: 06.25.20	20 15	:45
Analysis: MAB % Moist: Tech: MAB Sq Number: 3130201 Date Prep: 66.2020 08:45 Prep seq: 7706227 Parameter CAS Result MQL SDL Units Analysis Flag DI Factor Analysical Method: TETH by SW8015 Mod Image: Second S	Analytical M	ethod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Seq Number: 3130201 Date Prep: 62.62.020 08.45 Frep seq: 7706227 Parameter Routh MQL SDL Units Analysis Diff Factor Chinride 16887-00-6 16.9 9.94 0.352 mg/kg 06.26.2020 1/20 1 Analytical Method: TPH by SW8015 Mod Energies Tech MAB MAB % Moist: Tech MAB Seq Number: 3130203 Date Prep: 06.26.2020 10.01 Analysis MAB % Moist: Tech MAB Seq Number: 3130203 CAS Result MQL SDL Units Analysis MAB Mode OI Binger Unicondons (ORO) PHECG10 Result MQL SDL Units Analysis Occ.2020 10.21 U 1 Mador OI Binger Unicondons (MRO) PHECG35 S0.0 11.5 mg/kg 06.26.2020 16.21 U 1 Surrogate Surrogate Surrogate Surrogate Surrogate Surrogate Surrogate Surrogate Surrogate <t< td=""><td>Analyst:</td><td>MAB</td><td></td><td>% Moist:</td><td></td><td></td><td>Tech</td><td>MAB</td><td></td><td></td></t<>	Analyst:	MAB		% Moist:			Tech	MAB		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Sea Number:	3130201		Date Prep: 0	6,26,2020 08	8:45				
Parameter CAS Number Result MQL SDL Units Analysis Date Ping Dil Factor Chirride 16887-00-6 10.9 9.94 0.332 mg/kg 06.26.2020 17.20 1 Analytical Method: TPH by SW8015 Mod Frep Method: 8015 MAB Seq Tech: MAB	beq ramber.	5150201		Prep seg: 7	706227					
Chterkle 16887-00-6 10.9 9.94 0.352 mg/kg 06.26.2020 17:20 1 Analytical Method: TPH by SW8015 Mod Analyst: MAB % Moisi: Tech: MAB Seq Number: 3130203 Date Prep: 06.26.2020 10:05 Prep seq: Tech: MAB Flag Dif Factor Analysis: MAB % Moisi: Tech: MAB Flag Dif Factor Gasoline Range Hydrocarbons (GRO) PICC610 <13.9	Paramete	a.	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Analytical Method: TPH by SW8015 Mod Prep Method: 8015 Audyst: MAB % Moist: Tech: MAB Seq Number: 3130203 Date Prep: 06.26.2020 10:05 Prep seq: 7005261 Prep Method: SPL Units Analysis Parameter Office Parameter Parameter Parameter Parameter Parameter Office Parameter Office Parameter	Chloride		16887-00-6	10.9	9.94	0.352	mg/kg	06.26.2020 17:20		1
Analysi: MAB % Moist: Tech: MAB Seq Number: 3130203 Date Prep: 06.26.2020 10:05 Prep seg: 7706261 Units Analysis Pla Pli Factor Gasoline Range Hydrocarbons (GRO) PHC610 <13.9	Analytical Me	ethod: TPH by SW8015 Mo	d				Prep I	Viethod: 8015		
Parameter CAS Number Date Prep: 66.2.020 10.0 10.0 Seq Number: 3130203 Date Prep: 66.2.020 10.05 Parameter CAS Number Result MQL SDL Units Analysis Fleg Difference Gasoline Range Hydrocarbons (GRO) PHC610 <13.9	Analyst.	MAR		% Moist:			Tech	MAB		
Ster register CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Gasoline Range Hydrocarbons (GRO) PHC610 <13.9	Sea Number	3130203		Date Pren: 0	6.26.2020 10	:05	10011.			
Parameter CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Metro Cill Renge Hydrocarbons (MRO) Total TPH PHC610 <13.9	Seq Number.	3130203		Pren sea: 7	706261					
Total Calibric Process of the second se	Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Classing Large Hydrocarbons (GRO) PH (C100 < 1.3.9 30.0 1.3.9 mg/kg 00.2.02.01 0:2.1 0 1 Diese Range Organics (DRO) C10C22BRO <11.5 50.0 11.5 mg/kg 00.2.2020 16:2.1 U 1 Total TPH PHC635 <11.4 50.0 11.4 mg/kg 06.26.2020 16:2.1 U 1 Surregate % Recovery Linnits Units Analysis Date Flag 1-Chlorooctane 94 70 - 135 % 62.62.020 16:2.1 U 1 Analysis MAB Servery Linnits Units Analysis Date Flag Analysis MAB % Moist: Tech: MAB Solitaria MaB Solitaria Prep Method: 5035A Seq Number: 3130305 Date Prep: 06.29.2020 09:27 Prep seq: 7706338 Paameter CAS Result MQL SDL Units Analysis Plag Di Factor Benzene 71-43.2 <0.000481 0.00198 0.000421 mg/kg 06.29.2020 15:47 U 1 <t< td=""><td></td><td></td><td></td><td>-12.0</td><td>50.0</td><td>12.0</td><td></td><td></td><td>11</td><td></td></t<>				-12.0	50.0	12.0			11	
Discreting Organics (URO) DioCubino (IRO) DioCubino (IRO) DioCubino (IRO) DioCubino (IRO) III-3 mg/kg 062202016:21 U I Motor OII Range Trydinearbons (MRO) PHC635 <11.4	Gasoline R	ange Hydrocarbons (GRO)	CIOC28DRO	<13.9	50.0 50.0	13.9	mg/Kg mg/kg	06.26.2020 ±6:21	U TI	I
Total TPH PHC635 <11.4 11.4 mg/kg 06.26.2020 16.21 U Surrogate % Recovery Limits Units Analysis Date Flag 1-Chlorooctane 94 70 - 135 % Flag Flag 1-Chlorooctane 94 99 70 - 135 % Flag Flag Analytical Method: BTEX by EPA 8021 Enters 06.29.2020 09:27 Tech: MAB S05 Date Prep: 06.29.2020 09:27 Seq Number: 310305 Date Prep: 06.29.2020 09:27 Prep seq: 7706338 Flag Dil Factor Benzene 71-43-2 <0.000481	Motor Oil Ra	ange Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	06.26.2020 16:21	U	1
Surrogate o-Terphenyl% Recovery 94LimitsUnits $\gamma_0 - 135$ Analysis DateFlag1-Chlorooctane o-Terphenyl94 $\gamma_0 - 135$ %%Analytical Method: BTEX by EPA 8021 Analyst:99 $\gamma_0 - 135$ %Analytical Method: BTEX by EPA 8021 Analyst:Prep Method: 5035A MABPrep Method: 5035ASeq Number:3130305Date Prep: 06.29.2020 09:27 Prep seq: 7706338Tech:ParameterCAS NumberResultMQLSDLUnitsAnalysis MAB DateFlagBenzene Toluene71-43-2 1048-88-3<0.000481 <0.000522	Total TPH		PHC635	<11.4	5010	11.4	mg/kg	06.26.2020 16:21	Ū	
Surrogate $/2$ RecoveryLimitsUnitsAnalysis DateFlag1-Chlorooctane94 $70 - 135$ $\%$ $70 - 135$ $\%$ 0 -Terphenyl99 $70 - 135$ $\%$ $70 - 135$ $\%$ Analysis DateBTEX by EPA 8021 $Flag$ $Prep: 06.29.2020 09:27$ $Prep: 06.29.2020 09:27$ AnalysisMAB $\%$ Moist: $Prep: 06.29.2020 09:27$ $Prep: seq: 7706338$ Parameter CAS Result MQL SDL $Units$ $Analysis$ Bazzene $71.43.2$ <0.000481 0.00198 0.000481 mg/kg $06.29.2020 15:47$ U Toluene108-88-3 <0.000420 mg/kg $06.29.2020 15:47$ U 1Toluene108-88-3 <0.000420 0.00198 0.000420 mg/kg $06.29.2020 15:47$ U 1Toluene106-1:4 <0.000490 0.00198 0.000420 mg/kg $06.29.2020 15:47$ U 1Toluene109-1:23-1 <0.000746 0.000399 mg/kg $06.29.2020 15:47$ U 1 $m_p-Xylenes$ 179601:23-1 <0.000399 0.000399 mg/kg $06.29.2020 15:47$ U 1 $n_p-Xylenes$ 1330-20-7 <0.000399 0.000399 mg/kg $06.29.2020 15:47$ U 1 $Total BTEX$ $FREX$ $FREX$ $FREX$ $FREX$ $FREX$ $FREX$ $FREX$ $I_1-Difluorobenzene102?0-130\%FREXFREXFREX$										
1-Chlorooctane 94 70 - 135 % o-Terphenyl 99 70 - 135 % Analytical Method: BTEX by EPA 8021 Prep Method: 5035A Analyst: MAB % Moist: Tech: MAB Seq Number: 3130305 Date Prep: 06.29.2020 09:27 Prep seq: 7706338 Prep seq: 70-135 % MAB Prep seq: 7706338 Parameter CAS Number Result MQL SDL Units Analysis Plag Dil Factor Benzene 71-43-2 <0.000481	Surrogate			% Recovery		Limits	Units	Analysis Date	;	Flag
Analytical Method: BTEX by EPA 8021 Prep Method: 5035A Analysi: MAB % Moist: Tech: MAB Seq Number: 3130305 Date Prep: 06.29.2020 09:27 Tech: MAB Seq Number: 3130305 Date Prep: 06.29.2020 09:27 Tech: MAB Prep seq: 706338 Tech: Mate Plate Prep: 06.29.2020 15:47 U 1 Benzene 71-43-2 <0.000481 0.00198 0.000481 mg/kg 06.29.2020 15:47 U 1 Benzene 104-41-4 <0.000402	1-Chlorooc o-Terpheny	tane I		94 99		70 - 135 70 - 135	% %			
Prep Method: BTEX by EPA 8021 Prep Method: $5035A$ Analyst: MAB % Moist: Tech: MAB Seq Number: 3130305 Date Prep: $06.29.2020 09:27$ Prep seq: 7706338 Parameter CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Benzene $71-43-2$ <0.000481 0.00198 0.000481 mg/kg $06.29.2020 15:47$ U 1 Benzene $11-43-2$ <0.000420 0.00198 0.000421 mg/kg $06.29.2020 15:47$ U 1 Benzene $17-60-310$ <0.000420 0.00198 0.000421 mg/kg $06.29.2020 15:47$ U 1 Tohuene $100+1-4$ <0.000746 0.000390 mg/kg $06.29.2020 15:47$ U 1 m.p-Xylenes $179601-23-1$ <0.000399 0.000399 mg/kg $06.29.2020 15:47$ U 1 Surrogate $95.47-6$ <0.000399 0.000399 mg/kg $06.29.2020 15:47$ U 1 Surrogate $95.47-$										
Analyst: MAB % Moist: Tech: MAB Seq Number: 3130305 Date Prep: $06.29.2020 09:27$ Prep seq: 7706338 Parameter CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Benzene 71-43-2 <0.000481	Analytical Me	thod: BTEX by EPA 8021					Prep M	fethod: 5035A		
Seq Number: 3130305 Date Prep: 06.29.2020 09:27 Prep seq: 7706338 Parameter CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Benzene 71-43-2 <0.000481	Analyst:	MAB		% Moist:			Tech:	MAB		
Parameter CAS Number Result MQL SDL Units Analysis Date File Dil Factor Benzene 71-43-2 <0.000481	Seq Number:	3130305		Date Prep: 06	5.29.2020 09:	27				
Parameter CAS Number Result MQL SDL Units Analysis Date Flag Dil Factor Benzene 71-43-2 <0.000481				Prep seq: 77	706338					
Benzene 71-43-2 <0.000481 0.00198 0.000481 mg/kg 06.29.2020 15:47 U 1 Toluene 108-88-3 <0.000522	Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Toluene 108-88-3 <0.000522 0.00198 0.000522 mg/kg 06.29.2020 15:47 U 1 Ethylbenzene 100-41-4 <0.000402	Benzene		71-43-2	<0.000481	0.00198	0.000481	mg/kg	06.29.2020 15:47	U	1
Ethylbenzene 100-41-4 <0.000402 0.00198 0.000402 mg/kg 06.29.2020 15:47 U 1 m,p-Xylenes 179601-23-1 <0.000746	Toluene		108-88-3	<0.000522	0.00198	0.000522	mg/kg	06.29.2020 15:47	U	1
m,p-Xylenes 179601-23-1 <0.000746	Ethylbenzer	ıe	100-41-4	<0.000402	0.00198	0.000402	mg/kg	06.29.2020 15:47	U	1
o-Xylene 95-47-6 <0.000399 0.00198 0.000399 mg/kg 06.29.2020 15:47 U I Total Xylenes 1330-20-7 <0.000399	m,p-Xylene	S	179601-23-1	<0.000746	0.00396	0.000746	mg/kg	06.29.2020 15:47	U	1
Total Xylenes 1530-20-7 <0.000399 mg/kg 06.29.2020 15:47 U Total BTEX <0.000399	o-Xylene		95-47-6	<0.000399	0.00198	0.000399	mg/Kg	06.29.2020 15:47	U U	I
NumberCounting<	Total Aylen	es ,	1550-20-7	<0.000399		0.000399	mg/kg	06.29.2020 15:47	U	
Surrogate% RecoveryLimitsUnitsAnalysis DateFlag1,4-Difluorobenzene10270 - 130%4-Bromofluorobenzene10270 - 130%				~0.000379		0.000377	шель	00.27.2020 13.17	Ŭ	
1,4-Diffuorobenzene10270 - 130%4-Bromofluorobenzene10270 - 130%	Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
4-Bromofluorobenzene 102 70 - 130 %	1,4-Difluor	obenzene		102		70 - 130	%			
	4-Bromoflu	orobenzene		102		70 - 130	%			



•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-10 0.1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	: 665605-021		Date Collect	ed: 06.24.20	20 13:45	Date	Received: 06.25.20)20 15:	45
Analytical Me	thod: Inorganic Anions by I	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number	3130201		Date Prep: 0	6.26.2020 08	:45				
beq Number.	5150201		Prep seq: 7	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	6.55	9.94	0.352	mg/kg	06.26.2020 17:26	J	1
Analytical Met	hod: TPH by SW8015 Mod	-				Prep ?	Method: 8015		
Analyst:	мав		% Moist:			Tech:	MAB		
Analyst.	2120202		Date Pren: Of	5 26 2020 10	·05				
Seq Number:	3130203		Date Hep. of	704941	.05				
			Prep seq: /	/00201					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 17:08	U	1
Diesel Rang	e Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 17:08	U	1
Motor Oil Raz	age Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 17:08	U 11	1
Total TPH		PHC635	<11.4		11.4	nig/kg	00.20.2020 17.08	U	
Surrogate			% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooct	ane		91		70 - 135	%			
o-Terphenyl	l .		95		70 - 135	%			
Analytical Met	hod: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst:	MAR		% Moist:			Tech:	MAB		
Sag Numbor	2120205		Date Pren: 0f	5.29.2020.09:	27				
bey Number.	5150505		Dren sea: 77	706338					
		(1)	Ttop soy. , ,	00550			Analusis		Dil Factor
Parameter		CAS Number	Result	MQL	SDL	Units	Date	Flag	Daractor
Benzene		71-43-2	<0.000485	0.00200	0.000485	mg/kg	06.29.2020 16:08	U	1
Toluene		108-88-3	<0.000527	0.00200	0.000527	mg/kg	06.29.2020 16:08	U	1
Ethylbenzen	e	100-41-4	<0.000405	0.00200	0.000405	mg/kg	06.29.2020 16:08	0	1
m,p-Xylenes		179601-23-1	<0.000752	0.00399	0.000752	mg/kg	06.29.2020 16:08	U TI	1
o-Xylene		90-47-0 1330_207	<0.000402 <0.000402	0.00200	0.000402	mg/kg	06.29.2020 16:08	U	1
Total BTEX	<i>.</i> 0	1550-20-1	< 0.000402		0.000402	mg/kg	06.29.2020 16:08	Ū	
I Guil D I DA						~ ~			
Surrogate			% Recovery		Limits	Units	Analysis Dat	e	Flag
Surrogate 1,4-Difluoro	benzene		% Recovery 104		Limits 70 - 130	Units %	Analysis Dat	e	Flag



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-10 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample I	d: 665605-022		Date Collect	ed: 06.24.20	20 13:50	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number:	3130201		Date Prep: 0	6.26.2020 08	:45				
			Prep seq: 7	706227					
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	10.6	10.1	0.357	mg/kg	06.26.2020 17:44		1
Analytical Me	thad: TPH by SW8015 Ma	d				Pren	Method: 8015		
A malurati	MAD	+	% Moist			Tech	MAR		
Anaryst;	MAD 2120202		Date Pren: 0(5 26 2020 10	·05	i cen.	MIAD		
Seq Munder.	3130203		Pren sea: 7	706261					
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R Diesel Ran Motor Oil Ra Total TPH	ange Hydrocarbons (GRO) ge Organics (DRO) nge Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835 PHC635	<13.9 <11.5 <11.4 <11.4	50.0 50.0 50.0	13.9 11.5 11.4 11.4	mg/kg mg/kg mg/kg mg/kg	06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	บ บ บ บ	1 1 1
Surregate			% Recovery		Limits	Units	Analysis Date	e	Flag
l-Chlorooc o-Terpheny	tane I		91 94		70 - 135 70 - 135	% %			
Analytical Me	thad DTEY by EDA 2021								
i mary croar mito						Prep N	Jethod: 5035A		
Analyet	MAR		% Moist:			Prep N Tech:	Aethod: 5035A MAB		
Analyst:	MAB		% Moist: Date Pren: 06	29 2020 09:	27	Prep M Tech:	Nethod: 5035A MAB		
Analyst: Seq Number:	MAB 3130305		% Moist: Date Prep: 06 Prep seg: 77	5,29,2020 09: 06338	27	Prep N Tech:	Aethod: 5035A MAB		
Analyst: Seq Number: Parameter	MAB 3130305	CAS Number	% Moist: Date Prep: 06 Prep seq: 77 Result	5.29.2020 09: 06338 MQL	27 SDL	Prep M Tech: Units	Aethod: 5035A MAB Analysis Date	Flag	Dil Factor
Analyst: Seq Number: Parameter Benzene	MAB 3130305	CAS Number 71-43-2	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485	5,29,2020 09: 06338 MQL 0.00200	27 SDL 0.000485	Prep M Tech: Units mg/kg	Aethod: 5035A MAB Analysis Date 06.29.2020 16:28	Flag U	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene	MAB 3130305	CAS Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527	5,29,2020 09: 06338 MQL 0,00200 0.00200	27 SDL 0.000485 0.000527	Prep M Tech: Units mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28	Flag U U	Dil Factor 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	5,29,2020 09: 06338 MQL 0,00200 0,00200 0,00200 0,00200	27 SDL 0.000485 0.000527 0.000405	Prep M Tech: Units mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U	Dil Factor 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylenc:	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	5.29.2020 09: 06338 MQL 0.00200 0.00200 0.00200 0.00399	27 SDL 0.000485 0.000527 0.000405 0.000752	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	5.29.2020 09: 06338 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	27 SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U U	Dil Factor 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000405 <0.000402 <0.000402	5.29.2020 09: 06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399 0.00200	27 SDL 0.000485 0.000527 0.000405 0.000405 0.000402 0.000402	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U U U	Dil Factor 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene Total Xylen Total BTEX	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402 <0.000402	5,29,2020 09: 06338 MQL 0,00200 0,00200 0,00200 0,00200 0,00399 0,00200	27 SDL 0.000485 0.000527 0.000405 0.000405 0.000402 0.000402 0.000402	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U U U U U	Dil Factor 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene Total Xylen Total BTEX Surrogate	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000405 <0.000405 <0.000402 <0.000402 <0.000402 <0.000402	5.29.2020 09: 06338 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	27 SDL 0.000485 0.000527 0.000405 0.000405 0.000402 0.000402 0.000402 Limits	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U U U U	Dil Factor 1 1 1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xylen Total BTEX Surrogate 1,4-Difluord	MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000402 <0.000402 <0.000402 <0.000402 <0.000402	5.29.2020 09: 06338 MQL 0.00200 0.00200 0.00200 0.00399 0.00200	27 SDL 0.000485 0.000527 0.000405 0.000402 0.000402 0.000402 Limits 70 - 130	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	Flag U U U U U U	Dil Factor 1 1 1 1 1 Flag



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id: S11 0.1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-023		Date Collecte	ed: 06.24.20	20 13:53	Date	Received: 06.25.20	020 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech	MAB		
Sea Number: 3130201		Date Pren: 00	5,26,2020 08	:45				
Seq 1400001. 5150201		Prep seq: 7	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	11.9	10.1	0.356	mg/kg	06.26.2020 17:50		1
A					Prop	Method: 8015		
Analytical Method: TPH by Sw8015 MC	a	D/ 3/-1-4-			Tiepi	Method. 8015		
Analyst: MAB		% (VIOIST;			I ecn:	MAB		
Seq Number: 3130203		Date Prep: 06	5.26.2020-10	:05				
		Prep seq: 77	706261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 17:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11,5	mg/kg	06.26.2020 17:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	06.26.2020 17:49	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	00.20.2020 17:49	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	c	Flag
1-Chlorooctane o-Terphenyl		100 104		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Prep M	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130305		Date Prep: 06	.29.2020 09:	27				
		Prep seq: 77	06338					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.29.2020 16:48	U	1
Toluene	108-88-3	<0.000529	0.00200	0.000529	mg/kg	06.29.2020 16:48	U	1
Ethylbenzene	100-41-4	< 0.000407	0.00200	0.000407	mg/kg	06.29.2020 16:48	U	1
m,p-Xylenes	179601-23-1	<0.000755	0.00401	0.000755	mg/kg mg/kg	06.29.2020 16:48	П	1
u-Ayiene Total Xylenes	1330-20-7	< 0.000404	0.00200	0.000404	mg/kg	06.29.2020 16:48	Ŭ	-
Total BTEX	1550 20 1	<0.000404		0.000404	mg/kg	06.29.2020 16:48	U	
Surrogata		% Repovery		Limits	Units	Analysis Dat	e	Flag
		100		70 120	0/		-	
1,4-Difluorobenzene		103		70 - 130 70 - 130	% %			
4-Bromonuorobenzene		101		70 - 150	/0			



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id:	S11 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Ic	1: 665605-024		Date Collect	ed: 06.24.20	20 13:57	Date	Received: 06.25.20	20 15:	45
Analytical Me	thod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number	3130201		Date Prep: 0	6.26.2020 08	3:45				
beq manber.	5150201		Prep sea: 7	706227					
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	11.5	10.0	0.355	mg/kg	06.26.2020 18:08		I
Analytical Me	thod: TPH by SW8015 Mod	d				Prep I	Viethod: 8015		
Analyst	MAB		% Moist:			Tech:	MAB		
Pag Number	2120202		Date Pren [.] Of	6.26.2020 10	:05				
Seq Number.	5150205		Drop and 7	706261					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Pa	unge Hudrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mø/kø	06.26.2020 18:09	U	1
Diesel Rang	e Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 18:09	Ū	1
Motor Oil Ra	nge Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 18:09	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 18:09	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	2	Flag
1-Chlorooct	ane		97		70 - 135	%			
o-Terpheny	1		101		70 - 135	%			
Analytical Met	hod: BTEX by EPA 8021					Prep M	Aethod: 5035A		
A	MAD		% Moist			Tech	MAR		
Anarysi:	MAB		Data Dram: 06	. 20 2020 AQ	.77	10011.			
Seq Number:	3130305		Prep seg: 77	706338					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene		71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.29.2020 17:09	U	1
Toluene		108-88-3	<0.000529	0.00200	0.000529	mg/kg	06.29.2020 17:09	U	1
Ethylbenzen	e	100-41-4	<0.000407	0.00200	0.000407	mg/kg	06.29.2020 17:09	U	1
m,p-Xylenes	\$	179601-23-1	<0.000755	0.00401	0.000755	mg/kg	06.29.2020 17:09	U	1
o-Xylene		95-47-6	< 0.000404	0.00200	0.000404	mg/kg	06.29.2020 17:09	U	I
Total Xylene	es	1330-20-7	<0.000404 <0.000404		0.000404	mg/kg mg/kg	06.29.2020 17:09	U U	
10al DIEA									
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
1,4-Difluoro	benzene		100		70 - 130	%			



665605

•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-12 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	d: 665605-025		Date Collect	ed: 06.24.202	20 14:03	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by	EPA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sag Number	2120201		Date Prep. 0	5.26.2020 08	:45				
Seq Number.	5150201		Prep seq: 7	706227					
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	11.2	9.94	0.352	mg/kg	06.26.2020 18:14]
Analytical Me	thod: TPH by SW8015 Mo	d				Prep 1	Method: 8015		
Analyst	MAD		% Moist			Tech	MAB		
Analyst;	MAD 2120202		Date Pren: 06	5.26.2020 10:	05	10011.			
seq rumber.	3130203		Pren seg: 77	/06261					
Paramete		CAS Number	Result	MQL	SDL	Units	AnaIysis Date	Flag	Dil Factor
Gasoline Ra	ange Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.26.2020 18:30	U	1
Diesel Rans	ge Organics (DRO)	C10C28DRO	<11,4	49.9	11.4	mg/kg	06.26.2020 18:30	U	1
Motor Oil Ra	nge Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 18:30	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06,26.2020 18:30	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	e	Flag
Surrogate	tane		% Recovery 96		Limits 70 - 135	Units %	Analysis Date	e	Flag
Surrogate 1-Chiorooc o-Terpheny	tane 1		% Recovery 96 101		Limits 70 - 135 70 - 135	Units % %	Analysis Date	e	Flag
Surrogate 1-Chiorooc o-Terpheny Apalytical Me	tane 1 thod: BTEX by EPA 8021		% Recovery 96 101		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Date Aethod: 5035A	e	i^lag
Surrogate 1-Chiorooc o-Terpheny Analytical Met	tane 1 thod: BTEX by EPA 8021 MAB		% Recovery 96 101 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep N Tech:	Analysis Date Aethod: 5035A MAB	8	i^lag
Surrogate 1-Chlorooc o-Terpheny Analytical Met Analyst: Sea Number:	tane 1 thod: BTEX by EPA 8021 MAB 3130305		% Recovery 96 101 % Moist: Date Prep: 06	,29.2020 09:	Limits 70 - 135 70 - 135 27	Units % % Prep M Tech:	Analysis Date Aethod: 5035A MAB	e	i∿lag
Surrogate 1-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number:	tane 1 thod: BTEX by EPA 8021 MAB 3130305		% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77	.29.2020 09: 06338	Limits 70 - 135 70 - 135 27	Units % % Prep N Tech:	Analysis Date Aethod: 5035A MAB	e	i∙lag
Surrogate 1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result	.29.2020 09: 06338 MQL	Limits 70 - 135 70 - 135 27 SDL	Units % Prep M Tech: Units	Analysis Date Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate I-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487	.29.2020 09: 06338 MQL 0.00201	Limits 70 - 135 70 - 135 27 27 SDL 0.000487	Units % Prep N Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:29	Flag U	filag Dil Factor
Surrogate I-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530	.29.2020 09: 06338 MQL 0.00201 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530	Units % Prep N Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:29 06.29.2020 17:29	Flag U U	Flag Dil Factor
Surrogate 1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000488 <0.000408	,29.2020 09: 06338 MQL 0.00201 0.00201 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408	Units % Prep M Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U	Flag Dil Factor
Surrogate 1-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000487 <0.000408 <0.000408 <0.000757	.29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408 0.000757 0.000757	Units % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U	Flag Dil Factor
Surrogate 1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1220-22 7	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000487 <0.000408 <0.000408 <0.000405 <0.000405	,29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408 0.000757 0.000405	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U U U	Flag Dil Factor
Surrogate 1-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	tane 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000408 <0.000408 <0.000405 <0.000405 <0.000405	.29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	tanc 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487	.29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U U U U U U U U U U	Flag Dil Factor 1 1 1 1 1 1 1
Surrogate I-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX Surrogate	tanc 1 thod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000487	.29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 227 SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405 0.000405 Limits	Units % % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis Date MAB Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U U U U U	Flag Flag
Surrogate I-Chiorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX Surrogate I,4-Difluoro	tanc 1 thod: BTEX by EPA 8021 MAB 3130305 es s es	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 96 101 % Moist: Date Prep: 06 Prep seq: 77 Result 77 0.000487 7 <0.0004087	.29.2020 09: 06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402 0.00201	Limits 70 - 135 70 - 135 27 SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405 0.000405 Limits 70 - 130	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Analysis MAB Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	Flag U U U U U U U U	Flag Flag



•

Released to Imaging: 9/20/2022 1:02:46 PM

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id:	S-12 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	: 665605-026		Date Collecte	ed: 06.24.202	20 14:06	Date 1	Received: 06.25.20	20 15:	45
Analytical Me	thod: Inorganic Anions by E	CPA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Sea Number:	3130201		Date Prep: 06	5.26.2020 08	:45				
			Prep seq: 7	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	10.3	9.96	0.353	mg/kg	06.26.2020 18:20		1
Analytical Met	bod: TPH by SW8015 Mod					Prep 1	Viethod: 8015		
Angluct	MAR		% Moist:			Tech	MAB		
Analyst:	MAD		Data Brany Of	526 2020 10	05		1		
Seq Number:	3130203		Date Flep. 00		.05				
			Prep seq: //	00201					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	nge Hydrocarbons (GRO)	PHC610	<13.9	50.1	13.9	mg/kg	06.26.2020 18:50	U	1
Diesel Rang	e Organics (DRO)	C10C28DRO	<11.5	50.1	11.5	mg/kg	06.26.2020 18:50	U	1
Motor Oil Ran	ige Hydrocarbons (MRO)	PHCG2835	<11.5	50.1	11.5	mg/kg	06.26.2020 18:50	U	1
Total TPH		PHC635	<11,5		11.5	mg/kg	06.20.2020 18:30	U	
Surrogate			% Recovery		Limits	Units	Analysis Data	e	Flag
Surrogate 1-Chloroocta	ane		% Recovery 93 97		Limits 70 - 135 70 - 135	Units % %	Analysis Data	2	Flag
Surrogate 1-Chlorooct o-Terphenyl	ane		% Recovery 93 97		Limits 70 - 135 70 - 135	Units % %	Analysis Date		Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Metl	ane hod: BTEX by EPA 8021		% Recovery 93 97		Limits 70 - 135 70 - 135	Units % % Prep N	Analysis Date Acthod: 5035A		Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst:	ane hod: BTEX by EPA 8021 MAB		% Recovery 93 97 % Moist:		Limits 70 - 135 70 - 135	Units % % Prep M Tech:	Analysis Data Method: 5035A MAB		Flag
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number:	ane hod: BTEX by EPA 8021 MAB 3130305		% Recovery 93 97 % Moist: Date Prep: 06	.29.2020 09:	Limits 70 - 135 70 - 135 27	Units % % Prep M Tech:	Analysis Data Aethod: 5035A MAB		Flag
Surrogate 1-Chlorooct o-Terphenyl Analytical Met Analyst: Seq Number:	ane hod: BTEX by EPA 8021 MAB 3130305		% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77	.29.2020 09: 06338	Limits 70 - 135 70 - 135 27	Units % % Prep M Tech:	Analysis Data Acthod: 5035A MAB		Flag
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result	.29.2020 09: 06338 MQL	Limits 70 - 135 70 - 135 27 27 SDL	Units % % Prep N Tech: Units	Analysis Date Aethod: 5035A MAB Analysis Date	Flag	Flag Dil Factor
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	.29.2020 09: 06338 MQL 0.00202	Limits 70 - 135 70 - 135 27 27 SDL 0.000489	Units % % Prep M Tech: Units mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:50	Flag	Flag Dil Factor
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532	.29.2020 09: 06338 MQL 0.00202 0.00202	Limits 70 - 135 70 - 135 27 27 SDL 0.000489 0.000532	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50	Flag U U	Flag Dil Factor I
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202	Limits 70 - 135 70 - 135 27 SDL 0.000489 0.000532 0.000409 0.000532	Units % % Prep N Tech: Units mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.20.2020 17:50	Flag U U U	Flag Dil Factor
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 05 47 6	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000760	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 27 SDL 0.000489 0.000532 0.000409 0.000760 0.000409	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U	Flag Dil Factor
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Totel Yulere	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Method: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U U U	Flag Dil Factor I I 1 1 1
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total STEX	ane hod: BTEX by EPA 8021 MAB 3130305 e	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 93 97 97 97 97 % Moist: Date Prep: 06 06 Prep seq: 77 77 Result <0.000489	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U U U U U	Flag Dil Factor I I 1 1 1
Surrogate 1-Chlorooct: o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX	ane hod: BTEX by EPA 8021 MAB 3130305	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 93 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 20 - 135 20 - 135 20 - 135 20 - 135 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Aethod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U U U U U U	Flag Dil Factor
Surrogate 1-Chlorooct: o-Terphenyl Analytical Metl Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX Surrogate	ane hod: BTEX by EPA 8021 MAB 3130305 e	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 93 97 97 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 20 - 135 20 - 135 20 - 135 20 - 20 27 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U U U U U	Flag Dil Factor I I 1 1 1 Flag
Surrogate 1-Chloroocta o-Terphenyl Analytical Meth Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylene Total BTEX Surrogate 1,4-Difluoro	ane hod: BTEX by EPA 8021 MAB 3130305 e s s	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6 1330-20-7	% Recovery 93 97 98 97 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000489	.29.2020 09: 06338 MQL 0.00202 0.00202 0.00202 0.00403 0.00202	Limits 70 - 135 70 - 135 27 SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406 Limits 70 - 130	Units % % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date Acthod: 5035A MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	Flag U U U U U U U U U	Flag Dil Factor i i 1 1 1 Flag



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Sample Id: 7706226-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706226-1-BLK		Date Collecte	ed:		Date	Received:		
Analytical Method: Inorganic Anions b	y EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB	-	% Moist:			Tech:	MAB		
Seg Number: 3130200		Date Prep: 00	5.26.2020 08:	:41				
		Prep seq: 7	706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<0.354	10.0	0.354	mg/kg	06.26.2020 13:01	U	1
Sample Id: 7706227-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706227-1-BLK		Date Collecte	ed:		Date	Received:		
Analytical Method: Inorganic Anions b	v EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB	,	% Moist:			Tech:	MAB		
Seq Number: 3130201		Date Prep: 06	5.26.2020 08:	45				
•		Prep seq: 77	06227					
Parameter	CAS Number	Result	MQL	SDL	Units	Anałysis Date	Flag	Dil Factor
Chloride	16887-00-6	<0.354	10.0	0.354	mg/kg	06.26.2020 15:45	U	1
Chloride Sample Id: 7706231-1-BLK	16887-00-6	<0.354 Matrix:	10.0 Solid	0.354	mg/kg Sampl	06.26.2020 15:45 le Depth:	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK	16887-00-6	<0.354 Matrix: Date Collecte	10.0 Solid d:	0.354	mg/kg Sampl Date H	06.26.2020 15:45 le Depth: Received:	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M	16887-00-6	<0.354 Matrix: Date Collecte	10.0 Solid d:	0.354	mg/kg Sampl Date H Prep N	06.26.2020 15:45 le Depth: Received: Method: 8015	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC	16887-00-6 lod	<0.354 Matrix: Date Collecte % Moist:	10.0 Solid d:	0.354	mg/kg Sampl Date F Prep M Tech:	06.26.2020 15:45 le Depth: Received: Method: 8015 CAC	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC Seq Number: 3130037	16887-00-6	<0.354 Matrix: Date Collecte % Moist: Date Prep: 06	10.0 Solid d: .25.2020 16:-	0.354	mg/kg Sampl Date H Prep M Tech:	06.26.2020 15:45 le Depth: Received: Aethod: 8015 CAC	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC Seq Number: 3130037	16887-00-6	<0.354 Matrix: Date Collecte % Moist: Date Prep: 06 Prep seq: 77	10.0 Solid d: .25.2020 16: 06231	0.354	mg/kg Sampl Date F Prep N Tech:	06.26.2020 15:45 le Depth: Received: Aethod: 8015 CAC	U	1
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC Seq Number: 3130037 Parameter	16887-00-6 lod CAS Number	<0.354 Matrix: Date Collecte % Moist: Date Prep: 06 Prep seq: 77 Result	10.0 Solid d: .25.2020 16:4 06231 MQL	0.354 48 SDL	mg/kg Sampl Date F Prep M Tech: Units	06.26.2020 15:45 le Depth: Received: Method: 8015 CAC Analysis Date	U Flag] Dil Factor
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC Seq Number: 3130037 Parameter Gasoline Range Hydrocarbons (GRO)	I6887-00-6 od CAS Number PHC610	<0.354 Matrix: Date Collecte % Moist: Date Prep: 06 Prep seq: 77 Result <13.9	10.0 Solid d: .25.2020 16:- 06231 MQL 50.0	0.354 48 SDL 13.9	mg/kg Sampl Date F Prep N Tech: Units mg/kg	06.26.2020 15:45 le Depth: Received: Aethod: 8015 CAC Analysis Date 06.25.2020 18:32	U Flag U	1 Dil Factor
Chloride Sample Id: 7706231-1-BLK Lab Sample Id: 7706231-1-BLK Analytical Method: TPH by SW8015 M Analyst: CAC Seq Number: 3130037 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	16887-00-6 lod CAS Number PHC610 C10C28DRO	<0.354 Matrix: Date Collecte % Moist: Date Prep: 06 Prep seq: 77 Result <13.9 <11.5	10.0 Solid d: .25.2020 16:- 06231 MQL 50.0 50.0	0.354 48 SDL 13.9 11.5	mg/kg Sampl Date F Prep N Tech: Units mg/kg	06.26.2020 15:45 le Depth: Received: Aethod: 8015 CAC Analysis Date 06.25.2020 18:32	U Flag U U	1 Dil Facto I 1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	83	70 - 135	%		
o-Terphenyl	71	70 - 135	%		



Talon LPE-Artesia, Artesia, NM

•

Released to Imaging: 9/20/2022 1:02:46 PM

Arabian 30-19 1H

Sample Id: 7706233-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706233-1-BLK		Date Collect	ed:		Date	Received:		
Analytical Method: BTEX by EPA 8021					Prep]	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
		Data Daart ()	6 25 2020 16					
Seq Number: 3130038		Date Prep: 00	0.25.2020 10					
		Prep seq: 7	706233					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.25.2020 19:17	U	1
Toluene	108-88-3	<0.000528	0.00200	0.000528	mg/kg	06.25.2020 19:17	U	1
Ethylbenzene	100-41-4	<0.000406	0.00200	0.000406	mg/kg	06.25.2020 19:17	U	ť
m_p-Xylenes	179601-23-1	<0.000754	0.00400	0.000754	mg/kg	06.25.2020 19:17	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	06.25.2020 19:17	U	1
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1.4 Diffuorobenzena		08		70 - 130	%			
4-Bromofluorobenzene		95		70 - 130	%			
Sample Id: 7706236-1-BLK		Matrix:	Solid		Sampl	le Depth:		
Lab Sample Id: 7706236-1-BLK		Date Collecte	ed:		Date I	Received:		
Analytical Method: BTEX by EPA 8021					Prep N	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130199		Date Prep: 06	5.26.2020 09:	:55				
		Prep seq: 77	06236					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.26.2020 13:29	U	1
Toluene	108-88-3	<0.000528	0.00200	0.000528	mg/kg	06.26.2020 13:29	U	1
Ethylbenzene	100-41-4	<0.000406	0.00200	0.000406	mg/kg	06.26.2020 13:29	U	1
m,p-Xylenes	179601-23-1	<0.000754	0.00400	0.000754	mg/kg	06.26.2020 13:29	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	06.26.2020 13:29	U	and the second se
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1.4-Difluorobenzene		99		70 - 130	%			
4-Bromofluorobenzene		109		70 - 130	%			



Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id: 7706261-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706261-1-BLK		Date Collecte	ed:		Date 1	Received:		
Analytical Method: TPH by SW8015 Mod					Prep 1	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130203		Date Prep: 06	5.26.2020 10:	:05				
		Prep seq: 77	06261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 11:02	Ų	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 11:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	06.26.2020 11:02	U	1
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chloroostane		72		70 - 135	%			
o-Terphenyl		75		70 - 135	%			
Sample Id: 7706338-1-BLK		Matrix:	Solid		Sampl	e Depth:		
Lab Sample Id: 7706338-1-BLK		Date Collecte	d:		Date F	Received:		
Analytical Method: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130305		Date Prep: 06	.29.2020 09:	27				
		Prep seq: 77	06338					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.000486	0.00200	0.000486	mg/kg	06.29.2020 12:29	U	1
Toluene	108-88-3	<0.000528	0.00200	0.000528	mg/kg	06.29.2020 12:29	U	1
Ethylbenzene	100-41-4	<0.000406	0.00200	0.000406	mg/kg	06.29.2020 12:29	U	I
m,p-Xylenes	179601-23-1	<0.000754	0.00400	0.000754	mg/kg	06.29.2020 12:29	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	06.29.2020 12:29	U	1
Surrogate		% Recovery		Limits	Units	Analysis Date	9	Flag
1,4-Difluorobenzene		99		70 - 130	%			
4-Bromofluorobenzene		102		70 - 130	%			

•

Final 1.000



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. ND Not Detected.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- POL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Page 108 of 124

Form 2 - Surrogate Recoveries

Project Name: Arabian 30-19 1H

Work Orders : 6656	505	• •	Project I	D: 700794.33	32.01	
Lab Batch #: 3130038	Sample: 7/06233-1-BLK./	BLK Bate	En: I Matri IPPOCATE P	GOUERY :	STUDY	
Units: mg/kg BTE	Date Analyzed: 06.25.2020 19:17	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorobenzene	Analytes	0.0295	0,0300	98	70-130	
4-Bromofluorobenzene		0.0285	0.0300	95	70-130	
Lab Batch #• 3130038	Sample: 7706233-1-BKS / I	3KS Bate	h: 1 Matrix	::Solid		
Unite mg/kg	Date Analyzed: 06.25.2020 19:39	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[U]		
1,4-Difluorobenzene		0.0295	0.0300	98	70-130	
4-Bromofluorobenzene		0.0313	0.0300	104	70-130	
Lab Batch #: 3130038	Sample: 7706233-1-BSD / E	BSD Bate SU	h: 1 Matrix RROGATE RI	:Solid E COVERY S	STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4.Difluorobenzene	Anarytes	0.0297	0.0300	99	70-130	
4-Bromofluorobenzene		0.0318	0.0300	106	70-130	
Lab Batch #: 3130038	Sample: 665597-001 S / MS Date Analyzed: 06.25.2020 20:22	Bate SU	h: 1 Matrix RROGATE RJ	:Soil E COVERY §	STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			լոյ		
1,4-Difluorobenzene		0.0295	0.0300	98	70-130	
4-Bromofluorobenzene		0.0336	0.0300	112	/0-130	
ab Batch #: 3130038	Sample: 665597-001 SD / M Date Analyzed: 06.25.2020 20:43	SD Batel SU	h: 1 Matrix RROGATE RI	:Soil E COVERY S	STUDY	
BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorohenzene		0.0301	0.0300	100	70-130	
4-Bromofluorobenzene		0.0319	0.0300	106	70-130	
				6 I		

* 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 / BAll results are based on MDL and validated for QC purposes.

Released to Imaging: 9/20/2022 1:02:46 PM


Project Name: Arabian 30-19 1H

Work Orders :	665605	DIK Det	Project I	D: 700794.33	32.01	
Lab Batch #: 31301	Sample: 7706236-1-BLK /	BLK Bate	ch: 1 Matrix	COVEDN	CTUDY	
Units: mg/kg	Date Analyzed: 06.26.2020 13:29 BTEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluorohenzene	Analytes	0.0298	0.0300	99	70-130	
4-Bromofluorobenzene		0.0230	0.0300	109	70-130	
Lab Batch #: 313019	99 Sample: 7706236-1-BKS /	BKS Batc	ch: I Matrix	:Solid	1	<u>t</u>
Units: mg/kg	Date Analyzed: 06.26.2020 13:49	SU	JRROGATE R	ECOVERY	STUDY	
	3TEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			Ini		
1,4-Difluorobenzene		0.0288	0.0300	96	70-130	
4-Bromofluorobenzene		0.0281	0.0300	94	70-130	<u> </u>
Lab Batch #: 313019 Units: mg/kg	9 Sample: 7706236-1-BSD / 2 Date Analyzed: 06.26.2020 14:10	BSD Bate SU	h: 1 Matrix JRROGATE RI	:Solid ECOVERY S	STUDY	
J	3TEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[0]		
1,4-Difluorobenzene		0.0285	0.0300	95	70-130	
4-Bromofluorobenzene		0.0288	0.0300	90	70-130	
Lab Batch #: 313019 Units: mg/kg	9 Sample: 665605-011 S / MS Date Analyzed: 06.26.2020 14:30	3 Bate SU	h: 1 Matrix RROGATE RI	:Soil ECOVERY S	STUDY	
F	TEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4 Diffuerohenzene	Апануюх	0.0291	0.0300	97	70-130	
4-Bromofluorobenzene		0.0291	0.0300	99	70-130	
	2	(CD) D+44	Moteix	<u>l</u>		
Lab Batch #: 313019	9 Sample: 665605-011 SD7 M Date Analyzed: 06.26.2020 14:51	ASD Batel SU	RROGATE RI	ECOVERY S	STUDY	
E	STEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes					
1,4-Difluorobenzene		0.0292	0.0300	97	70-130	
4-Bromofluorobenzene		0.0287	0.0300	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 / BAll results are based on MDL and validated for QC purposes.

Released to Imaging: 9/20/2022 1:02:46 PM



Project Name: Arabian 30-19 1H

Work Ore	ders : 665€ #• 3130305	505	RLK Bat	Project I	D: 700794.33 x: Solid	32.01	
Units:	mg/kg	Date Analyzed: 06.29.2020 12:29	SU	JRROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluoro	henzene	Allalytts	0.0296	0.0300	99	70-130	t
4-Bromofluc	orobenzene	· · · · · · · · · · · · · · · · ·	0.0307	0.0300	102	70-130	[
Lab Batch #	# 3130305	Sample: 7706338-1-BKS / !	BKS Batc	h: 1 Matrix	:Solid		
Units:	mg/kg	Date Analyzed: 06.29.2020 12:49	SU	 /RROGATE RJ	ECOVERY (STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4-Difluoro	henzenê	Analyics	0.0298	0.0300	99	70-130	İ
4-Bromofluo	probenzene	······	0.0300	0.0300	100	70-130	
Tob Batch #	#• 3130305	 Samule: 7706338-1-BSD / J	RSD Bate	h: 1 Matrix	::Solid	<u> </u>	
Lau Dave	mø/kg	Date Analyzed: 06.29.2020 13:10	SU	RROGATE RI	ECOVERY !	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	ļ!				l
1,4-Difluorob	oenzene		0.0302	0.0300	101	70-130	i
4-Bromotiuo	robenzene		0.0296	0.0300	ן עע	70-150	
Lab Batch # Units:	t; 3130305 mg/kg	Sample: 665605-017 S / MS Date Analyzed: 06.29.2020 13:30	Batel	h: I Matrix: RROGATE RI	Soil	STUDY	
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4-Difluorot	henzene		0.0296	0.0300	99	70-130	1
4-Bromofluo	robenzene		0.0299	0.0300	100	70-130	I
⊤ oh Batch #	#• 3130305	Sample: 665605-017 SD / N	ASD Batc'	h: 1 Matrix	:Soil		
Units:	mg/kg	Date Analyzed: 06.29.2020 13:50	SU	RROGATE RF	SCOVERY 5	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	Truc Amount [B]	Recovery %R	Control Limits %R	Flags
t t Different		Analytes	0.0000	0.0200	100	70-130	
1,4-Diffuoroo	venzene		0.0299	0.0300	99	70-130	
4"Dronnonne			V.V421		1		

* 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 / BAll results are based on MDL and validated for QC purposes.

Released to Imaging: 9/20/2022 1:02:46 PM



Project Name: Arabian 30-19 1H

Work Or	ders: 665	605		Project J	(D: 700794.33	32.01	
Lab Batch	#: 3130037	Sample: 7706231-1-BLK /	BLK Bate	ch: I Matri IPPOCATE P	X:Solid FCOVERV	STUDY	
Units:	mg/kg TPH	Date Analyzed: 06.25.2020 18:32 by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
1 Chloroost		Analytes	82.6	100	83	70-135	
o-Ternhenv			35.4	50.0	71	70-135	· · · · ·
		a 1 770/021 1 DKG /	DVC D-t-	L. 1 Matria	u Salid	1	
Lab Batch	#: 3130037	Sample: 7/06231-1-BKS7	BKS Bate	RROGATE R	COVERY	STUDY	
	ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	ane		109	100	109	70-135	
o-Terphenyl			52.8	50.0	106	70-135	
Lab Batch Units:	#: 3130037 mg/kg	Sample: 7706231-1-BSD / Date Analyzed: 06.25.2020 19:14	BSD Bate SU	h: Matrix RROGATE R	::Solid ECOVERY S	STUDY	
	ТРН	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta	ane		119	100	119	70-135	
o-Terphenyl			58.1	50.0	116	70-135	
Lab Batch :	#: 3130037	Sample: 665597-001 S / MS	S Bate	h: 1 Matrix	Soil		
Units:	mg/kg	Date Analyzed: 06.25.2020 20:15	SU	RROGATE RI	ECOVERY S	STUDY	
	TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta	ine	v	110	99.8	110	70-135	
o-Terphenyl			52.4	49.9	105	70-135	
Lab Batch #	¥: 3130037	Sample: 665597-001 SD / M	ASD Batel	h: 1 Matrix	:Soil		
Units:	mg/kg	- Date Analyzed: 06.25.2020 20:36	SU	RROGATE RI	ECOVERY S	STUDY	
997777	TPH	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Rccovery %R [D]	Control Limits %R	Flags
		v	100		107	70.125	
1-Chloroocta	ine		106	99.5	107	/0-135	

* Surrogate outside of Laboratory QC limits

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

Received by OCD: 12/10/2020 9:22:26 AM

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



Project Name: Arabian 30-19 1H

Work Orders : 665605 Lab Batch #: 3130203 Sample: 7706261-1-BLH Units: mg/kg Date Analyzed: 06.26.2020 11:000	C/BLK Bate)2 SU	Project ch: 1 Matri JRROGATE R	ID: 700794.33 x:Solid RECOVERY	32.01 STUDY	
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.7	100	72	70-135	
o-Terphonyl	37.3	50.0	75	70-135	
Lab Batch #: 3130203 Sample: 7706261-1-BKS	G/BKS Bate	eh: I Matri	x:Solid		
Units: mg/kg Date Analyzed: 06.26.2020 11:2	2 S L	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes	108	100	108	70-135	
	53.0	50.0	106	70-135	
Lab Batch #, 2120202 Sample: 7706261.1.BSF	A BSD Bate	1 b. 1 Matrix	r+Solid	1	
Lab Baten #: 5130205 Sample: 770020141032 Units: mg/kg Date Analyzed: 06.26.2020 11:4	3 SU	RROGATE R	ECOVERY	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
I-Chlorooctane	122	100	122	70-135	
o-Terphenyl	59.9	50.0	120	70-135	
Lab Batch #: 3130203 Sample: 665605-011 S /] Units: mg/kg Date Analyzed: 06.26.2020 12:4	MS Bate 4 SU	h: 1 Matrix RROGATE R	c:Soil ECOVERY §	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes	102	99.8	102	70-135	
o-Tempenyl	49.4	49.9	99	70-135	
I - L Dodak # 2120202	/MSD Boto	h. Matrix	r Soil	L	
Lao baten #: 5150205 Sample: 005005-011 SD	5 SU	RROGATE R	ECOVERY S	STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
ADZIVIES	F	1	4 - 1		
1-Chloroostane	102	99.5	103	70-135	

* 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 / BAll results are based on MDL and validated for QC purposes.

Released to Imaging: 9/20/2022 1:02:46 PM

-
<u>_</u>
_
T
5
-
\sim
0
0
- 1
-
-
0
-
-
0
~
9
-
-
-
\sim
-
\sim
0.5
\sim
-
0
-
-
-
~
-
<u></u>
0
~
- 53
100
9
63
~
0.0
and the second se



BS / BSD Recoveries

Project Name: Arabian 30-19 1H

Sample: 7706233-1-BKS Work Order #: 665605 Lab Batch ID: 3130038 mg/kg MAB Analyst: **Units:**

Date Prepared: 06.25.2020 Batch #: 1

Project ID: 700794.332.01 Date Analyzed: 06.25.2020

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by	EPA 8021	Blank Samole Result	Spike Added	Blank Snike	Blank Snike	Spike	Blank Seite	Blk. Spk		Control	Control	í
Analytes		[A]	a	Result [C]	8% 10	E]	Duplicate Result [F]	сп. К.К.	n %	LIMIUS %R	Limits %RPD	मंबिद
Benzene		<0.000486	0.100	0.105	105	0.100	0.106	106	1	70-130	35	
Toluene		<0.000528	0.100	0.106	106	0.100	0.108	108	6	70-130	35	
Ethylbenzene		<0.000406	0.100	0.103	103	0.100	0.104	104	-	71-129	35	
m_p-Xylenes		<0.000754	0.200	0.211	106	0.200	0.213	107	-	70-135	35	
o-Xylene		<0.000403	0.100	0.105	105	0.100	0.106	106	-	71-133	35	
Analyst: MAB		ä	ate Prepar	ed: 06.26.202	0			Date Al	nalvzed: (06.26.2020		
Lab Batch ID: 3130199	Sample: 7706236-1-B	3KS	Batcl	1 #:]					Matrix: 5	Solid		

Flag %RPD Control Limits 35 35 35 35 35 BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY 70-130 70-130 71-129 71-133 Control Limits 70-135 %R RPD % 4 4 Ч 9 ŝ Blk. Spk Dup. %R [G] 100 8 91 5 66 Blank Spike Duplicate Result [F] 0.0896 0.0912 0.0972 0.0989 0.199 Spike Added 0.100 0.100 0.100 0.200 0.100 Ξ Blank Spike %R [D] 103 102 104 101 97 0.0972 Blank Spike Result 0.102 0.208 0.103 0.101 <u>ত</u> 0.100 0.100 0.100 0.200 0.100 Spike Added <u>ا</u> Sample Result <0.000486 <0.000528 <0.000406 <0.000754 <0.000403 Blank [**A**] BTEX by EPA 8021 Analytes Ethylbenzene m,p-Xylenes o-Xylene Benzene Toluene

mg/kg

Units:

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

Page 40 of 50

Final 1.000

Page 113 of 124

-
_
-
~
0
0
\sim
0
<u> </u>
0
0
~
0
~
51
0
-
-
-
\sim
Trees
1
\circ
~
0
-
~
-
2
-
~
29 - I
· Prod
0
5
2
<u> </u>
0
and the second se



BS / BSD Recoveries

Project Name: Arabian 30-19 1H

Sample: 7706338-1-BKS Work Order #: 665605 Lab Batch ID: 3130305 mg/kg MAB Analyst: Units:

Date Prepared: 06.29.2020

Batch #: 1

Project ID: 700794.332.01 Date Analyzed: 06.29.2020 Matrix: Solid BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EP	A 8021	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk		Control	Control	
	<i>ŏ</i>	ample Result [A]	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R	RPD %	Limits %R	Limits %RPD	Flag
Analytes			[B]	[0]	ē	[E]	Result [F]	[6]				
Benzene		<0.000486	0.100	0.0943	94	0.100	0.0939	94	0	70-130	35	
Toluene		<0.000528	0.100	0.0935	94	0.100	0.0934	93	0	70-130	35	
Ethylbenzene		<0.000406	0.100	0660.0	66	0.100	0.100	100	-	71-129	35	*****
m,p-Xylenes		<0.000754	0.200	0.204	102	0.200	0.204	102	0	70-135	35	
o-Xylene		<0.000403	0.100	0.0992	66	0.100	0.100	100	-	71-133	35	
Analyst: MAB		Da	tte Prepare	ed: 06.26.202	0			Date Ar) alyzed: (06.26.2020]
Lab Batch ID: 3130200	Sample: 7706226-1-B)	KS	Batch	1 #: 1					Matrix: 5	Solid		
Units: mg/kg			BLAN	K /BLANK (SPIKE /]	BLANK (SPIKE DUPI	LICATE	RECOVI	ERY STUI	DY	

Flag

Control Limits %RPD

Control Limits %R

RPD %

Blk. Spk Dup. %R [G]

Blank Spike Duplicate Result [F]

Blank Spike %R [D]

Blank Spike Result [C]

Spike Added

Blank Sample Result

Inorganic Anions by EPA 300/300.1

Analytes Chloride

[Y]

Spike Added

20

90-110

ŝ

105

262

250 E]

102

254

250 8

<0.354

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

Released to Imaging: 9/20/2022 1:02:46 PM

Page 41 of 50

Final 1.000

-
~
× .
1.
0
0
V
0
• •
0
- N
0
- 1
-
-
0
_
\mathbf{n}
<u> </u>
-
-
Press.
-
-
\sim
-
-
()
\sim
\sim
\smile
-
-
- C
-
March 1
-
<u> </u>
-
<u> </u>
0
1
-
A.



BS / BSD Recoveries

Project Name: Arabian 30-19 1H

Date Prepared: 06.26.2020 Batch #: 1 Sample: 7706227-1-BKS Work Order #: 665605 Lab Batch ID: 3130201 mg/kg MAB Analyst: Units:

Project ID: 700794.332.01 Date Analyzed: 06.26.2020 Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

			_							100 A 100		
Inorganic Anions b	y EPA 300/300.1	Blank Sample Result [A]	Spike Addeđ	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %.P	RPD %	Control Limits	Control Limits	Flag
Analytes			B	lcl	a	E	Result [F]	5	۹	Y 0/	%WLD	
Chloride		<0.354	250	253	101	250	261	104	ε	90-110	20	
Analyst: CAC		Da	ate Prepare	d: 06.25.202	0	-		Date A1	nalyzed: 0	6.25.2020		
Lab Batch ID: 3130037	Sample: 7706231-1-	BKS	Batch	#: 1					Matrix: S	solid		
Units: mg/kg			BLANK	K/BLANK	SPIKE / I	3LANK S	SPIKE DUP	LICATE	RECOVI	ERY STUI	DY	

								1				
TPH by	SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits	Flag
Analytes			[B]	[c]	[a]	E	Result [F]	ত্র	2			
Gasoline Range Hydroc	arbons (GRO)	<13.9	1000	743	74	1000	835	84	12	70-135	35	
Diesel Range Organics ((DRO)	<11.5	1000	889	68	1000	985	66	10	70-135	35	
Analyst: MAB			ite Prepare	ed: 06.26.202	0			Date A	nalvzed: (06.26.2020		
Lab Batch ID: 3130203	Sample: 7706261-1-	BKS	Batch	1#: 1					Matrix:	Solid		
Units: mg/kg			BLAN	k /bl ank (1/ 3/105	DI ANK C					,	

							and the second se				
TPH by SW8015 Mod	Blank	Spike	Blank	Blank	Spîke	Blank	Blk. Spk		Control	Control	
	Sample Result	Added	Spike	Spike	Added	Spike	Dup.	RPD	Limits	Limits	Flag
	[A]		Result	%R		Duplicate	%R	%	%R	%RPD	1
Analytes		B	[c]	ā	[E]	Result [F]	[0]				
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	741	74	1000	853	85	14	70-135	35	
							5			<i>.</i> ,	
Diesel Range Organics (DRO)	<11.5	1000	892	89	1000	1020	102	13	70-135	35	
		-									

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

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

Page 42 of 50





Form 3 - MS / MSD Recoveries

Project Name: Arabian 30-19 1H

: Order # : 665	Batch ID: 313	Analyzed: 06.	orting Units: mg
605	30038	25.20	/kg

QC- Sample ID: 665597-001 S 06.25.2020 Date Prepared:

Matrix: Soil Project ID: Analyst: MAB --

Batch #:

700794.332.01

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BT	TEX by EPA 8021	Parent Sample	Snike	Spiked Sample Result	Spiked	Snike	Duplicate	Spiked	444	Control	Control	6
	Analytes	Result [A]	Added [B]	[]	%R %B	Added [E]	opineu calupie Result [F]	ыр. К.К.	n.»	LIMIIS %R	Limits %RPD	रू ह
Benzene		<0.000484	0.0996	0.115	115	8660.0	0.120	120	4	70-130	35	
Toluene		<0.000526	0.0996	0.112	112	9660.0	0.119	119	9	70-130	35	
Ethylbenzene		<0.000405	0.0996	0.0967	97	0.0998	0.112	112	15	71-129	35	
m_p-Xylenes		<0.000751	0.199	0.196	86	0.200	0.227	114	15	70-135	35	***
o-Xylene		<0.000401	0.0996	0.0972	98	0.0998	0.110	110	12	71-133	35	
Lab Batch ID: 31	130199 QC	- Sample ID:	665605-	011 S	Bat	ch #:	1 Matrix	: Soil	-		_	
Date Analyzed: 0t	5.26.2020 Da	te Prepared:	06.26.20)20	An	alyst: N	[AB					
Reporting Units: m	g/kg											

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

ed Duplicate Spiked Control Control Flag ple Spike Spiked Dup. RPD Limits Limits Flag R Added Result [F] %R % %RPD Flag [E] [E] [G] [G] % % % %	0.100 0.0969 97 5 70-130 35	0.100 0.0969 97 4 70-130 35	0.100 0.103 103 4 71-129 35	3 0.201 0.209 104 2 70-135 35	2 0.100 0.105 10 5 3 71-133 35
Spiked Sample Sr Result Sa [C]	0.0925	0.0928	0.0994	0.204	0.102
Spike Added [B]	0.0996	0.0996	0.0996	0.199	0.0996
Parent Sample Result [A]	<0.000484	<0.000526	<0.000405	<0.000751	<0.000401
BTEX by EPA 8021 Analytes	Benzene	Toiuene	Ethylbenzene	m,p-Xylenes	o-Xylene

Matrix Spike Percent Recovery [D] = 100*(C-F)/BRelative 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, J = Interference, N = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Released to Imaging: 9/20/2022 1:02:46 PM

Page 43 of 50

Final 1.000

Received by OCD: 12/10/2020 9:22:26 AM



Form 3 - MS / MSD Recoveries

Project Name: Arabian 30-19 1H

06.29.2020 3130305 665605 mg/kg **Reporting Units:** Work Order # : Date Analyzed: Lab Batch ID:

QC- Sample ID: 665605-017 S Date Prepared: 06.29.2020

Matrix: Soil Analyst: MAB Ч

Batch #:

700794.332.01

Project ID:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

д	TFY by FDA 8031	Parent		Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
4	Analytes	Sample Result [A]	Spike Added [B]	Result [C]	Sample %R [D]	Spike Added [E]	Spiked Sample Result [F]	Dup. %R [G]	RPD %	Limits %R	Limits %RPD	म छ
Benzene		<0.000486	0.100	0.109	109	0.100	0.107	107	6	70-130	35	
Toluene		<0.000529	0.100	0.104	104	0.100	0.100	100	4	70-130	35	
Ethylbenzene		<0.000407	0.100	0.108	108	0.100	0.103	103	S	71-129	35	
m,p-Xylenes		<0.000755	0.200	0.224	112	0.201	0.210	104	9	70-135	35	
o-Xylene		<0.000404	0.100	0.110	110	0.100	0.103	103	7	71-133	35	
Lab Batch ID:	3130200 QC	C- Sample ID:	665597-	-001 S	Bat	ch #:	1 Matrix	:: Soil	-			
Date Analyzed:	06.26.2020 Da	ite Prepared:	06.26.2(020	An:	alyst: M	AB					
Reporting Units:	mg/kg					,						

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	K K
Analytes	Result [A]	Added [B]	Ū	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	D
Chloride	10000	200	10200	100	200	10200	100	0	90-110	20	
											-

Matrix Spike Percent Recovery [D] = 100*(C-F)/BRelative 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.

Released to Imaging: 9/20/2022 1:02:46 PM

Page 44 of 50

Received by OCD: 12/10/2020 9:22:26 AM



Form 3 - MS / MSD Recoveries

Project Name: Arabian 30-19 1H

r#: 665605	D: 313020	edi: 06.26.2(J nits: mg/kg
Work Orde	Lab Batch I	Date Analyz	Reporting L

Analyst: MAB Batch #: QC-Sample ID: 665605-001 S Date Prepared: 06.26.2020

700794.332.01 Matrix: Soil Project ID: -

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorga	unic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flac
	Analytes	Result [A]	Addeđ [B]	[]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	D K
Chloride		9.25	200	195	93	200	196	93	-	90-110	20	
Lab Batch ID:	3130201	QC- Sample ID:	665605-	011 S	Bat	ch #:	l Matrix	: Soil				
Date Analyzed:	06.26.2020 I	Date Prepared:	06.26.2(020	Ans	alyst: N	TAB					
Reporting Units:	mg/kg											

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorga	nic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Kesult [A]	Added [B]	<u></u>	۳% [D]	Added [E]	Result [F]	R%	%	%R	%RPD	
Chloride		6.67	199	196	95	199	196	95	0	90-110	20	Ţ
Lab Batch ID:	3130201	QC- Sample ID:	665605	-021 S	Bat	ch #:	1 Matrix	c: Soil				
Date Analyzed:	06.26.2020	Date Prepared:	06.26.2	020	Ans	alyst: N	(AB					
Reporting Units:	mg/kg											

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

bl Flag	
Contro Limits %RP1	20
Control Limits %R	90-110
RPD %	0
Spikeð Dup. %R [G]	93
Duplicate Spiked Sample Result [F]	192
Spike Addeđ [E]	200
Spiked Sample %R [D]	93
Spiked Sample Result [C]	192
Spike Added [B]	200
Parent Sample Result [A]	6.55
Inorganic Anions by EPA 300/300.1 Analytes	Chloride

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.

Released to Imaging: 9/20/2022 1:02:46 PM

Page 45 of 50



Form 3 - MS / MSD Recoveries

Project Name: Arabian 30-19 1H

•#: 665605	D: 313003'	ed: 06.25.2(nits: mg/kg
Work Orden	Lab Batch I	Date Analyz	Reporting U

Analyst: CAC Batch #: QC- Sample ID: 665597-001 S Date Prepared: 06.25.2020

Matrix: Soil Project ID: -

700794.332.01

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW801	15 Mod	Parent Sample	Snike	Spiked Sample Recult	Spiked	Sniles	Duplicate	Spiked	000	Control	Control	1
Analytes		Result [A]	Added [B]	[C]	%R [D]	Added [E]	apukeu zaimpie Result [F]		%	Limus %R	Limits %RPD	r lag
Gasoline Range Hydrocarbons (GRO)	()	<13.9	866	1000	100	995	968	97	m	70-135	35	
Diesel Range Organics (DRO)		<11.4	866	1120	112	395	1130	114	1	70-135	35	1
Lab Batch ID: 3130203	QC	- Sample ID:	665605-	011 S	Bat	ch #:	1 Matrix	: Soil			-	
Date Analyzed: 06.26.2020	Da	te Prepared:	06.26.20	120	Ans	alyst: N	[AB					
Reporting Units: mg/kg												

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Centrol Limits	130 1
Analytes	Result [A]	Added [B]	Ū	8% [0]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	D
Gasoline Range Hydrocarbons (GRO)	<13.9	866	904	16	995	931	94	3	70-135	35	
Diesel Range Organics (DRO)	<11.4	866	1100	110	995	1120	113	10	70-135	35	

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

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

ND = N ot Detected, J = Present Below Reporting Limit, <math>B = Present in Blank, NR = N ot Requested, J = Interference, N = N of Applicable N = Sec Narrative, EQL = Estimated Quantitation Limit, <math>NC = N on Calculable - Sample amount is > 4 times the amount spiked.

Released to Imaging: 9/20/2022 1:02:46 PM

Page 46 of 50

and the second s
N
0
· · ·
-
A COLUMN A
<u> </u>
And in case of the local division of the loc
~ *
<u> </u>
-
-
~ 1
A COLUMN A
0
00
_
_
D
and the second se

	Mr Leinquisted by	Relinquished by: (Signature) Received by: (Signature) Received by: (Signature)	of scruice. Xence in a communicative feindustanent of samples constitutes a valid purchase order from ellent company to Xence. Its affiliates and subcontract <u>of Xence</u> . A minimum charge of \$35.00 will be applied to each previous assume any responsibility for any losses or expenses incurred by the ellent if such terminative of the ellent if such terminative of the ellent of the ellent if such terminative of the ellent of the ellent is and the ellent of the el	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb N Votice Signature of this document and an analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb N	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sh &s Bo B A	5-52'		2-3 . 5 R (3:08	5-3 0-1	5-2 1.5 CR	5-2 0-1	$5 - 1 - 5 \cdot R$ $30 - 1 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2$	S- 0- Comp Cont B 7 1	Sample Identification Matrix Date Time Depth Grabi # of T P	Corrected Temperature: 3 c C	Sample Custody Seals: Yes (No) N/A Temperature Reading: 7 . X	Cooler Custody Seals: Yes (No NiA Correction Factor 10, TNIMUS) Param	Received Infort Van Version Wet Ice: Yes No neter	PO.#	Sampler's Name: Brand day Since a Tal starts the day non-	Protect Acation 1 Code	Project Number	2/2/14-0/68 Email dadkins@ talon be.com	Phone C 3 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2	ON STAL 710 A 1	Address La Can La Can La Company Name:	Company Non	Atianta, GA (770) 449-8800	تعتمام اللہ اللہ میں معلم میں معلم میں معلم میں معلم میں معلم میں معلم معلم معلم معلم معلم معلم معلم معل	LABORATORIES Midland, TX (432) 704-5440, EL Paso, TX (915) 585-5443, Lubbock,
6185120 15:45	Signature) Received by: (Signature) Date/Time	 encourse or circumstances beyond the control enforced unless previously negotiated. 	rs. It assigns standard torms and conditions	Te P5 Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Mo Ni Se Ag Ti U Lighter that the second									Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₂	NaHSO: NABIS	H2SOJ H2 NaOH: Na	HCL: HC HNO3: HN		rieservauve Codes	SIS REQUEST TO A CONTRACT OF A C	Deliverables: EDD ADaPT Other	Reporting:Level II Level II ESTRIAT France	State of Project;		WWW.xenco.com Page		2 (480) 355-0900 1 El /Red/ seo etc.	× (4-11) 505-5334 X (806) 794-1286 Work Order No: (らうら つく



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 539-3334 Milatand, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 784-1296 Ficbbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Page 47 of 50

Final 1.000

Received by OCD: 12/10/2020 9:22:26 AM 1 VOID: 10/2020 9:22:26 AM

of service. Xenco will be liable only for the cost of samples and shall not assume any unappression of the company to Xenco, its affiliates and subcontractors. It nasigns standard items and conditions Relinquished by: (Signature) Received by: (Signature) Beceived by: (Signature) Received by: (Signature) 3 Date/Time 3 Relinquished by: (Signature) 5 Control	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
ittons ontrol (Signature) Date/Time	Work Order Comments PRP Brownfields PRP Image: Strust I

•

Work Order No: 225605

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: CRCPA Sb Sp Sp Motion: Signature of this document and relinquishment of samples constitutes a valid purchase order from ellent company to Xenso. Sp	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Taxas 11 Al Ch Apple A	5-12 0-1 × 11 12 12 12 12 12 12 12 12 12 12 12 12	$\frac{2-10}{5-11}$	Sample Identification Matrix Date Time Depth Gratil # of H $J = 10^{\circ}$ $O = 1$ $Sq; 1$ $6 = 2, 4 = 20$ $3; 4 \leq 3$ G H A	Cooler Custody Seals: Yes Ko Vio Illermometer Dr. Sample Custody Seals: Yes Ko Ann Compction Rector Fotal Containers: Yes No N/A Temberature Reading: Paran K	PO# TAT starts the day received by SAMPLE RECEIPT Temp Blank: Yes No Received intext Vacous Vacous Yes	Project Number: $200794.332.0$ Image: Rest for the second s	Project Name Arabian 30-19 14 Turn Around 1	City State ZIP: Artesia, NM 88210 City State ZIP:	Company Name: Talon LPE Company Name:	Houston, TX (231) 240-4260, Dallas, TX (23 Midland, TX (231) 240-4260, Dallas, TX (23 Midland, TX (432) 704-5440, EL Paso, TX Hobbs, NM (576) 322-7550, Carlsbad, NM Tampa, FL (813) 620-2000, Tallahassee, FL Allanta, GA
Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1 /7470 /7471 Its affilates and subcontractors. It assigns standard terms and conditions red by the client if such lesses are due to circumstances beyond the control t analyzed. These terms will be enforced anless previously negotiated. Relinguished by: (Signature) Received-by: (Signature) Date/Time 2 (Co Signature) Signature) Signature) Signature (Signature) Signature) Signature (Signature) Signature) Signature (Signature) Neceived-by: (Signature) Signature) Signature (Signature) Signature (Signature) Signature) Signature (Signature) Signatu				NaOH+Ascorbic Acid: SAPC	L CLIC NaHSO4: NABIS Na2S204: NABIS Zn Acetate+NaO4: Zn	Prides Cool: Cool HCL: HC HCL: HC HNO5: HN H2SQ4: H2 N2OH: N2	ANALYSIS REQUEST Preservative Codes	p.g C. Dim Deliverables: EDD ADaPT Other.	State of Project:	White Mork Order Comments	44) 902-0300. San Antonio, TX (210) 508-3334 (915) 585-3443. Lubbock, TX (808) 794-1296 (975) 988-3199. Phoenix, AZ (480) 355-0900 (950) 756-0747, Detray Beach, FL (561) 883-5701 (950) 756-0747, Detray Beach, FL (561) 883-5701

•

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia	Acceptable Temperature Range: 0 - 6 degC										
Date/ Time Received: 06.25.2020 03.45.00 PM	Air and Metal samples	Air and Metal samples Acceptable Range: Ambient									
Work Order #: 665605	Temperature Measuring device used: T NM 007										
Sample Rec	eipt Checklist	Comments									
#1 *Temperature of cooler(s)?	3.6										
#2 *Shipping container in good condition?	Yes										
#3 *Samples received on ice?	Yes										
#4 *Custody Seals intact on shipping container/ cooler?	Yes										
#5 Custody Seals intact on sample bottles?	Yes										
#6*Custody Seals Signed and dated?	Yes										
#7 *Chain of Custody present?	Yes										
#8 Any missing/extra samples?	No										
#9 Chain of Custody signed when relinquished/ received?	Yes										
#10 Chain of Custody agrees with sample labels/matrix?	Yes										
#11 Container label(s) legible and intact?	Yes										
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers									
#13 Samples properly preserved?	Yes										
#14 Sample container(s) intact?	Yes										
#15 Sufficient sample amount for indicated test(s)?	Yes										
#16 All samples received within hold time?	Yes										
#17 Subcontract of sample(s)?	N/A										
#18 Water VOC samples have zero headspace?	N/A										

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

Received by OCD: 12/10/2020 9:22:26 AM

PH Device/Lot#:

Checklist completed by:

Martha Castro

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 06.26.2020

Date: 06.25.2020

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Talon LPE	329944
408 W Texas	Action Number:
Artesia, NM 88210	11697
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/20/2022

Page 124 of 124

Action 11697

.