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	on 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. Butte	111110.30 023 43170

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 KELEAGE	
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	
Was Immediate Notice Given?		RECEIVED By Olivia Yu at 9:23 am, Nov 17, 2017
By Whom? Mike Shoemaker, EHS Professional	Date and Hour: OCD: 10/25/17 @ 7:24 PM M	• • • •
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	<i>2</i> 1	5 1

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 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

Page 4 of 124



Shoemaker, Mike
Yu, Olivia, EMNRD
Fulks, Brett
Spill Notification for the Arabian 30-19 Fed Com 1H (API #30-025-43176)
Wednesday, October 25, 2017 7:24:28 PM
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		
	02/13/2018 COTTON DRAW WATER PIT NONE GIVEN	02/13/2018Sampling Type:COTTON DRAW WATER PITSampling Condition:NONE GIVENSample 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	% 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*	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 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:	<u>"Clifford Kirchof"</u>
Cc:	<u>Shoemaker, Mike; Adam Calvin; Delfino Escalante III; Andrew Romo; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD</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
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
То:	Mann, Ryan; Yu, Olivia, EMNRD
Cc:	<u>Shoemaker, Mike; Adam Calvin; Delfino Escalante III; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Patrick</u> <u>Windham</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
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			-				PHONE (OPT	IONAL)			•
l S	ROCK	ROCKHOUSE RANCH INC.							575-995-6920			
GENERAL AND WELL LOCATION		WELL OWNER MAILING ADDRESS 1108 W PIEARCE ST.						CARLSE	CITY STATE ZIP CARLSBAD NM 88220			
A Q		T		DEGREE	S MINÚTE	S SECONI	DS .	l				······
ALAN	WELL LOCATION	ом	LATIT		09	22	N	4 ·	REQUIRED: ONE TEN	ITH OF A SEC	OND	· .
ER	(FROM G	PS)	LONG	ID3 TTUDE	44	31	Ŵ	* DATUM RE	QUIRED: WGS 84			
E	DESCRIPTIC	N RELATI	NGWE	LLOCATION TO STREE	ET ADDRESS AND COMM	NON LANDMARKS - PLS	S (SECTION, TO	JWNSHJIP, RANG	E) WHERE AVAILABLE			
1.0	SE 1/4,	NE 1/4	4, SE	E 1/4, SECTIC	N 2, TOWNSH	IIP 25S, RANG	GE 31E	<i>k</i> .				
	LICENSE N WD-160			NAME OF LICENSED					DURAN DRIL		ANY	
	DRILLING	STARTED		DRILLING ENDED	DEPTH OF COMPLET	TED WELL (FT)	BORE HOL	E DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNT	ERED (FT	
	1/28/15			02/15	451		450		300			
						A	<u> </u>		STATIC WATER LEV	VEL IN COMP	ETED WI	LL (FT)
+	COMPLETE	D WELL	is: C	ARTESIAN	O DRY HOLE	SHALLOW (UNCO	ONFINED)					(
DRILLING & CASING INFORMATION	DRILLING I	FLUID:	<u> </u>	AIR	MUD	ADDITIVES - SPE	CIFY: DR	ILLING M	1 UD			
RMA	DRILLING N	METHOD:	G	ROTARY	C HAMMER C	CABLE TOOL	C OTHE	R – SPECIFY:				
NFO	DEPTH	(feet bg	1)	BORE HOLE	CASING MATERIAL AND/OR		edic.	CASING	CASING	WATT	SLOT	
СП			DIAM	GRADE		CASING CONNECTION		INSIDE DIAM. THICKNESS			SLOI	
SIN	(inches)		(include each casing string, and note sections of screen)		Т	YPE	(inches)			(inches)		
CA	0	220		12	STEEL			PERF 7		1/4 ⋛		<u>با</u> ک
G&	220	450		12	STEEL PERI		STEEL		7			1/8
EIN						• •			•	1/4		
SIL					<u>}</u>		<u> </u>					<u>p</u>
2. DI					· · · · · ·					······································		
~				· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·			<u> </u>
	······································									1.0		<u>p</u>
					1					4) (2)	<u> </u>
			(· · ·		•		L		
	DEPTH	(feet bgl) [BORE HOLE	LIST AN	NULAR SEAL MA	TERIAL A	ND	AMOUNT		METHO	D OF
AL	FROM	TO		DIAM. (inches)	GRAVEL P.	ACK SIZE-RANGE	E BY INTER	VAL	(cubic feet)		PLACEM	
ERI	0	-20		12	20 BGS 80 L	BS CEMENT				MIX	ER	
ATA	20	450		12	22 YARDS 1/	4" GRAVEL						
RA												
ANNULAR MATERIAL												
R		<u></u>										
2												
~						······						
•		•••••										
	OSE INTERI	NAL US	E			••••••••••••••••••••••••••••••••••••••		WR-20	WELL RECORD &	د LOG (Vers	ion 06/08	/2012)
FILE	NUMBER	C-3	382	30		POD NUMBER	ŀ	TRN N	UMBER 510	000	S	
	3	SS:	3IA	.2.4.25	4	<u> </u>				5.		
	-			<u> </u>					- D	٣Ç		

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
500	378	384	6	CALY
EOI	384	448	64	SAND
ROG	448	450	2	RED BED
4. HYDROGEOLOGIC LOG OF WELL				
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	
4. HYDROGEOLOGIC LOG OF WELL	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 ESTIMATE YIELD OF WATER-BEARING STRATA: O PUMP TOTAL ESTIMATED								
						J . O			15
	O AIR LIF	T 🔘		OTHER - SPECIFY:				WELL YIELD (gpm)	15
	O AIR LIF		BAILER (WELL YIELD (gpm)	
ON	O AIR LIF	TEST	BAILER (OTHER – SPECIFY: TTACH A COPY OF DA'	TA COLLECTED D	JRING WELL	TESTING, INCL	WELL YIELD (gpm)	METHOD,
VISION	WELL TE	ST TEST STAR	BAILER (TACH A COPY OF DA	TA COLLECTED D	JRING WELL	TESTING, INCL	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PBR	METHOD, OD.
PERVISION	WELL TE	ST TEST STAR	BAILER (RESULTS - AT T TIME, END	TACH A COPY OF DA	TA COLLECTED D	JRING WELL	TESTING, INCL	WELL YIELD (gpm)	
SUPERVISION	WELL TE	ST TEST STAR	BAILER (RESULTS - AT T TIME, END	TACH A COPY OF DA	TA COLLECTED D	JRING WELL	TESTING, INCL	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PBR	METHOD, OD. 37
RIG SUPERVISION	WELL TE	ST TEST STAR	BAILER (RESULTS - AT T TIME, END	TACH A COPY OF DA	TA COLLECTED D	JRING WELL	TESTING, INCL	WELL YIELD (gpm)	
EST; RIG SUPERVISION	WELL TES	ST TEST STAR	BAILER (RESULTS - AT T TIME, END '	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)	
5. TEST; RIG SUPERVISION	WELL TES MISCELLA PRINT NA	ST TEST STAR	BAILER (RESULTS - AT T TIME, END '	TACH A COPY OF DA	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	
5. TEST; RIG SUPERVISION	WELL TES MISCELLA PRINT NA	ST TEST STAR	BAILER (RESULTS - AT T TIME, END '	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)	
5. TEST; RIG SUPERVISION	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST STAR ANEOUS INF ME(S) OF DI DURAN	BAILER (RESULTS - AT T TIME, END TORMATION: RILL RIG SUP	TACH A COPY OF DA TIME, AND A TABLE S ERVISOR(S) THAT PRC	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA PERVISION C R KNOWLED	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
ż.	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST STAR THEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP	TTACH A COPY OF DA' TIME, AND A TABLE S REPUBLIC STREET	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU EST OF HIS OR HE ND THAT HE OR SH	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
ż.	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST STAR THEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP	TACH A COPY OF DA TIME, AND A TABLE S ERVISOR(S) THAT PRC TFIES THAT, TO THE B	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU EST OF HIS OR HE ND THAT HE OR SH	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
ż.	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST STAR THEOUS INF ME(S) OF DI DURAN ERSIGNED F RECORD O	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP	TACH A COPY OF DA TIME, AND A TABLE S ERVISOR(S) THAT PRO THES THAT, TO THE B DESCRIBED HOLE AN 120 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR OVIDED ONSITE SU DEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WEL	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE , DRILLING:	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
6. SIGNATURE 5. TEST; RUG SUPERVISION	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED H RECORD O PERMIT HO	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN	TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TIFIES THAT, TO THE B E DESCRIBED HOLE AN V 20 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE , DRILLING:	TESTING, INCL WDOWN OVER	WELL YIELD (gpm)	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
SIGNATURE 5.	WELL TES MISCELLA PRINT NAJ LUIS A.	TEST ST TEST STAR ANEOUS INF ME(S) OF DI DURAN ERSIGNED H RECORD O PERMIT HO	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN	TACH A COPY OF DA TIME, AND A TABLE S ERVISOR(S) THAT PRO THES THAT, TO THE B DESCRIBED HOLE AN 120 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE , DRILLING:	TESTING, INCL WDOWN OVER	WELL YIELD (gpm) UDING DISCHARGE THE TESTING PIRA THE TESTING PIRA TRUCTION OTHER F, THE FOREGOING CORD WITH THE ST	METHOD, OD. 202 TT TT TT HAN LICENSEE: TI TAN LICENSEE:
6. SIGNATURE 5.	WELL TEX MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST STAR TEST STAR STAR STAR STAR STAR STAR STAR ST	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN URE OF DRIL	TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TIFIES THAT, TO THE B E DESCRIBED HOLE AN V 20 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR DVIDED ONSITE SU DVIDED ONSITE SU DEST OF HIS OR HE ID THAT HE OR SH IPLETION OF WEL S M. DUM 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 L RECORD & LOG (V	METHOD, OD. 202 Info Info Info Info Info Info Info Info
6. SIGNATURE 5.	WELL TEX MISCELLA PRINT NAL LUIS A. THE UNDE CORRECT AND THE	TEST STAR TEST STAR STAR STAR STAR STAR STAR STAR ST	BAILER RESULTS - AT T TIME, END ORMATION: ORMATION: RILL RIG SUP HEREBY CERT F THE ABOVE LOER WITHIN	TTACH A COPY OF DA' TIME, AND A TABLE S ERVISOR(S) THAT PRO TFIES THAT, TO THE B E DESCRIBED HOLE AN V 20 DAYS AFTER COM	TA COLLECTED DI HOWING DISCHAR	JRING WELL GE AND DRA PERVISION C R KNOWLED IE WILL FILE , DRILLING:	TESTING, INCL WOOWN 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 1 - 02 - 15 DATE L RECORD & LOG (N	METHOD, OD. 57 TEL TEL TEL TEL TEL TEL TEL TEL TEL TEL

5

. .

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, 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

Docoivod:



02/12/2010

Analytical Results For:

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

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: 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/	mg/L		Analyzed 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		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	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 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	on 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)				
	Facility Type Oil			

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

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	. 30-025-43	3176		
LOCATION OF RELEASE							
Unit LetterSectionTownshipRangeFeet from theNuH2725S31E	rth/South Line Feet from the East/West Line			County 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 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							

	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		
		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: 11/17/2017 Expiration Date:				
E-mail Address: denise.menoud@dvn.com	Conditions of Approval:				
PelepOY1732141384 12 1 POY1732141830	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
To:	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

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

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.

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 watercourse or any other significant watercourse
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or playa lake
□Yes ⊠No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
∐Yes ⊠No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spring Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
□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 Closure Criteria for Soils		
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/I 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)	MRO (mg/kg)	TPH (mg/kg)	Cl (mg/kg)
	osure Cr 15.29.12		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
6.4	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	2	9.15
6.2	0-1	6/24/2020	ND	ND	ND	ND	ND	-	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
S-3	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	9.43
6.4	0-1	6/24/2020	ND	ND	ND	ND	ND	-	9.52
S-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) -	8.88
S-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
S-6	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.2
67	0-1	6/24/2020	ND	ND	ND	ND	ND		10.1
S-7	1.5 R	6/24/2020	ND	ND	ND	ND	ND		9.73
S-8	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 0	0-1	6/24/2020	ND	ND	ND	ND	ND	-	9.73
S-9	1.5 R	6/24/2020	ND	ND	ND	ND	ND		10.9
C 10	0-1	6/24/2020	ND	ND	ND	ND	ND	0 	6.55
S-10	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10.6
C 11	0-1	6/24/2020	ND	ND	ND	ND	ND	æ	11.9
S-11	1.5 R	6/24/2020	ND	ND	ND	ND	ND	-	11.5
C 10	0-1	6/24/2020	ND	ND	ND	ND	ND	-	11.2
S-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

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









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

National Flood Hazard Layer FIRMette



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



Page 58 of 124

500

1,000

1,500

2,000

Feet

1:6,000

103°45'10"W 32°5'55'

unmapped and unmodernized areas cannot be used for

Received by OCD: 12/10/2028.333326.414

FLOOD HAZARD SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT HAZARD AREAS SPECIAL FLOOD Legend OTHER AREAS STRUCTURES | 1111111 Levee, Dike, or Floodwall MAP PANELS reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, This map image is void if the one or more of the following map become superseded by new data over time. was exported on 11/4/2020 at 5:49 PM and does not authoritative NFHL web services provided by FEMA. This map accuracy standards The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below. This map complies with FEMA's standards for the use of The flood hazard information is derived directly from the FEATURES GENERAL OTHER (e) -Ŷ NO SCREEN Area of Minimal Flood Hazard Zone X N an authoritative property location. The pin displayed on the map is an approximate point selected by the user and does not represe X 20.2 17.5 Area with Flood Risk due to Levee Zone D Channel, Culvert, or Storm Sewer Unmapped Hydrographic Feature Limit of Study Water Surface Elevation Cross Sections with 1% Annual Chance Effective LOMRs of 1% annual chance flood with average **Regulatory Floodway** With BFE or Depth Zone AE, AO, AH, VE, AR **Digital Data Available Profile Baseline Coastal Transect Baseline** Base Flood Elevation Line (BFE) Coastal Transect Area of Undetermined Flood Hazard Zone Levee. See Notes. Zone X Area with Reduced Flood Risk due to Chance Flood Hazard Zone X areas of less than one square mile Zone) depth less than one foot or with drainag 0.2% Annual Chance Flood Hazard, Area Without Base Flood Elevation (BFE) Zone A, V, A99 No Digital Data Available Jurisdiction Boundary Future Conditions 1% Annual



<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

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



		Vew Mexico Office er Column/Av		0	
(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 C 02250	POD Sub- Code basin CUB	Q Q Q County 6416 4 Sec Tws Rng ED 3 1 4 21 25S 31E	614912 3553620* 🌍 Average	stanceDepthWellDept 2537 400 Depth to Water: Ainimum Depth: aximum Depth:	Water thWater Column 390 10 390 feet 390 feet 390 feet
Record Count:1 UTMNAD83 Radiu Easting (X): 61 *UTM location was derive	7187.9	Northing (Y): 3552497	Radius: 3000		

11/3/20 3:49 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



APPENDIX III

FINAL C-141

Page 64 of 124

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

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		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: Crys BLM: Shell	tal Weaver & Mike Bratcher y Tucker
By Whom? Mike Shoemaker, EHS Professional		0/17, 5:46 PM 0/17, 5:46 PM
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.
If a Watercourse was Impacted, Describe Fully.* NA		By Olivia Yu at 10:37 am, Nov 17, 2017
contract company reassembled the end to the hose they failed to the 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 c and the clamps were tightened. Ind West from the rupture point locate 19 Fed Com 1H well pad. An estima	of produced water was released with 0 d approximately at 32.102724 N, ated 397 barrels of treated produced water
I hereby certify that the information given above is true and complete to t regulations all operators are required to report and/or file certain release r public health or the environment. The acceptance of a C-141 report by th should their operations have failed to adequately investigate and remediat or the environment. In addition, NMOCD acceptance of a C-141 report d federal, state, or local laws and/or regulations.	otifications and perform corrective as e NMOCD marked as "Final Report" e contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
	OIL CONSER	VATION DIVISION
	Approved by Environmental Special	st: Off
Printed Name: Denise Menoud Title: Admin Field Support	Approval Date: 11/17/2017	Expiration Date:
	Conditions of Approval:	Attached
	see attached directive	1RP-4872

[]		
_	10/01/0017					
Date:	10/24/2017	Phone:	(575)746-5544	[
	A 1112 1 01	4 1031				

* 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.

lobulo rippio ed oy.	APPROVED	Date:	_
	By Ashley Maxwell at 1:00 pm, Sep 20, 2022		
rinted Name:			



APPENDIX IV

PHOTOGRAPHIC DOCUMENTATION

Page 70 of 124

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

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 Method: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 0	5.26.2020 08	:41				
500 Humon. 5150200		Prep seq: 7						
Parameter	CAS	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	Number 16887-00-6	9,25	9.94	0.352	mg/kg	06.26.2020 13:38	J	1
Chioria								
Analytical Method: TPH by SW8015 Mod	đ				Prep I	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 06	5,25,2020 16	:48				
		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
		12.2		12.0			τĭ	1
Gasoline Range Hydrocarbons (GRO)	PHC610 C10C28DRO	<13.8 <11.4	49.8 49.8	13.8 11.4	mg/kg mg/kg	06.26.2020 00:21 06.26.2020 00:21	บ บ	1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHCG28DRO	<11.4 <11.4	49.8 49.8	11.4	mg/kg	06.26.2020 00:21	U	1
Total TPH	PHC635	<11.4	19.0	11.4	mg/kg	06.26.2020 00:21	Ū	
Surrogate		% Recovery		Limits	Units	Analysis Date	:	Flag
l-Chlorooctane o-Terphenyl		94 98		70 - 135 70 - 135	%			
					Dren M	Aethod: 5035A		
Analytical Method: BTEX by EPA 8021		% Moist:			Tech:	MAB		
Analyst: MAB			25 2020 16.	50	rech.	MAD		
Seq Number: 3130038		Date Prep: 06		.52				
		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	100-41-4	<0.000407	0.00200	0.000407	mg/kg	06.26.2020 02:06	U	1
m_p-Xylenes	179601-23-1 95-47-6	<0.000755	0.00401	0.000755	mg/kg	06.26.2020 02:06	บ บ	1 1
	97-47-6	<0.000404	0.00200	0.000404 0.000404	mg/kg mg/kg	06.26.2020 02:06 06.26.2020 02:06	υ	1
o-Xylene		<0.000404						
Xylenes, Total	1330-20-7	<0.000404 <0.000404						
•		<0.000404 <0.000404		0.000404	mg/kg	06.26.2020 02:06	U	
Xylenes, Total							U	Flag
Xylenes, Total Total BTEX		<0.000404		0.000404	mg/kg	06.26.2020 02:06	U	Flag



Page 79 of 124

Certificate of Analytical Results 665605

Talon LPE-Artesia, Artesia, NM

•

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

Sample Id: S-1 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-002		Date Collecte	ed: 06.24.202	20 12:56	Date 1	Received: 06.25.202	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep 1	victhod: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 0	5.26.2020 08:	:41				
beq Humber. 5150200		Prep seq: 7						
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 Mo	d				Prep N	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
5		Date Prep: 00	5 25 2020 16.	48				
Seq Number: 3130037		1		10				
Parameter	CAS Number	Prep seq: 77 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
		<12.0	40.0	13.8	mg/kg	06.26.2020 00:42	U	
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<13.8 <11.4	49.9 49.9	15.8	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	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 00:42	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	:	Flag
1-Chlorooctane o-Terphenyl		88 92		70 - 135 70 - 135	% %			
- 1.4 1.1.1. DTEV 1 EDA 9023					Pren N	Aethod: 5035A		
•		94 Moint			-	Aethod: 5035A		
Analyst: MAB		% Moist:	1 20 20 20 16.	50	Prep M Tech:	Aethod: 5035A MAB		
Analyst: MAB		Date Prep: 06		52	-			
Analyst: MAB				52	-	MAB		
Analyst: MAB	CAS Number	Date Prep: 06		52 SDL	-		Flag	Dil Factor
Analyst: MAB Seq Number: 3130038	Number 71-43-2	Date Prep: 06 Prep seq: 77 Result <0.000487	706233 MQL 0.00201	SDL 0.000487	Tech: Units mg/kg	MAB Analysis Date 06.26.2020 02:28	U	1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530	706233 MQL 0.00201 0.00201	SDL 0.000487 0.000530	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28	U U U]]
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408	706233 MQL 0.00201 0.00201 0.00201 0.00201	SDL 0.000487 0.000530 0.000408	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	U U U U	1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000487 <0.000408 <0.000408 <0.000757	706233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	U U U]]]
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408	706233 MQL 0.00201 0.00201 0.00201 0.00201	SDL 0.000487 0.000530 0.000408	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	U U U U]]]
Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000408 <0.000408 <0.000757 <0.000405	706233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	U U U U U]]]
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408 <0.000757 <0.000405 <0.000405	706233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	บ บ บ บ บ บ]]]
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408 <0.000757 <0.000405 <0.000405 <0.000405	706233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28 06.26.2020 02:28	บ บ บ บ บ บ	1 1 1



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 Io	d: 665605-003		Date Collect	ed: 06.24.202	20 13:00	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130200		Date Prep: 0	6.26.2020 08	:41				
beq rainber.	3130200		Prep seq: 7						
Parameter	r	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 Me	thod: TPH by SW8015 Mo	d				Prep N	Acthod: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
•			Date Prep: 00	5.25.2020 16:	48				
Seq Number:	3130037		•		10				
Parameter	r	CAS Number	Prep seq: 72 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
		PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 01:02	U	1
	ange Hydrocarbons (GRO) ge Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 01:02	Ŭ	1
	nge 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
1-Chlorooct o-Terpheny			85 93		70 - 135 70 - 135	% %			
	-								
Analytical Met						Prep N	fethod: 5035A		
•	thod: BTEX by EPA 8021		% Moist:			Prep M Tech:	Aethod: 5035A MAB		
Analyst:	thod: BTEX by EPA 8021 MAB			25 2020 16:	52	-			
Analyst:	thod: BTEX by EPA 8021		% Moist: Date Prep: 06 Prep seq: 77		52	-			
Analyst:	thod: BTEX by EPA 8021 MAB 3130038	CAS Number	Date Prep: 06		52 SDL	-		Flag	Dil Factor
Analyst: Seq Number:	thod: BTEX by EPA 8021 MAB 3130038		Date Prep: 06 Prep seq: 77	06233	SDL 0.000485	Tech: Units mg/kg	MAB Analysis	U	Dil Factor
Analyst: Geq Number: Parameter Benzene Toluene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527	06233 MQL 0.00200 0.00200	SDL 0.000485 0.000527	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49	ប ប	1
Analyst: Beq Number: Parameter Benzene Toluene Ethylbenzen	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06233 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	ប ប ប	1 1
Analyst: Beq Number: Parameter Benzene Toluenc Ethylbenzen m_p-Xylene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	บ บ บ บ	1 1 1
Parameter Benzene Toluene Ethylbenzen m_p-Xylene o-Xylene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	06233 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ	1 1
Analyst: Seq Number: Parameter Benzene Toluenc Ethylbenzen m_p-Xylene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49 06.26.2020 02:49	บ บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluenc Ethylbenzen m_p-Xylene o-Xylene Xylenes, To	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m_p-Xylene o-Xylene Xylenes, To Total BTEX	thod: BTEX by EPA 8021 MAB 3130038 ne rs tal	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402 <0.000402 <0.000402	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1



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 Io	d: 665605-004		Date Collect	ed: 06.24.20	20 13:03	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by E	PA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:			Date Prep: 0	6.26.2020 08	:41				
Seq Ivaniber.	5150200		Prep seq: 7						
Paramete		CAS	Result	MQL	SDL	Units	Analysis	Flag	Dil Factor
Chloride		Number 16887-00-6	9,56	9.98	0.353	mg/kg	Date 06.26.2020 14:30		1
Cintrac		10007 00 0	760		0.000				
Analytical Me	ethod: TPH by SW8015 Mod					Prep N	Method: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
Seq Number:			Date Prep: 00	5.25.2020 16:	:48				
boq Munioer.	5150057		Prep seq: 7						
		CAS	riep seq. 7	/00251			Analysis		Dil Factor
Parameter	r	Number	Result	MQL	SDL	Units	Date	Flag	Dit Pactor
Gasoline Ra	ange Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 01:23	U	1
	ge Organics (DRO)	C10C28DRO	<11.5	50.0	11,5	mg/kg	06.26.2020 01:23	υ	1
	ange Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11,4	mg/kg	06.26.2020 01:23	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 01:23	U	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
1-Chiorooct o-Terpheny			90 93		70 - 135 70 - 135	% %			
o-Terpheny	4					%	Aethod: 5035A		
o-Terpheny Analytical Met	ار thod: BTEX by EPA 8021		93			% Prep N	Aethod: 5035A MAB		
o-Terpheny Analytical Met Analyst:	ار thod: BTEX by EPA 8021 MAB		93 % Moist:	25 2020 16:	70 - 135	%	Aethod: 5035A MAB		
o-Terpheny Analytical Met	ار thod: BTEX by EPA 8021		93 % Moist: Date Prep: 06		70 - 135	% Prep N			
o-Terpheny Analytical Met Analyst:	4 thod: BTEX by EPA 8021 MAB 3130038	CAS Number	93 % Moist:		70 - 135	% Prep N		Flag	Dil Factor
o-Terpheny Analytical Met Analyst: Seq Number:	4 thod: BTEX by EPA 8021 MAB 3130038		93 % Moist: Date Prep: 06 Prep seq: 77	06233 MQL 0.00199	70 - 135 52	% Prep N Tech: Units mg/kg	MAB Analysis Date 06.26.2020 03:10	U	1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzenc Toluene	/l thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	06233 MQL 0.00199 0.00199	70 - 135 52 52 0.000483 0.000525	% Prep N Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:10 06.26.2020 03:10	U U	1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzenc Toluene Ethylbenzen	/l thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	06233 MQL 0.00199 0.00199 0.00199	70 - 135 52 52 0.000483 0.000525 0.000404	% Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Datc 06.26.2020 03:10 06.26.2020 03:10 06.26.2020 03:10	U U U U	1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzenc Toluenc Esthylbenzen m_p-Xylene	/l thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	70 - 135 52 52 0.000483 0.000525 0.000404 0.000749	% Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Datc 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
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m_p-Xylene o-Xylene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	06233 MQL 0.00199 0.00199 0.00199	70 - 135 52 52 0.000483 0.000525 0.000404 0.000749 0.000401	% Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzenc Toluene Ethylbenzen m_p-Xylene	rl thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	70 - 135 52 52 0.000483 0.000525 0.000404 0.000749	% Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Datc 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
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m_p-Xylene o-Xylene Xylenes, Tot Total BTEX	rl thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	70 - 135 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	% Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m_p-Xylene o-Xylene Xylenes, Tot	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 % Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	70 - 135 52 52 52 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	% Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	1 1 1 1



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		
		Date Prep: 0	6.26.2020-08	:41				
Seq Number: 3130200		Prep seq: 7						
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		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 0	5.25.2020 16:	:48				
beq rumber. 5150057		Prep seq: 7						
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	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1-Chlorooctane		90		70 - 135	%			
o-Terphenyl		93		70 - 135	%			
Analytical Method: BTEX by EPA 8021					Prep N	Aethod: 5035A		
•		% Moist;			Prep N Tech:	4ethod: 5035A MAB		
Analyst: MAB		% Moist: Date Prep; 06	5.25.2020 16:	52	•			
Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038				52	•			
Analyst: MAB	CAS Number	Date Prep: 06		52 SDL	•		Flag	Dif Factor
Analyst: MAB Seq Number: 3130038		Date Prep: 06 Prep seq: 77 Result <0.000489	206233 MQL 0.00202	SDL 0.000489	Tech: Units mg/kg	MAB Analysis Date 06.26.2020 03:32	U	1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532	06233 MQL 0.00202 0.00202	SDL 0.000489 0.000532	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32	U U	[1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409	06233 MQL 0.00202 0.00202 0.00202	SDL 0.000489 0.000532 0.000409	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	U U U	[1 1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	U U U U U	[1 1 1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406	06233 MQL 0.00202 0.00202 0.00202	SDL 0.000489 0.000532 0.000409	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:32 06.26.2020 03:32 06.26.2020 03:32	U U U	[1 1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U	1 1 1 1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U U U	1 1 1 1
Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U U U	1 1 1 1



665605

•

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

Talon LPE-Artesia, Artesia, NM

S-31.5' R		Matrix:	Soil		Samp	le Depth:		
: 665605-006		Date Collect	ed: 06.24.202	20 13:08	Date	Received: 06.25.20	20 15:	45
hod: Inorganic Anions by E	PA 300/300.1				Prep I	Method: E300P		
MAB		% Moist:			Tech:	MAB		
3130200		Date Prep: 0	6.26.2020 08	:41				
5150200		•						
	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
	16887-00-6	9.43	9.84	0.348	mg/kg	06.26.2020 14:45	J	1
hod: TPH by SW8015 Mod					Prep N	Method: 8015		
CAC		% Moist:			Tech:	CAC		
3130037		Date Prep: 06	5.25.2020 16:	48				
		Prep seq: 7	706231					
	CAS Number	Result	MQL	SDL	Units	Anałysis Date	Flag	Dil Factor
nge Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 02:04	U	1
e Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 02:04	U	1
gc Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.26.2020 02:04	U	1
	PHC635	<11.4		11.4	mg/kg	06.26.2020 02:04	U	
		% Recovery		Limits	Units	Analysis Date	•	Flag
ane		89		70 - 135	%			
		92		70 - 135	%			
and DTEV by EDA 8021					Pren A	Aethod: 5035A		
nod: BTEX by EPA 8021		% Majet			-	Aethod: 5035A		
MAB		% Moist:	26 2020 16	52	Prep N Tech:	Method: 5035A MAB		
-		Date Prep: 06		52	-			
MAB				52	-	MAB		
MAB	CAS Number	Date Prep: 06		52 SDL	-		Flag	Dil Factor
MAB		Date Prep: 06 Prep seq: 77	06233	SDL 0.000483	Tech: Units mg/kg	MAB Analysis Date 06.26.2020 03:53	U	1
MAB	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	06233 MQL 0.00199 0.00199	SDL 0.000483 0.000525	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53	U U	1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	06233 MQL 0.00199 0.00199 0.00199	SDL 0.000483 0.000525 0.000404	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	บ บ บ	1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	U U U U	1 1 1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	06233 MQL 0.00199 0.00199 0.00199	SDL 0.000483 0.000525 0.000404 0.000749 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U	1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53 06.26.2020 03:53	U U U U	1 1 1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U U	1 1 1
MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	06233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U U	1 1 1
	: 665605-006 hod: Inorganic Anions by E MAB 3130200 hod: TPH by SW8015 Mod CAC 3130037 nge Hydrocarbons (GRO) : Organics (DRO) ge Hydrocarbons (MRO)	: 665605-006 hod: Inorganic Anions by EPA 300/300.1 MAB 3130200 CAS Number 16887-00-6 hod: TPH by SW8015 Mod CAC 3130037 CAS Number ige Hydrocarbons (GRO) 2 Organics (DRO) 2 Organics (DRO) PHC610 C10C28DRO PHC635	c 665605-006 Date Collect hod: Inorganic Anions by EPA 300/300.1 MAB MAB % Moist: 3130200 Date Prep: 0 Prep seq: 7 CAS Result 16887-00-6 9.43 hod: TPH by SW8015 Mod 9.43 CAC % Moist: 3130037 Date Prep: 00 Prep seq: 7 CAS % Moist: 3130037 Date Prep: 00 Prep seq: 7 CAS % Moist: 3130037 Date Prep: 00 Prep seq: 7 CAS Number Ige Hydrocarbons (GRO) PHC610 <13.8	0-5115 R Intervention : 665605-006 Date Collected: 06.24.202 hod: Inorganic Anions by EPA 300/300.1 MAB MAB % Moist: 3130200 Date Prep: 06.26.2020 08. Prep seq: 7706226 CAS Result MQL 16887-00-6 9.43 9.84 hod: TPH by SW8015 Mod Kast State Prep: 06.25.2020 16: CAC % Moist: State Prep: 06.25.2020 16: 3130037 Date Prep: 06.25.2020 16: Prep seq: 7706231 CAS Number MQL Inge Hydrocarbons (GRO) PHC610 <13.8	control R Date Collected: 06.24.2020 13:08 hod: Inorganic Anions by EPA 300/300.1 MAB MAB % Moist: 3130200 Date Prep: 06.26.2020 08:41 Prep seq: 7706226 CAS Result MQL SDL 16887-00-6 9.43 9.84 0.348 hod: TPH by SW8015 Mod CAC % Moist: 3130037 Date Prep: 06.25.2020 16:48 Prep seq: 7706231 CAS Number MQL SDL inge Hydrocarbons (GRO) PHC610 <13.8	construct Date Collected: 06.24.2020 13:08 Date I hod: Inorganic Anions by EPA 300/300.1 Prep I MAB % Moist: Tech: 3130200 Date Prep: 06.26.2020 08:41 Prep I Prep seq: 7706226 CAS MQL SDL Units 16887-00-6 9.43 9.84 0.348 mg/kg hod: TPH by SW8015 Mod Prep I 06.25.2020 16:48 Prep I 1330037 Date Prep: 06.25.2020 16:48 Prep Seq: 7706231 Prep I CAS Number MQL SDL Units 1320037 Date Prep: 06.25.2020 16:48 Prep I Prep II Prep Seq: 7706231 CAS MQL SDL Units uge Hydrocarbons (GRO) PHC610 <13.8	00500 K Date Collected: 06.24.2020 13:08 Date Received: 06.25.20 hod: Inorganic Anions by EPA 300/300.1 Prep Method: E300P MAB % Moist: Tech: MAB 3130200 Date Prep: 06.26.2020 08:41 Prep Method: E300P MAB % Moist: Tech: MAB 3130200 Date Prep: 06.26.2020 08:41 Prep Method: E300P Momber Result MQL SDL Units Analysis Date I6887-00-6 9.43 9.84 0.348 mg/kg 06.26.2020 14:45 hod: TPH by SW8015 Mod Prep Method: 8015 Tech: CAC GAS Number Prep seq: 7706231 Tech: CAC Mab Number Result MQL SDL Units Analysis Date rege Hydrocarbons (GRO) PHC610 <13.8	Signed R Date Collected: 06.24.2020 13:08 Date Received: 06.25.2020 15: hod: Inorganic Anions by EPA 300/300.1 Prop Method: E300P MAB % Moist: Tech: MAB 3130200 Date Prep: 06.26.2020 08:41 Tech: MAB 3130200 Date Prep: 06.26.2020 08:41 Tech: MAB 16887-00-6 9.43 9.84 0.348 mg/kg 06.26.2020 14:45 J hod: TPH by SW8015 Mod Prep seq: 7706226 Prep Method: 8015 CAC Mod: TPH by SW8015 Mod CAC % Moist: Tech: CAC 3015 CAC % Moist: Tech: CAC 3015 CAC Jaio037 Date Prep: 06.25.2020 16:48 Prep seq: 7706231 Flag nge Hydrocarbons (GRO) PHC610 <13.8 49.9 13.8 mg/kg 06.26.2020 02:04 U ge Hydrocarbons (MRO) PHC610 <13.8 49.9 11.4 mg/kg 06.26.2020 02:04 U ge Hydrocarbons (MRO) PHC610 <13.8 49.9 11.4 mg/kg 06.26.2020 02:04 U



Talon LPE-Artesia, Artesia, NM

•

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

1,4-Difluoro 4-Bromofluo			102 103		70 - 130 70 - 130	% %			
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
Total BTEX			<0.000401		0.000401	mg/kg	VO.20,2020 04.1J	U	
Xylenes, To		1330-20-7	<0.000401		0.000401 0.000401	mg/kg	06.26.2020 04:15 06.26.2020 04:15	U U	
o-Xylene		95-47-6	<0.000401	0.00199	0.000401	mg/kg	06.26.2020 04:15	U	1
m_p-Xylene		179601-23-1	<0.000751	0.00398	0.000751	mg/kg	06.26.2020 04:15	U]
I oluene Ethylbenzen	e	108-88-3	<0.000320	0.00199	0.000320	mg/kg	06.26.2020 04:15	U	1
Benzene Toluene		71-43-2 108-88-3	<0.000484 <0.000526	0.00199 0.00199	0.000484 0.000526	mg/kg mg/kg	06.26.2020 04:15 06.26.2020 04:15	บ บ	1 1
Parameter		CAS Number	Result	MQL	SDL	Units	Anałysis Date	Flag	Dil Facto
			Prep seq: 77	706233					
eq Number:	3130038		Date Prep: 06	5.25.2020 16:	:52				
nalyst:	MAB		% Moist:			Tech:	MAB		
analytical Met	thod: BTEX by EPA 8021					Prep N	Method: 5035A		
1-Chlorooct o-Terpheny			88 92		70 - 135 70 - 135	% %			
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
Total TPH		PHC635	<11.5		11.5	mg/kg	06,26.2020 02:24	U	
	nge Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	06.26.2020 02:24	U	1
	ange Hydrocarbons (GRO) ge Organics (DRO)	PHC610 C10C28DRO	<13.9 <11.5	50.2 50.2	13.9 11.5	mg/kg mg/kg	06.26.2020 02:24	U	1
Parameter		CAS Number	Result	MQL	SDL	Units mg/kg	Analysis Date 06.26.2020 02:24	Flag U	Dil Facto
			Prep seq: 7	/00231					DH E4
Seq Number:	3130037		Date Prep: 0		.40				
Analyst:	CAC			6 25 2020 16	.10	i cen.	CAC		
•	thod: TPH by SW8015 Mod	d	% Moist:			Prep I Tech:	Method: 8015 CAC		
Chloride		16887-00-6	9.52	9.88	0.350	mg/kg	06.26.2020 14:53	J	l
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
			Prep seq: 7	706226					
Seq Number:	3130200		Date Prep: 0	6.26.2020 08	3:41				
Analyst:	MAB		% Moist:			Tech:	MAB		
Analytical Me	thod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Lab Sample Io	d: 665605-007		Date Collect	ed: 06.24.20	20 13:14	Date	Received: 06.25.20	20 15:	45



Talon LPE-Artesia, Artesia, NM

•

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

Arabian 30-19 1H

Sample Id:	S-4 1.5 R		Matrix:	Soil		Samp	le Depth:		
Lab Sample I	d: 665605-008		Date Collect	ed: 06.24.202	20 13:16	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by	EPA 300/300.1				Prepl	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:			Date Prep: 0	6.26.2020 08	:41				
Beq Humber.	5150200		Prep seq: 7						
Paramete	5 r .	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 Me	ethod: TPH by SW8015 Mc	od				Prep 1	Aethod: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
•			Date Prep: 06	5 25 2020 16	:48				
Seq Number:	3130037		-						
Parameter	r	CAS Number	Prep seq: 77	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Caroline P	ange Hydrocarbons (GRO)	PHC610	<13.8	49.8	13,8	mg/kg	06.26,2020 02:45	U	1
	ge Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 02:45	U	1
	ange Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 02:45	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 02:45	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	•	Flag
1-Chloreoc	tane		91		70 - 135	%			
o-Terpheny			98		70 - 135	%			
o-Terpheny			98		70 - 135	%			
			98		70 - 135		Aethod: 5035A		
	yl		98 % Moist:		70 - 135		Aethod: 5035A MAB		
Analytical Met	yl sthod: BTEX by EPA 8021			5.25.2020 16:		Prep N			
Analytical Me Analyst:	yl sthod: BTEX by EPA 8021 MAB		% Moist:			Prep N			
Analytical Me Analyst:	yl ethod: BTEX by EPA 8021 MAB 3130038	CAS Number	% Moist: Date Prep: 06			Prep N		Flag	Dil Factor
Analytical Met Analyst: Seq Number:	yl ethod: BTEX by EPA 8021 MAB 3130038		% Moist: Date Prep: 06 Prep seq: 77	206233 MQL 0.00201	52 SDL 0.000488	Prep M Tech: Units mg/kg	MAB Analysis Date 06.26.2020 04:36	υ	
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene	yl ethod: BTEX by EPA 8021 MAB 3130038 r	Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531	706233 MQL 0.00201 0.00201	52 SDL 0.000488 0.000531	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36	บ บ	
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer	vi vihod: BTEX by EPA 8021 MAB 3130038 r	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409	206233 MQL 0.00201 0.00201 0.00201 0.00201	52 SDL 0.000488 0.000531 0.000409	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	บ บ บ	1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene	vi vihod: BTEX by EPA 8021 MAB 3130038 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758	706233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	52 SDL 0.000488 0.000531 0.000409 0.000758	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	บ บ บ บ	1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene	vi vithod: BTEX by EPA 8021 MAB 3130038 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406	206233 MQL 0.00201 0.00201 0.00201 0.00201	52 SDL 0.000488 0.000531 0.000409 0.000758 0.000406	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	บ บ บ	1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene	vi vithod: BTEX by EPA 8021 MAB 3130038 r r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758	V06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	52 SDL 0.000488 0.000531 0.000409 0.000758	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36 06.26.2020 04:36	บ บ บ บ บ	1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene Xylones, To	vi vithod: BTEX by EPA 8021 MAB 3130038 r r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406 <0.000406	V06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	52 SDL 0.000488 0.000531 0.000409 0.000758 0.000406 0.000406	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1
Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene Xylenes, To Total BTEX	vl thod: BTEX by EPA 8021 MAB 3130038 r nc cs otal X	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000488 <0.000531 <0.000409 <0.000758 <0.000406 <0.000406 <0.000406	V06233 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	52 SDL 0.000488 0.000531 0.000409 0.000758 0.000406 0.000406 0.000406	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1



665605

•

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

Talon LPE-Artesia, Artesia, NM

	Matrix:	Soil		Samp	le Depth:		
	Date Collect	ed: 06.24.202	20 13:20	Date	Received: 06.25.20	20 15:	45
v EPA 300/300.1				Prep	Method: E300P		
,	% Moist:			-			
	Data Pren: A	6 26 2020 08	·41				
	-						
CAS			CDI	TL-!4-	Analysis	Flog	Dil Factor
Number	Result	MQL	SDL	Units	Date	гад	
16887-00-6	10.1	9,98	0.353	mg/kg	06.26.2020 15:21		1
od				Prep I	Method: 8015		
	% Moist:			Tech:	CAC		
	Date Prep: 00	5.25.2020 16:	:48				
	-						
CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 03:05	U	1
C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 03:05	U	1
PHCG2835	<11.4	49.9	11,4	mg/kg	06,26.2020 03:05	U	1
РНС635	<11.4		11.4	mg/kg	06,26,2020 03:05	U	
	% Recovery		Limits	Units	Analysis Date	e	Flag
	90		70 - 135	%			
	93		70 - 135	%			
				Prep N	fethod: 5035A		
	% Moist:			Prep N Tech:	/lethod: 5035A MAB		
		5,25,2020 16:	52	-			
	Date Prep: 06		52	-			
CAS Number			52 SDL	-		Flag	Dil Factor
CAS	Date Prep: 06 Prep seq: 77	06233	SDL 0.000483	Tech: Units mg/kg	MAB Analysis Date 06.26.2020 04:57	U	Dil Factor
CAS Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	06233 MQL 0.00199 0.00199	SDL 0.000483 0.000525	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57	U U	Dil Factor 1 1
CAS Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	06233 MQL 0.00199 0.00199 0.00199	SDL 0.000483 0.000525 0.000404	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	บ บ บ	1 1 1
CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	706233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	U U U U	1 1 1 1
CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	06233 MQL 0.00199 0.00199 0.00199	SDL 0.000483 0.000525 0.000404 0.000749 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg	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	U U U U U	1 1 1
CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	706233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57 06.26.2020 04:57	U U U U	1 1 1 1
CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U	1 1 1 1
CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U	1 1 1 1
	Number 16887-00-6 od CAS Number PHC610 C10C28DRO PHCG2835	y EPA 300/300.1 % Moist: Date Prep: 0 Prep seq: 7 CAS Result 16887-00-6 10.1 iod % Moist: Date Prep: 0 Prep seq: 77 CAS Result PHC610 <13.8 C10C28DRO <11.4 PHC635 <11.4 PHC635 <11.4	y EPA 300/300.1 % Moist: Date Prep: 06.26.2020 08 Prep seq: 7706226 CAS Number Result MQL 16887-00-6 10.1 9.98 od % Moist: Date Prep: 06.25.2020 16: Prep seq: 7706231 CAS Number Result MQL PHC610 <13.8 49.9 C10C28DRO <11.4 49.9 PHC635 <11.4 % Recovery 90	% Moist: Date Prep: 06.26.2020 08:41 Prep seq: 7706226 CAS Number Result MQL SDL 16887-00-6 10.1 9.98 0.353 od % Moist: Date Prep: 06.25.2020 16:48 Prep seq: 7706231 CAS Number Result MQL SDL PHC610 <13.8	y EPA 300/300.1 Prep J % Moist: Tech: Date Prep: 06.26.2020 08:41 Prep seq: 7706226 CAS Number Result MQL SDL Units 16887-00-6 10.1 9.98 0.353 mg/kg od Prep N % Moist: Tech: Date Prep: 06.25.2020 16:48 Prep N % Moist: Tech: Date Prep: 06.25.2020 16:48 Prep seq: 7706231 Tech: Date Prep: 06.25.2020 16:48 PHC610 <13.8	Y EPA 300/300.1 Prep Nethod: E300P % Moist: Tech: MAB Date Prep: 06.26.2020 08:41 Prep seq: 7706226 Tech: MAB CAS Result MQL SDL Units Analysis Date 16887-00-6 10.1 9.98 0.353 mg/kg 06.26.2020 15:21 od Prep Method: 8015 Sold Tech: CAC od Prep seq: 7706231 Tech: CAC Snumber Result MQL SDL Units Analysis Date PHC610 <13.8	y EPA 300/300.1 Prep Method: E300P % Moist: Tech: MAB Date Prep: 06.26.2020 08:41 Prep seq: 7706226 CAS Number Result MQL SDL Units Analysis Date Flag 16887-00-6 10.1 9.98 0.353 mg/kg 06.26.2020 15:21 od Prep Method: 8015 Sold Sold



Talon LPE-Artesia, Artesia, NM

•

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

Sample Id:	S-5 2'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id	d: 665605-010		Date Collecte	ed: 06.24.202	20 13:23	Date 1	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by E	PA 300/300.1				Prep I	Method: E300P		
Analyst:	МАВ		% Moist:			Tech:	MAB		
Seq Number:	3130200		Date Prep: 00	5.26.2020 08	:41				
boq rumber.	5150200		Prep seq: 7						
Paramete	r	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 Me	thod: TPH by SW8015 Mod					Prep N	Aethod: 8015		
Analyst:	CAC		% Moist:			Tech:	CAC		
-			Date Prep: 06	25 2020 16	48	10011	Circ		
Seq Number:	3130037		-						
			Prep seq: 77	06231					
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Ra	ange Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 03:26	U	I
	ge Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 03:26	U	1
	nge Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 03:26	U U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 03:26	0	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
8			70 Recovery		LAMIANS	01110			-
l-Chlorooc o-Terpheny			84 88		70 - 135 70 - 135	% %			-
l-Chlorooc o-Terpheny	1		84		70 - 135	% %	·		-
l-Chlorooc o-Terpheny Analytical Met	1 thod: BTEX by EPA 8021		84 88		70 - 135	% % Prep N	Aethod: 5035A		-
1-Chlorooc o-Terpheny Analytical Met Analyst:	1 thod: BTEX by EPA 8021 MAB		84 88 % Moist:	25 2020 16.	70 - 135 70 - 135	% %	·		-
1-Chlorooc o-Terpheny Analytical Met Analyst:	1 thod: BTEX by EPA 8021		84 88 % Moist: Date Prep: 06		70 - 135 70 - 135	% % Prep N	Aethod: 5035A		-
1-Chlorooc o-Terpheny Analytical Met Analyst:	1 thod: BTEX by EPA 8021 MAB 3130038	CAS Number	84 88 % Moist:		70 - 135 70 - 135	% % Prep N	Aethod: 5035A	Flag	Dil Factor
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number:	1 thod: BTEX by EPA 8021 MAB 3130038		84 88 % Moist: Date Prep: 06 Prep seq: 77	06233	70 - 135 70 - 135 52	% % Prep M Tech:	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19	Flag	Dil Factor
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter	1 thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527	06233 MQL 0.00200 0.00200	70 - 135 70 - 135 52 52 52 0.000485 0.000527	% % Prep N Tech: Units mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19	Flag U U	1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer	1 thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527 <0.000405	06233 MQL 0.00200 0.00200 0.00200	70 - 135 70 - 135 52 52 52 0.000485 0.000527 0.000405	% % Prep N Tech: Units mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U	1] 1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene	1 thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527 <0.000405 <0.000752	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	70 - 135 70 - 135 52 52 52 52 0.000485 0.000527 0.000405 0.000752	% % Prep N Tech: Units mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U U	1 1 1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene	1 thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000485 <0.000405 <0.000752 <0.000402	06233 MQL 0.00200 0.00200 0.00200	70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	% % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U	1] 1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527 <0.000405 <0.000752	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	70 - 135 70 - 135 52 52 52 52 0.000485 0.000527 0.000405 0.000752	% % Prep N Tech: Units mg/kg mg/kg mg/kg	Aethod: 5035A MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U U U U	1 1 1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene Xylenes, To	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527 <0.000405 <0.000405 <0.000402 <0.000402	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	70 - 135 70 - 135 52 52 52 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	% % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U U U U U U U U	1 1 1
1-Chlorooc o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m_p-Xylene o-Xylene Xylenes, To Total BTEX	thod: BTEX by EPA 8021 MAB 3130038	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	84 88 % Moist: Date Prep: 06 Prep seq: 77 Rcsult <0.000485 <0.000527 <0.000405 <0.000402 <0.000402 <0.000402 <0.000402	06233 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	% % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis MAB Analysis Date 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19 06.26.2020 05:19	Flag U U U U U U U U U U	1 1 1



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 I	d: 665605-011		Date Collect	ed: 06.24.20	20 13:25	Date	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by I	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:			
Seq Number:			Date Prep: 0	6.26.2020.08	:45				
seq number.	5150201		^	706227					
Paramete	er.	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
						Duan	víethod: 8015		
•	ethod: TPH by SW8015 Mod		01 34 14			•			
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130203		Date Prep: 06		:05				
			Prep seq: 7	706261					
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Fiag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	50.2	13.9	mg/kg	06.26.2020 12:24	U	1
	ge Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	06.26.2020 12:24	U	1
	ange Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	06.26.2020 12:24	บ บ	1
Total TPH		РНС635	<11.5		11.5	mg/kg	06.26.2020 12:24	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	9	Flag
1-Chlorooc	tane		93		70 - 135	%			
o-Terpheny	/l		96		70 - 135	%			
	a		96		70 - 135	%			
o-Terpheny	rl thod: BTEX by EPA 8021				70 - 135	Prep N	1ethod: 5035A		
o-Terpheny			96 % Moist:		70 - 135		Aethod: 5035A MAB		
o-Terpheny Analytical Me	thod: BTEX by EPA 8021			5.26.2020 09:		Prep N			
o-Terpheny Analytical Me Analyst:	thod: BTEX by EPA 8021 MAB		% Moist:			Prep N			
o-Terpheny Analytical Me Analyst:	thod: BTEX by EPA 8021 MAB 3130199	CAS Number	% Moist: Date Prep: 06			Prep N		Flag	Dil Factor
o-Terpheny Analytical Me Analyst: Seq Number:	thod: BTEX by EPA 8021 MAB 3130199		% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483	06236 MQL 0.00199	55 SDL 0.000483	Prep M Tech: Units mg/kg	MAB Analysis Date 06.26.2020 15:46	U	1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Toluene	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	06236 MQL 0.00199 0.00199	55 SDL 0.000483 0.000525	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 15:46 06.26.2020 15:46	บ บ	1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Tołuene Ethylbenzer	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	06236 MQL 0.00199 0.00199 0.00199	55 SDL 0.000483 0.000525 0.000404	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46	บ บ บ	1 1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Tołuene Ethylbenzer m,p-Xylene	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46 06.26.2020 15:46	บ บ บ บ	1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Tołuene Ethylbenzer m,p-Xylene o-Xylene	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	06236 MQL 0.00199 0.00199 0.00199	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ	1 1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Tołuene Ethylbenzer m,p-Xylene	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Tołuene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	thod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	1 1 1



Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id: S-5 3.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-012		Date Collect	ed: 06.24.202	20 13:28	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		
Seq Number: 3130201		Date Prep: 0	5.26.2020 08	45				
, , , , , , , , , , , , , , , , , , ,		-	706227					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride	16887-00-6	11.8	10.1	0.357	mg/kg	06.26.2020 16:21		1
Analytical Method: TPH by SW8015 Mo	od				Prep 1	Acthod: 8015		
•		% Moist:			Tech:	MAB		
Ş		Date Prep: 06	526202010	05				
Seq Number: 3130203		-		05				
		Prep seq: 77	/06261					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 13:25	U	1
Motor Oil Range 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	ż	Flag
l-Chlorooctane o-Terphenyl		90 94		70 - 135 70 - 135	% %			
Analytical Method: BTFX by FPA 8021					Prep N	1ethod: 5035A		
ţ.		% Moist:						
Analyst: MAB		% Moist:	5 26 2020 0 9-	55	Prep M Tech:	fethod: 5035A MAB		
Analyst: MAB		Date Prep: 06		55				
Analyst: MAB	CAS Number	,		55 SDL			Flag	Dil Facto
Analyst: MAB leq Number: 3130199		Date Prep: 06 Prep seq: 77	06236		Tech:	MAB Analysis Date 06.26.2020 16:07	U	1
Analyst: MAB leq Number: 3130199 Parameter	Number	Date Prep: 06 Prep seq: 77 Result	06236 MQL 0.00200 0.00200	SDL 0.000486 0.000529	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07	U U	1
Analyst: MAB leq Number: 3130199 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000486 0.000529 0.000407	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	บ บ บ	1 1 1
Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	บ บ บ บ	1 1 1 1
Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000486 0.000529 0.000407 0.000755 0.000404	Tech: Units mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07 06.26.2020 16:07	บ บ บ บ	1 1 1 1
Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1 1
Analyst: MAB Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404 0.000404	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	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: 06.24.202	20 13:32	Date	Received: 06.25.20	20 15:	45
Analytical Met	thod: Inorganic Anions by E	PA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130201		Date Prep: 0	6.26.2020 08	:45				
acq manuel.	5150201		-	706227					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride		16887-00-6	11.0	10.1	0.357	mg/kg	06.26,2020 16:27		1
Analytical Met	hod: TPH by SW8015 Mod					Prep N	Method: 8015		
•	МАВ		% Moist:			Tech:	MAB		
				: <u>16 2010 10</u>	.05	10011			
Seq Number:	3130203		Date Prep: 06		.0.5				
			Prep seq: 77	/06261					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Rai	nge Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 13:46	U	1
Diesel Range	e Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 13:46	U	1
	nge 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 Date	;	Flag
1-Chloroocta o-Terphenyl			94 95		70 - 135 70 - 135	% %			
						70			
Analytical Math					,,		Aethod: 5035A		
•	hod: BTEX by EPA 8021					Prep N	Aethod: 5035A		
Analyst:	hod: BTEX by EPA 8021 MAB		% Moist:	. 26 2020 00.			fethod: 5035A MAB		
Analyst:	hod: BTEX by EPA 8021		% Moist: Date Prep: 06			Prep N			
Analyst:	hod: BTEX by EPA 8021 MAB		% Moist:			Prep N			
Analyst:	hod: BTEX by EPA 8021 MAB	CAS Number	% Moist: Date Prep: 06			Prep N		Flag	Dil Factor
Analyst: Seq Number:	hod: BTEX by EPA 8021 MAB		% Moist: Date Prep: 06 Prep seq: 77	06236 MQL 0.00199	55 SDL 0.000483	Prep N Tech: Units mg/kg	MAB Analysis Date 06.26.2020 16:27	U	1
Analyst: Seq Number: Parameter Benzene Toluene	hod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525	06236 MQL 0.00199 0.00199	55 SDL 0.000483 0.000525	Prep N Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27	ບ ບ	1
Analyst: Eeq Number: Parameter Benzene Toluene Ethylbenzene	hod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404	06236 MQL 0.00199 0.00199 0.00199	55 SDL 0.000483 0.000525 0.000404	Prep N Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	ບ ບ ບ] 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	hod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	ບ ບ ບ ບ	1 1 1 1
Analyst: Seq Number: Parameter Benzenc Toluenc Ethylbenzene m,p-Xylenes o-Xylene	hod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401	06236 MQL 0.00199 0.00199 0.00199	55 SDL 0.000483 0.000525 0.000404	Prep N Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:27 06.26.2020 16:27 06.26.2020 16:27	ບ ບ ບ] 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	hod: BTEX by EPA 8021 MAB 3130199 e	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	ບ ບ ບ ບ ບ	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	hod: BTEX by EPA 8021 MAB 3130199 e	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U U	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	hod: BTEX by EPA 8021 MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000483 <0.000525 <0.000404 <0.000749 <0.000401 <0.000401 <0.000401	06236 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	55 SDL 0.000483 0.000525 0.000404 0.000749 0.000401 0.000401 0.000401	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U U	1 1 1



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 Io	d: 665605-014		Date Collecte	ed: 06.24.202	20 13:36	Date	Received: 06.25.202	20 15:	45
Analytical Me	ethod: Inorganic Anions by H	EPA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130201		Date Prep: 00	5.26.2020 08	:45				
~ • • •			Prep seq: 7						
Parameter	r	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 Me	thod: TPH by SW8015 Mod					Prep 1	Method: 8015		
Analyst:	МАВ		% Moist:			Tech:	MAB		
-	3130203		Date Prep: 06	5.26.2020 10:	05				
Seq Number:	3130205		Prep seq: 77						
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facter
Casalina D.	ange Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.26.2020 14:17	U	1
	ge Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 14:17	Ū	1
	inge Hydrocarbons (MRO)	PHCG2835	<11,4	49.9	11.4	mg/kg	06.26.2020 14:17	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 14:17	U	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
l-Chlorooc o-Terpheny			89 92		70 - 135 70 - 135	% %			
Applution Mot	thad BTEY by FDA 2021					Pren N	Aethod: 5035A		
-	thod: BTEX by EPA 8021		% Maist			-	fethod: 5035A MAB		
Analyst:	MAB		% Moist:	26 2020 09-	55	Prep M Tech:	fethod: 5035A MAB		
-			Date Prep: 06		55	-			
Analyst:	MAB 3130199	CAS Number			55 SDL	-		Flag	Dil Factor
Analyst: Seq Number:	MAB 3130199		Date Prep: 06 Prep seq: 77	06236		Tech:	MAB Analysis	Flag	Dil Factor
Analyst: Seq Number: Parameter	MAB 3130199	Number	Date Prep: 06 Prep seq: 77 Result	06236 MQL 0.00200 0.00200	SDL	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47	U U	
Analyst: Seq Number: Parameter Benzene	MAB 3130199	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	U U U	1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	U U U U U	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U	1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene:	MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47 06.26.2020 16:47	U U U U U	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000402 <0.000402 <0.000402 <0.000402	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	MAB 3130199	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ	1 1 1



•

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

Talon LPE-Artesia, Artesia, NM

Sample Id: S-7 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-015		Date Collecte	ed: 06.24.202	20 13:40	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep l	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130201		Date Prep: 06	5.26.2020 08:	:45				
5001100000		Prep seq: 7						
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 SW8015 Mo	d				Prep N	fethod: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
2		Date Prep: 06	5 26 2020 10·	·05	100			
Seq Number: 3130203		-		.05				
		Prep seq: 77	00201					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.2	13.9	mg/kg	06.26.2020 14:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	06.26.2020 14:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5 11.5	mg/kg	06.26.2020 14:38 06.26.2020 14:38	บ บ	1
Total TPH	PHC635	<11.5		11.5	mg/kg	00.20.2020 14.30	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
l-Chlorooctane o-Terphenyl		90 93		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Prep N	fethod: 5035A		
marylical Method. DIDA by LITT 0021								
Analysti MAR		% Moist:			Tech:	MAB		
		% Moist:	26 2020 09.	55	Tech:	MAB		
		Date Prep: 06		55	Tech:	MAB		
				55	Tech:			
	CAS Number	Date Prep: 06		55 SDL	Tech: Units	MAB Analysis Date	Flag	Dil Factor
Seq Number: 3130199 Parameter Benzene	Number 71-43-2	Date Prep: 06 Prep seq: 77 Result <0.000485	06236 MQL 0.00200	SDL 0.000485	Units mg/kg	Analysis Date 06.26.2020 17:08	U	Dil Factor
Seq Number: 3130199 Parameter Benzene Toluene	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527	06236 MQL 0.00200 0.00200	SDL 0.000485 0.000527	Units mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08	U U U	1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Units mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzenc m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U U	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzenc m,p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000405 <0.000405 <0.000752 <0.000402	06236 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzenc m,p-Xylencs	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U U U	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzenc m,p-Xylenes o-Xylene Total Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U U U U U	1 1 1
Seq Number: 3130199 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402 <0.000402	06236 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402 0.000402	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08 06.26.2020 17:08	U U U U U U U U	1 1 1 1



665605

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id:	S-7 1.5' R		Matrix:	Soil		-	le Depth:		
Lab Sample I	ld: 665605-016		Date Collect	ed: 06.24.20	20 13:44	Date	Received: 06.25.20	20 15:	45
Analytical M	ethod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech	MAB		
Seq Number:	3130201		Date Prep: 0	6,26,2020 08	:45				
			Prep seq: 7	706227					
Paramete	er.	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride		16887-00-6	9.73	9,96	0.353	mg/kg	06.26.2020 16:57	1	1
Analytical Me	ethod: TPH by SW8015 Mo	d				Prep I	vfethod: 8015		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:			Date Prep: 06	5.26.2020 10	:05				
Seq Municer.	5150205		Prep seq: 77						
Paramete	:r'	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline P	ange Hydrocarbons (GRO)	PHC610	<13.8	49.9	13.8	mg/kg	06.26.2020 14:58	U	1
	ge Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 14:58	Ŭ	i
	ange Hydrocarbons (MRO)	PHCG2835	<11,4	49.9	11.4	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	\$	Flag
l-Chlorooc o-Terpheny			86 89		70 - 135 70 - 135	% %			
Analytical Me	thod: BTEX by EPA 8021					Pren M	fethod: 5035A		
-	thod: BTEX by EPA 8021		% Moist:			-	Aethod: 5035A MAB		
Analyst:	MAB		% Moist: Date Pren: 06	26 2020 09:	55	Prep N Tech:	Aethod: 5035A MAB		
-	-		Date Prep: 06		55	-			
Analyst:	MAB 3130199	CAS Number			55 SDL	-		Flag	Dil Factor
Analyst: Seq Number:	MAB 3130199		Date Prep: 06 Prep seq: 77	06236		Tech:	MAB Analysis	Flag U	Dil Factor
Analyst: Seq Number: Parameter Benzene Toluene	MAB 3130199	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522	06236 MQL 0.00198 0.00198	SDL 0.000481 0.000522	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28	U U	1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen	MAB 3130199 r	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402	06236 MQL 0.00198 0.00198 0.00198	SDL 0.000481 0.000522 0.000402	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	MAB 3130199 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746	06236 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	SDL 0.000481 0.000522 0.000402 0.000746	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	U U U U U	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene	MAB 3130199 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399	06236 MQL 0.00198 0.00198 0.00198	SDL 0.000481 0.000522 0.000402 0.000746 0.000399	Tech: Units mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	MAB 3130199 r nc es	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746	06236 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	SDL 0.000481 0.000522 0.000402 0.000746	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28 06.26.2020 17:28	U U U U U	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xyler	MAB 3130199 r nc es	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000402 <0.000402 <0.000746 <0.000399 <0.000399	06236 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	SDL 0.000481 0.000522 0.000402 0.000746 0.000399 0.000399	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xyler Total BTEX	MAB 3130199 r nc es x	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000402 <0.000402 <0.000746 <0.000399 <0.000399 <0.000399	06236 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	SDL 0.000481 0.000522 0.000402 0.000746 0.000399 0.000399 0.000399	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	l 1 1 1

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: 6	65605-017		Date Collect	ed: 06.24.202	20 13:30	Date	Received: 06.25.202	20 15:	45
Analytical Metho	od: Inorganic Anions by E	PA 300/300.1				Prep 1	Method: E300P		
Analyst: M	ÍAB		% Moist:			Tech:	MAB		
	130201		Date Prep: 0	5.26.2020 08	:45				
boq manbon - 5	130201		Prep seq: 7						
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride		16887-00-6	10.6	9.98	0.353	mg/kg	06.26.2020 17:03		1
Analytical Metho	d: TPH by SW8015 Mod					Prep N	Aethod: 8015		
-	IAB		% Moist:			Tech:	MAB		
5				(14) 100 10.	.05	10011.	1117 112		
Seq Number: 31	130203		Date Prep: 06		.05				
			Prep seq: 77	/06261					
Parameter		CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Gasoline Range	e Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.26.2020 15:19	U	1
Diesel Range O	• • •	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 15:19	U	1
-	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 Date		Flag
1-Chlorooctane o-Terphenyl	:		88 91		70 - 135 70 - 135	% %			
Analytical Method	• BTEX by EPA 8021					Pren M	fethod: 5035A		
-	1: BTEX by EPA 8021		% Moist			•	fethod: 5035A MAB		
Analyst: M.	AB		% Moist:	20 2020 00.	77	Prep N Tech:	fethod: 5035A MAB		
Analyst: M.	-		Date Prep: 06		27	•			
Analyst: M.	AB				27	•	MAB		
Analyst: M.	AB	CAS Number	Date Prep: 06		27 SDL	•	MAB Analysis	Flag	Dil Factor
Analyst: M. Seq Number: 31 Parameter Benzene	AB	Number 71-43-2	Date Prep: 06 Prep seq: 77 Result <0.000485	06338 MQL 0.00200	SDL 0.000485	Tech: Units mg/kg	MAB Analysis Date 06.29.2020 14:46	U	***
Analyst: M. Geq Number: 31 Parameter Benzene Toluene	AB	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527	06338 MQL 0.00200 0.00200	SDL 0.000485 0.000527	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46	U U	<u>1</u>
Analyst: M. Geq Number: 31 Parameter Benzene Toluene Ethylbenzene	AB	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	U U U	1 1
Analyst: M. Geq Number: 31 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	AB	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	U U U U	1 1 1 1
Analyst: M. Geq Number: 31 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	AB	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	U U U	1 1
Analyst: M. Seq Number: 31 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	AB	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	U U U U U	¥ 1 1
Analyst: M. Seq Number: 31 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	AB	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	บ บ บ บ บ บ บ	1 1 1
Analyst: M. Seq Number: 31 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	AB 30305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402 <0.000402	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46 06.29.2020 14:46	บ บ บ บ บ บ บ	1 1 1



Page 95 of 124

Certificate of Analytical Results 665605

Talon LPE-Artesia, Artesia, NM

Arabian 30-19 1H

Sample Id: S-8 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665605-018		Date Collecte	ed: 06.24.20	20 13:33	Date	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:			
Seq Number: 3130201		Date Prep: 00	5.26.2020-08	:45				
Seq (400061, 5150201		Prep seq: 7						
	CAS					Analysis		Dil Factor
Parameter	Number	Result	MQL	SDL	Units	Date	Flag	
Chloride	16887-00-6	9,98	9.96	0.353	mg/kg	06.26.2020 17:08		1
Analytical Method: TPH by SW8015 Mo	d				Prep l	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130203		Date Prep: 06	5.26.2020 10:	:05				
		Prep seq: 77						
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 15:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 15:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 15:40	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.26.2020 15:40	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	:	Flag
l-Chlorooctane o-Terphenyl		87 91		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Pren M	Aethod: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130305		Date Prep: 06	29 2020 09-	27				
acq Aumori, 3130303		Prep seq: 77						
		* -						Dil Factor
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	
Parameter Benzene		Result	MQL 0.00202	SDL 0.000489	Units mg/kg		U	1
Benzene Toluene	Number 71-43-2 108-88-3	<0.000489 <0.000532	0.00202 0.00202	0.000489 0.000532	mg/kg mg/kg	Date 06.29.2020 15:06 06.29.2020 15:06	U U U	1
Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	<0.000489 <0.000532 <0.000409	0.00202 0.00202 0.00202	0.000489 0.000532 0.000409	mg/kg mg/kg mg/kg	Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	บ บ บ	1
Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	<0.000489 <0.000532 <0.000409 <0.000760	0.00202 0.00202 0.00202 0.00403	0.000489 0.000532 0.000409 0.000760	mg/kg mg/kg mg/kg mg/kg	Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	U U U U U	1 1 1
Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4	<0.000489 <0.000532 <0.000409 <0.000760 <0.000406	0.00202 0.00202 0.00202	0.000489 0.000532 0.000409	mg/kg mg/kg mg/kg mg/kg mg/kg	Date 06.29.2020 15:06 06.29.2020 15:06 06.29.2020 15:06	บ บ บ	1
Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.000489 <0.000532 <0.000409 <0.000760	0.00202 0.00202 0.00202 0.00403	0.000489 0.000532 0.000409 0.000760 0.000406	mg/kg mg/kg mg/kg mg/kg	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	U U U U U U	1 1 1
Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	0.00202 0.00202 0.00202 0.00403	0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U	1 1 1
Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	<0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406	0.00202 0.00202 0.00202 0.00403	0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U	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

Sample Id:	S-9 0-1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample I	ld: 665605-019		Date Collect	ed: 06.24.20	20 13:24	Date	Received: 06.25.20)20 15:	:45
Analytical M	ethod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech	MAB		
Seq Number:	3130201		Date Prep: 0	6.26.2020 08	:45				
soq rumoon	5150201		Prep seq: 7						
Paramete	er	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 Me	ethod: TPH by SW8015 Mo	od				Prep I	Method: 8015		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130203		Date Prep: 0	5 26 2020 10	·05				
Seq Number.	5150203		Prep seq: 7						
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.26,2020 16:00	U	1
	ge Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 16:00	υ	1
	ange 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	е	Flag
1-Chlorooc o-Terpheny			92 97		70 - 135 70 - 135	% %			
Analytical Me	thod: BTEX by EPA 8021					Prep M	fethod: 5035A		
•	thod: BTEX by EPA 8021		% Moist			-	fethod: 5035A MAB		
Analyst:	MAB		% Moist:	5 20 2020 <u>0</u> 0-	07	Prep M Tech:	fethod: 5035A MAB		
•	•		Date Prep: 06		27	-			
Analyst:	MAB 3130305	CAS Number			27 SDL	-		Flag	Dil Factor
Analyst: Seq Number:	MAB 3130305	Number	Date Prep: 06 Prep seq: 77	06338		Tech:	MAB Analysis	Flag	Dil Factor 1
Analyst: Seq Number: Parameter	MAB 3130305		Date Prep: 06 Prep seq: 77 Result	06338 MQL	SDL	Tech: Units	MAB Analysis Date		
Analyst: Seq Number: Parameter Benzene	MAB 3130305	Number 71-43-2	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405	06338 MQL 0.00199 0.00199 0.00199	SDL 0.000484 0.000526 0.000405	Tech: Units mg/kg	MAB Analysis Date 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	U U U U	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene:	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751	06338 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000484 0.000526 0.000405 0.000751	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	U U U U U	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751 <0.000401	06338 MQL 0.00199 0.00199 0.00199	SDL 0.000484 0.000526 0.000405 0.000751 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	U U U U U U	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene:	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751	06338 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000484 0.000526 0.000405 0.000751	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27 06.29.2020 15:27	U U U U U	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xylen	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751 <0.000401 <0.000401	06338 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000484 0.000526 0.000405 0.000751 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	1 1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xylen Total BTEX	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000484 <0.000526 <0.000405 <0.000751 <0.000401 <0.000401 <0.000401	06338 MQL 0.00199 0.00199 0.00199 0.00199 0.00398	SDL 0.000484 0.000526 0.000405 0.000751 0.000401 0.000401 0.000401	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 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	บ บ บ บ บ บ	I I I I



665605

•

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

Talon LPE-Artesia, Artesia, NM

Sample Id:	S-9 1.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample I	d: 665605-020		Date Collect	ed: 06.24.20	20 13:27	Date	Received: 06.25.20	20 15:	45
Analytical Mo	ethod: Inorganic Anions by	EPA 300/300.1				Prep	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130201		Date Prep: 0	6,26,2020 08	:45				
beq ramoer.	5150201		Prep seq: 7						
Paramete	er.	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride		16887-00-6	10.9	9.94	0.352	mg/kg	06.26.2020 17:20		1
Analytical Me	ethod: TPH by SW8015 Mo	d				Prep I	vlethod: 8015		
Analyst:	MAB		% Moist:			Tech:	MAB		
-			Date Prep: 0	5 26 2020 10	.05				
Seq Number:	3130203		-		.05				
			Prep seq: 7	/00201					
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 16:21	U	1
	ge Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 16:21	U	I
	ange Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 16:21	U U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 16:21	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	;	Flag
1-Chlorooc	itana		94		70 - 135	%			
			99		70 - 135	%			
o-Terpheny			99		70 - 135	%			
o-Terpheny					70 - 135		Tethod: 5035A		
o-Terpheny	/1		99 % Moist:		70 - 135		Aethod: 5035A MAB		
o-Terpheny Analytical Me	rl thod: BTEX by EPA 8021			.29.2020 09:		Prep N			
o-Terpheny Analytical Me Analyst:	rl thod: BTEX by EPA 8021 MAB		% Moist:			Prep N			
o-Terpheny Analytical Me Analyst:	/l thod: BTEX by EPA 8021 MAB 3130305	CAS Number	% Moist: Date Prep: 06			Prep N		Flag	Dil Factor
o-Terpheny Analytical Me Analyst: Seq Number:	/l thod: BTEX by EPA 8021 MAB 3130305		% Moist: Date Prep: 06 Prep seq: 77	06338	27	Prep M Tech:	MAB Analysis	U	Dil Factor
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Toluene	/l thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522	06338 MQL 0.00198 0.00198	27 SDL 0.000481 0.000522	Prep N Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47	U U	1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402	06338 MQL 0.00198 0.00198 0.00198	27 SDL 0.000481 0.000522 0.000402	Prep N Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	U U U U	1 1 1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746	06338 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	27 SDL 0.000481 0.000522 0.000402 0.000746	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	U U U U U	1 1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399	06338 MQL 0.00198 0.00198 0.00198	27 SDL 0.000481 0.000522 0.000402 0.000746 0.000399	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	U U U U	1 1 1
o-Terpheny Analytical Mer Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746	06338 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	27 SDL 0.000481 0.000522 0.000402 0.000746	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	บ บ บ บ บ	1 1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399 <0.000399	06338 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	27 SDL 0.000481 0.000522 0.000402 0.000746 0.000399 0.000399	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	U U U U U U U U	1 1 1 1
o-Terpheny Analytical Met Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	Athod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000481 <0.000522 <0.000402 <0.000746 <0.000399 <0.000399 <0.000399	06338 MQL 0.00198 0.00198 0.00198 0.00198 0.00396	27 SDL 0.000481 0.000522 0.000402 0.000746 0.000399 0.000399 0.000399	Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47 06.29.2020 15:47	U U U U U U U U	1 1 1 1



•

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 Method: Inorganic Anions by]	EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130201		Date Prep: 0	6,26.2020 08	:45				
boq number. 5150201		Prep seq: 7						
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 Method: TPH by SW8015 Mod	1				Prep 1	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130203		Date Prep: 06	5.26.2020 10	:05				
3cq Williber. 3130203		Prep seq: 7						
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 17:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.26.2020 17:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.26.2020 17:08	U	1
Total TPH	РНС635	<11.4		11.4	mg/kg	06.26.2020 17:08	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	1	Flag
l-Chlorooctane o-Terphenyl		91 95		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Prep N	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130305		Date Prep: 06	.29.2020 09:	27				
bed Lumon. 2120202		Prep seq: 77						
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 16:08	U	1
Tolucne	108-88-3	<0.000527	0.00200	0.000527	mg/kg	06.29.2020 16:08	U	1
Ethylbenzene	100-41-4 179601-23-1	<0.000405 <0.000752	0.00200 0.00399	0.000405 0.000752	mg/kg mg/kg	06.29.2020 16:08 06.29.2020 16:08	U U	1
m,p-Xylenes o-Xylene	179601-23-1 95-47-6	<0.000732 <0.000402	0.00399	0.000732	mg/kg	06.29.2020 16:08	U	1
Total Xylenes	1330-20-7	< 0.000402		0.000402	mg/kg	06.29.2020 16:08	U	
Total BTEX		<0.000402		0.000402	mg/kg	06.29.2020 16:08	U	
Surrogate		% Recovery		Limits	Units	Analysis Date		Flag
Surrogate 1,4-Difluorobenzene		% Recovery 104		Limits 70 - 130	Units %	Analysis Date		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		
Seg Number:	3130201		Date Prep: 0	6.26.2020 08	:45				
			Prep seq: 7						
Paramete	er	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	ethod: TPH by SW8015 Mc	od				Prep l	Method: 8015		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:			Date Prep: 06	5.26.2020 10	:05				
beg Humber.	5150205		Prep seq: 77						
Parameter	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 17:28	U	1
Diesel Rang	ge Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 17:28	U	1
	ange Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 17:28	U	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 17:28	U	
Surrogate			% Recovery		Limits	Units	Analysis Date	e	Flag
l-Chlorooc o-Terpheny			91 94		70 - 135 70 - 135	% %			
Analytical Me	thod: BTEX by EPA 8021								
-						Prep N	fethod: 5035A		
Analyst:	-		% Moist:			Prep M Tech:	Method: 5035A MAB		
-	МАВ				27	•			
-	-		% Moist: Date Prep: 06 Prep seq: 77		27	•			
-	MAB 3130305	CAS Number	Date Prep: 06		27 SDL	•		Flag	Dil Factor
Seq Number:	MAB 3130305		Date Prep: 06 Prep seq: 77	06338		Tech:	MAB Analysis	Flag U	Dil Factor
Seq Number: Parameter Benzene Toluene	MAB 3130305	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527	06338 MQL 0.00200 0.00200	SDL 0.000485 0.000527	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:28 06.29.2020 16:28	U U U	1
Seq Number: Parameter Benzene Toluene Ethylbenzen	MAB 3130305	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	บ บ บ บ	1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylenc	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	U U U U U	1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	MAB 3130305	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000485 0.000527 0.000405	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:28 06.29.2020 16:28 06.29.2020 16:28	บ บ บ บ	1 1 1
Benzene Toluene Ethylbenzen m,p-Xylenc	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U	1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xylen	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000527 <0.000405 <0.000752 <0.000402 <0.000402	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000752 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000485 <0.000405 <0.000405 <0.000402 <0.000402 <0.000402 <0.000402	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00399	SDL 0.000485 0.000527 0.000405 0.000405 0.000402 0.000402 0.000402	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1 1



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: 06.24.202	20 13:53	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: 3130201		Date Prep: 00	5.26.2020 08	:45				
504 (Million, 515020)		Prep seq: 7						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride	16887-00-6	11.9	10.1	0.356	mg/kg	06.26.2020 17:50]
Analytical Method: TPH by SW8015 Mo	d				Prep I	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
5		Date Prep: 06	5 26 2020 10	05				
Seq Number: 3130203				00				
Parameter	CAS	Prep seq: 77	MQL	SDL	Units	Analysis	Flag	Dil Facto
	Number					Date		
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 17:49	U	1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	C10C28DRO	<11.5	50.0 50.0	11.5 11.5	mg/kg mg/kg	06.26.2020 17:49 06.26.2020 17:49	U U	1
Total TPH	PHCG2835 PHC635	<11.5 <11.5	0.0	11,5	mg/kg	06.26.2020 17:49	U	1
Surrogate		% Recovery		Limits	Units	Analysis Date	:	Flag
1-Chlorooctane o-Terphenyl		100 104		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Dran M	Aethod: 5035A		
5					r tep r			
Analyst: MAB		% Moist:			Tech:	MAB		
			.29.2020 09:	27				
		% Moist: Date Prep: 06 Prep seq: 77		27				
j _ · ·	CAS Number	Date Prep: 06		27 SDL			Flag	Dil Facto
Seq Number: 3130305		Date Prep: 06 Prep seq: 77 Result <0.000486	06338 MQL 0.00200	SDL 0.000486	Tech: Units mg/kg	MAB Analysis Date 06.29.2020 16:48	U	1
Parameter Benzene Toluene	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529	06338 MQL 0.00200 0.00200	SDL 0.000486 0.000529	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48	U U U	1
Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000486 0.000529 0.000407	Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	U U U	1 1 1
Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755	Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	U U U U U	1 1 1 1
Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404	06338 MQL 0.00200 0.00200 0.00200	SDL 0.000486 0.000529 0.000407 0.000755 0.000404	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	U U U	1 1 1
Parameter Benzene Toluene Ethylbenzene m,p-Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755	Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	บ บ บ บ บ	1 1 1 1
Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	U U U U U U U U	1 1 1 1
Seq Number: 3130305 Parameter Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total Xylenes Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404 0.000404	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48 06.29.2020 16:48	U U U U U U U U	1 1 1 1



Talon LPE-Artesia, Artesia, NM

•

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

Lab Sample I	S11 1.5' R		Matrix:	Soil		Samp	le Depth:		
	d: 665605-024		Date Collect	ed: 06.24.202	20 13:57	Date	Received: 06.25.202	20 15:	45
Analytical M	ethod: Inorganic Anions by E	PA 300/300.1				Prep I	Method: E300P		
Analyst:	MAB		% Moist:			Tech:			
-			Date Prep: 0	5.26.2020.08	:45				
Seq Number:	5150201		Prep seq: 7		• • •				
		CLE	riep sey. ,	00227			Analysis		Dil Factor
Paramete	er.	CAS Number	Result	MQL	SDL	Units	Date	Flag	DITTACION
Chloride		16887-00-6	11.5	10.0	0.355	mg/kg	06.26.2020 18:08		I
Analytical Me	ethod: TPH by SW8015 Mod					Prep N	Aethod: 8015		
Analyst:	МАВ		% Moist:			Tech:	MAB		
-			Date Prep: 06	5 26 2020 10:	:05				
Seq Number:	3130203								
			Prep seq: 77	00201					
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.26.2020 18:09	U	1
	ge Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 18:09	U	1
	ange Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.26.2020 18:09	บ บ	1
Total TPH		PHC635	<11.4		11.4	mg/kg	06.26.2020 18:09	U	
Surrogate			% Recovery		Limits	Units	Analysis Date		Flag
1-Chlorooc	stane		97		70 - 135	%			
			101			%			
o-Terpheny	vl		101		70 - 135	/0			
			101		70 - 135		fethod: 5035A		
Analytical Me	thod: BTEX by EPA 8021		% Moist:		70 - 135		fethod: 5035A MAB		
Analytical Me Analyst:	thod: BTEX by EPA 8021 MAB		% Moist:	.29.2020 09:		Prep N			
Analytical Me	thod: BTEX by EPA 8021		% Moist: Date Prep: 06			Prep N			
Analytical Me Analyst:	thod: BTEX by EPA 8021 MAB 3130305	CAS Number	% Moist:			Prep N		Flag	Dil Factor
Analytical Me Analyst: Seq Number:	thod: BTEX by EPA 8021 MAB 3130305		% Moist: Date Prep: 06 Prep seq: 77	06338	27	Prep M Tech:	MAB Analysis	U	Dil Factor
Analytical Me Analyst: Seq Number: Parameter	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529	06338 MQL 0.00200 0.00200	27 SDL 0.000486 0.000529	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09	U U	1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen	thod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407	06338 MQL 0.00200 0.00200 0.00200	27 SDL 0.000486 0.000529 0.000407	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U	1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylenc	thod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	27 SDL 0.000486 0.000529 0.000407 0.000755	Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U	1 1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene	thod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404	06338 MQL 0.00200 0.00200 0.00200	27 SDL 0.000486 0.000529 0.000407 0.000755 0.000404	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U U	1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylenc	thod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	27 SDL 0.000486 0.000529 0.000407 0.000755	Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U	1 1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene Total Xyler Total BTEX	thod: BTEX by EPA 8021 MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	27 SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404 0.000404	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U U U	1 1 1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene o-Xylene Total Xyler Total BTE> Surrogate	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404 <0.000404	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	27 SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404 0.000404 Uimits	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U U U	1 1 1 1
Analytical Me Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzen m,p-Xylene Total Xylen Total BTE> Surrogate 1,4-Difluor	thod: BTEX by EPA 8021 MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	% Moist: Date Prep: 06 Prep seq: 77 Result <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	06338 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	27 SDL 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404 0.000404	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09 06.29.2020 17:09	U U U U U U U	1 1 1 1 1



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 I	d: 665605-025		Date Collecte	ed: 06.24.20	20 14:03	Date	Received: 06.25.20	20 15:	45
Analytical Mo	ethod: Inorganic Anions by	EPA 300/300.1				Prep l	Method: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seq Number:	3130201		Date Prep: 00	5.26.2020 08	:45				
	0.000		•	706227					
Paramete	ы.	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	ethod: TPH by SW8015 Mo	d		÷		Prep 1	Method: 8015		
-	MAB	u.	% Moist:			Tech:	MAB		
Analyst:				576 2020 10	-05	10011.			
Seq Number:	3130203		Date Prep: 06		.05				
			Prep seq: 77	06261					
Paramete	r	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline R	ange Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.26.2020 18:30	U	1
-	ge Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.26.2020 18:30	U	1
Motor Oil Ra Total TPH	ange Hydrocarbons (MRO)	PHCG2835 PHC635	<11.4 <11.4	49.9	11.4 11.4	mg/kg mg/kg	06.26.2020 18:30 06.26.2020 18:30	U U	1
Totai Irri		FIIC035	\$11,4		21.1	mg/ng	06,20.2020 10.000	Ŷ	
Surrogate			% Recovery		Limits	Units	Analysis Date	;	Flag
1-Chlorooc	stane		96		70 - 135	%			
o-Terpheny	yl		101		70 - 135	%			
Analytical Me	thod: BTEX by EPA 8021					Prep N	fethod: 5035A		
Analyst:									
	MAB		% Moist:			Tech:	MAB		
-				,29.2020 09:	27	Tech:	MAB		
Seq Number:	3130305		Date Prep: 06		27	Tech:	MAB		
-	3130305	CAS Number			27 SDL	Tech: Units	MAB Analysis Date	Flag	Dil Factor
Seq Number:	3130305		Date Prep: 06 Prep seq: 77	06338			Analysis	Flag U	Dil Factor
Seq Number: Parameter	3130305	Number 71-43-2 108-88-3	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530	06338 MQL 0.00201 0.00201	SDL 0.000487 0.000530	Units mg/kg mg/kg	Analysis Date 06.29.2020 17:29 06.29.2020 17:29	U U	1
Seq Number: Parameter Benzene Toluene Ethylbenzer	3130305 r	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408	06338 MQL 0.00201 0.00201 0.00201	SDL 0.000487 0.000530 0.000408	Units mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	U U U	1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408 <0.000757	06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757	Units mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	U U U U	1 1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	3130305 r ne is	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000408 <0.000408 <0.000757 <0.000405	06338 MQL 0.00201 0.00201 0.00201	SDL 0.000487 0.000530 0.000408	Units mg/kg mg/kg mg/kg mg/kg mg/kg	Analysis Date 06.29.2020 17:29 06.29.2020 17:29 06.29.2020 17:29	U U U	1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	3130305 r ne rs nes	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000530 <0.000408 <0.000757	06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405	Units mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ	1 1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	3130305 r ne rs nes	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000408 <0.000408 <0.000757 <0.000405 <0.000405	06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U	1 1 1 1
Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	3130305 r ne rs K	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000487 <0.000408 <0.000408 <0.000757 <0.000405 <0.000405 <0.000405	06338 MQL 0.00201 0.00201 0.00201 0.00201 0.00402	SDL 0.000487 0.000530 0.000408 0.000757 0.000405 0.000405 0.000405	Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U U	1 1 1



•

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 I	d: 665605-026		Date Collect	ed: 06.24.202	20 14:06	Date 1	Received: 06.25.20	20 15:	45
Analytical Me	ethod: Inorganic Anions by I	EPA 300/300.1				Prep 1	Viethod: E300P		
Analyst:	MAB		% Moist:			Tech:	MAB		
Seg Number:	3130201		Date Prep: 0	6.26.2020 08	:45				
Duq Humber	5150201		Prep seq: 7						
Paramete	r	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 Me	ethod: TPH by SW8015 Mod	ł				Prep 1	Aethod: 8015		
Analyst:	МАВ		% Moist:			Tech:	MAB		
•			Date Prep: 00	5 26 2020 10 [.]	·05				
Seq Number:	3130203		-						
Paramete	r	CAS Number	Prep seq: 72 Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
		PHC610	<13.9	50.1	13.9	mg/kg	06.26.2020 18:50	U	1
	ange Hydrocarbons (GRO) ge Organics (DRO)	C10C28DRO	<11.5	50.1	13.9	mg/kg	06.26.2020 18:50	Ŭ	1
	ange 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	06.26.2020 18:50	υ	
Surrogate			% Recovery		Limits	Units	Analysis Date	!	Flag
1-Chlorooc o-Terpheny			93 97		70 - 135 70 - 135	% %			
Applytical Ma	thed. BTEX by FPA 8021					Prep N	fethod: 5035A		
•	thod: BTEX by EPA 8021		% Maist			-			
Analyst:	MAB		% Moist:	. 20 2020 00	27	Prep N Tech:	fethod: 5035A MAB		
•			Date Prep: 06		27	-			
Analyst:	MAB 3130305	CAS Number			27 SDL	-		Flag	Dil Factor
Analyst: Seq Number:	MAB 3130305		Date Prep: 06 Prep seq: 77	06338		Tech:	MAB Analysis	Flag U	Dil Factor
Analyst: Seq Number: Parameter	MAB 3130305	Number	Date Prep: 06 Prep seq: 77 Result	06338 MQL 0.00202 0.00202	SDL	Tech: Units mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50	U U U	I I
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer	MAB 3130305	Number 71-43-2 108-88-3 100-41-4	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409	06338 MQL 0.00202 0.00202 0.00202	SDL 0.000489 0.000532 0.000409	Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	U U U U	I I L
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	U U U U U	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene	MAB 3130305	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406	06338 MQL 0.00202 0.00202 0.00202	SDL 0.000489 0.000532 0.000409 0.000760 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	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	U U U U U U U	i F 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene	MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760	Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50 06.29.2020 17:50	U U U U U	1 I 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen	MAB 3130305 r	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1
Analyst: Seq Number: Parameter Benzene Toluene Ethylbenzer m,p-Xylene o-Xylene Total Xylen Total BTEX	MAB 3130305 r ne ss tes C	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	Date Prep: 06 Prep seq: 77 Result <0.000489 <0.000532 <0.000409 <0.000760 <0.000406 <0.000406 <0.000406	MQL 0.00202 0.00202 0.00202 0.00202 0.00202 0.00403	SDL 0.000489 0.000532 0.000409 0.000760 0.000406 0.000406 0.000406	Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	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	บ บ บ บ บ บ บ	1 1 1



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 Collect	ed:		Date	Received:		
Analytical Method: Inorganic Anions	by EPA 300/300.1				Prep	Method: E300P		
Analyst: MAB		% Moist:			Tech			
Seg Number: 3130200		Date Prep: 0	6.26.2020 08	:41				
		Prep seq: 7						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
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	ov EPA 300/300.1				Prep 1	Method: E300P		
Analyst: MAB		% Moist:			Tech:			
Seg Number: 3130201		Date Prep: 00	5.26.2020 08	:45				
		Prep seq: 7						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Facto
Chloride	16887-00-6	<0.354	10.0	0.354	mg/kg	06.26.2020 15:45	U	1
Sample Id: 7706231-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706231-1-BLK		Date Collecte	ed:		Date I	Received:		
Analytical Method: TPH by SW8015 M	1od				Prep 1	Aethod: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seg Number: 3130037		Date Prep: 06	5.25.2020 16:	48				
		Prep seq: 77	706231					
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	06.25.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.25.2020 18:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	06.25.2020 18:32	U	1
Survogate		% Recovery		Limits	Units	Analysis Date	_	Flag

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
l-Chlorooctane o-Terphenyl	83 71	70 - 135 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					Pren	Method: 5035A		
Analyst: MAB		% Moist:			Tech:			
5		Date Prep: 0	6 25 2020 16	•52	10011			
Seq Number: 3130038		Prep seq: 7						
		Prep seq: /	100233					
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 06.25.2020 19:17	บ บ	1 [
Ethylbenzene m_p-Xylenes	100-41-4 179601-23-1	<0.000406 <0.000754	0.00200 0.00400	0.000406 0.000754	mg/kg mg/kg	06.25.2020 19:17	υ	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000403	mg/kg	06.25.2020 19:17	U	1
Suuraata		% Recovery		Limits	Units	Analysis Dat	æ	Flag
Surrogate		•				ranaysis bar		1 1.45
1,4-Difluorobenzene 4-Bromofluorobenzene		98 95		70 - 130 70 - 130	% %			
) for the loss	Solid		Samal	a Donth		
Sample Id: 7706236-1-BLK		Matrix:			-	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	706236					
Parameter	CAS Number	Result	MQL	SDL	Units	Anałysis 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 U	1
m,p-Xylenes	179601-23-1 95-47-6	<0.000754 <0.000403	0.00400 0.00200	0.000754 0.000403	mg/kg mg/kg	06.26.2020 13:29 06.26.2020 13:29	U	1
o-Xylene	ノン ~ サイ~い	~0.000403	9.00200	0.000705	шғ/ ққ	JULDIEGEO 19.27	U	*
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 Collect	ed:		Date	Received:		
Analytical Method: TPH by SW801	5 Mod				Prep	Method: 8015		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130203		Date Prep: 0	6.26.2020 10	:05				
		Prep seq: 7						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO		<13.9	50.0	13.9	mg/kg	06.26.2020 11:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.26.2020 11:02 06.26.2020 11:02	U U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	00.20.2020 11.02	U	1
Surrogate		% Recovery		Limits	Units	Analysis Date		Flag
1-Chlorooctane		72		70 - 135	%			
o-Terphenyl		75		70 - 135	%			
Sample Id: 7706338-1-BLK		Matrix:	Solid		Samp	e Depth:		
Lab Sample Id: 7706338-1-BLK		Date Collecte	ed:		Date I	Received:		
Analytical Method: BTEX by EPA 8	8021				Prep N	Aethod: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130305		Date Prep: 06	5.29.2020 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	บ บ	I 1
m,p-Xylenes	179601-23-1	<0.000754	0.00400 0.00200	0.000754 0.000403	mg/kg mg/kg	06.29.2020 12:29 06.29.2020 12:29	U	1
o-Xylene	95-47-6	<0.000403	0.00200	0.000400	те/ке	00.27.2020 12,29	0	1
Surrogate		% Recovery		Limits	Units	Analysis Date		Flag
1,4-Difluorobenzene		99		70 - 130	%			
4-Bromofluorobenzene		102		70 - 130	%			

•



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

Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY True Recovery Control Amount Recovery %R [B] %R %R [D] 0.0300 98 0.0300 95 70-130 0.0300 95 70-130 Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY True Amount Recovery Limits Flag Flag
True Amount [B]Recovery %R %RControl Limits %RFlag0.03009870-1300.03009570-1300.03009570-130Batch: 1 Matrix: SolidSURROGATE RECOVERY STUDYTrue
0.0300 95 70-130 Batch: 1 Matrix:Solid SURROGATE RECOVERY STUDY True Control
0.0300 95 70-130 Batch: 1 Matrix:Solid SURROGATE RECOVERY STUDY True Control
SURROGATE RECOVERY STUDY True Control
SURROGATE RECOVERY STUDY True Control
[B] %R %R
[D]
0.0300 98 70-130
0.0300 104 70-130
atch: 1 Matrix:Solid SURROGATE RECOVERY STUDY
True Control Amount Recovery Limits [B] %R %R [D] [D]
0.0300 99 70-130 0.0300 106 70-130
atch: 1 Matrix:Soil SURROGATE RECOVERY STUDY
TrueControlAmountRecoveryLimits[B]%R%R
[D]
0.0300 98 70-130
0.0300 112 70-130
atch: 1 Matrix:Soil
SURROGATE RECOVERY STUDY
True Control Amount Recovery Limits Flags [B] %R %R [D]
0.0300 100 70-130
al al

* 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 :		DIK Det		D: 700794.33	32.01	
Lab Batch #: 31301	Ĩ				CTUDY	
Units: mg/kg	Date Analyzed: 06.26.2020 13:29 BTEX by EPA 8021 Analytes	Amount Found [A]	JRROGATE R True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0298	0.0300	99	70-130	
4-Bromofluorobenzene		0.0238	0.0300	109	70-130	
Lab Batch #: 313019		BKS Bate	ch: I Matrix	:Solid	1	<u>t</u>
Units: mg/kg	Date Analyzed: 06.26.2020 13:49		JRROGATE R	ECOVERY	STUDY	
	3TEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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		ch: 1 Matrix JRROGATE RI		STUDY	
	3TEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0285	0.0300	95	70-130	
4-Bromofluorobenzene		0.0288	0.0300	96	70-130	
Lab Batch #: 313019 Units: mg/kg	9 Sample: 665605-011 S / MS Date Analyzed: 06.26.2020 14:30		h: 1 Matrix RROGATE RI		STUDY	
	STEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 4 Diffuerohenzene	Analytes	0.0291	0.0300	97	70-130	
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0291	0.0300	99	70-130	
	2	1	L			
Lab Batch #: 313019 Units: mg/kg	9 Sample: 665605-011 SD / M Date Analyzed: 06.26.2020 14:51		h: 1 Matrix RROGATE RI		STUDY	
	STEX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
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.

Page 36 of 50



Project Name: Arabian 30-19 1H

Work Ord	ders : 6656 #: 3130305	605 Sample: 7706338-1-BLK / 1	BLK Bate		D: 700794.33 x:Solid	32.01	
Units:	mg/kg	Date Analyzed: 06.29.2020 12:29		JRROGATE RI		STUDY	
		EX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorol	henzene	Allalytts	0,0296	0.0300	99	70-130	t
4-Bromofluo		· · · · · · · · · · · · · · · · ·	0.0307	0.0300	102	70-130	[
Lab Batch #	# 3130305	Sample: 7706338-1-BKS / E	BKS Bate	ch: 1 Matrix	:Solid		
Units:	mg/kg	Date Analyzed: 06.29.2020 12:49		JRROGATE RI		STUDY	
	0 0	EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorot	henzenê	Analyics	0.0298	0.0300	99	70-130	İ
4-Bromofluo		······	0.0290	0.0300	100	70-130	
Lab Batch #		Sample: 7706338-1-BSD / E	BSD Batel	h: 1 Matrix	::Solid	<u> </u>	
Lab Batch #	mg/kg	Date Analyzed: 06.29.2020 13:10		RROGATE RI		STUDY	
		CX by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	ļ!		[D]		l
1,4-Difluorob			0.0302	0.0300	101 99	70-130	i
4-Bromofluor	robenzene		0.0296	0.0300	<u> </u>	70-150	
Lab Batch # Units:	#; 3130305 mg/kg	Sample: 665605-017 S / MS Date Analyzed: 06.29.2020 13:30		h: I Matrix: RROGATE RE		STUDY	
		EX by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorob			0.0296	0.0300	99	70-130	1
4-Bromofluor			0.0299	0.0300	100	70-130	I
Lab Batch #	#• 3130305	Sample: 665605-017 SD / M	ASD Batc'	h: 1 Matrix:	:Soil		
Units:	mg/kg	Date Analyzed: 06.29.2020 13:50		RROGATE RE		STUDY	
	BTE	X by EPA 8021	Amount Found [A]	Truc Amount [B]	Recovery %R [D]	Control Limits %R	Flags
t t Different		Analytes	0.0299	0.0300	100	70-130	
1,4-Difluorob 4-Bromofluor			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.



Project Name: Arabian 30-19 1H

	ders: 665				(D: 700794.33	32.01	
	#: 3130037	Sample: 7706231-1-BLK /		ch: 1 Matri: JRROGATE R	x:Solid	STUDY	
Units:	mg/kg TPH	Date Analyzed: 06.25.2020 18:32 by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct		Analytes	82.6	100	83	70-135	
o-Terpheny			35.4	50.0	71	70-135	· · · · ·
		a 1 770/021 1 DKG /			1	1	
	#: 3130037	Sample: 7706231-1-BKS / Date Analyzed: 06.25.2020 18:53		ch: 1 Matriv JRROGATE R		STUDY	
Units:	mg/kg TPH	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		h: Matrix RROGATE R		STUDY	
	ТРН	by SW8015 Mod Analytes	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		RROGATE RI	ECOVERY S	STUDY	
997777		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	70-135	

* 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 11:00			ID: 700794.33 x:Solid RECOVERY		
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 1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	53.0	50.0	108	70-135	
Lab Batch #: 3130203 Sample: 7706261-1-BSD	/BSD Bate	ı h: 1 Matrix	rtSolid	1	
Units: mg/kg Date Analyzed: 06.26.2020 11:4		RROGATE R		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	CT.	h: 1 Matrix RROGATE R		STUDY	
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes 1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	49.4	49.9	99	70-135	
	1	h: 1 Matrix	r Soil	L	
Lab Batch #: 3130203 Sample: 665605-011 SD Units: mg/kg Date Analyzed: 06.26.2020 13:0.	C1	RROGATE R		STUDY	
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
ADZIVIES	F	1	4 - 1		
1-Chlorooctane	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.

-
-
- N
5
\sim
2
<u>``</u>
2
1.1
9
~
9
\sim
0
N I
<u> </u>
6
-
1
Ci -
-
100
\mathbf{O}
0
\sim
5
-
9
-
2
~~~
0)
- 5
~
$\approx$



### **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	Spike	Blank ĉ :	Blank	Spike	Blank	Blk. Spk		Control	Control	
	-	Sample Kesult [A]	Added	Spike Result	Spike %R	Added	Spike Duplicate	Dup. %R	RPD %	Limits %R	Limits %RPD	Flag
Analytes			[ <b>B</b> ]	[C]	[ <b>D</b> ]	[3]	Result [F]	ତ				
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	2	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	1	70-135	35	
o-Xylene		<0.000403	0.100	0.105	105	0.100	0.106	106	1	71-133	35	
Analyst: MAB		D	tte Prepari	Date Prepared: 06.26.2020	0		*	Date A	nalyzed: (	Date Analyzed: 06.26.2020		
Lab Batch ID: 3130199	Sample: 7706236-1-BKS	3KS	Batch #:	1#: ]					Matrix: Solid	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

-
$\overline{}$
1
2
2
6
22
0
- )
0
21
0
2
6
~
<
<b>N</b>
-
0
22
$\mathbf{O}$
0
2
q
3
2
• 5
0
2
2
$\approx$



### **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

a ma Auda	0 4 0011	0115	- 13-3	114	-							
DILA UY EFA OVIL		Dialik Sample Result [A]	Added	blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %D	Control Limits & P.P.D.	Flag
Analytes			[B]	[0]	ē	[E]	Result [F]	[0]	2	ND/		
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	1	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		D	ite Prepar	Date Prepared: 06.26.2020	0			Date A	nalyzed: (	Date Analyzed: 06.26.2020		
Lab Batch ID: 3130200	Sample: 7706226-1-BKS	KS	Batch #:	1#:1					Matrix: Solid	Solid		
Units: mg/kg			BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	SPIKE / ]	BLANK 5	SPIKE DUP	LICATE	RECOV	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

and the second s
× .
5
~
<u> </u>
2.2
$\sim$
Ci.
1.1
6
~
-
-
$\sim$
0
2
~
6
Press.
1
0
2.4
-
11
100
$\mathbf{O}$
~
0
$\geq$
5
Press .
<u></u>
0
2
· 100
0
- 5
~
<u> </u>
$\sim$



### **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

Inorganic Anions by EPA 300/300.1	oy EPA 300/300.1	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk	2	Control	Control	
•	•	Sample Result [A]	Addeđ	Spike Result	Spike %R	Added	Spike Duolicate	Dup. %R	RPD %	Limits %P	Limits % DPD	Flag
Analytes			Ð		ē	E	Result [F]	ত্র	2			
Chloride		<0.354	250	253	101	250	261	104	m	90-110	20	
Analyst: CAC		Da	tte Preparo	Date Prepared: 06.25.2020	30			Date A	Date Analyzed: 06.25.2020	6.25.2020		
Lab Batch ID: 3130037	Sample: 7706231-1-BKS	BKS	Batch #:	1#: 1					Matrix: Solid	olid		
Units: mg/kg			BLAN	K /BLANK	SPIKE / I	<b>3LANK S</b>	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	LICATE	RECOVI	ERY STUE	λ	

				-									
	TPH by SW8015 Mod	015 Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Snike	Spike	Blank Snike	Blk. Spk	UQQ	Control	Control	5
			[Y]		Result	%R	nannes	Duplicate	чр. %В	۲N %	Lunus %R	Ud B/	681 A
Ana	Analytes			[B]	[C]	[a]	(E)	Result [F]	ভ				
Gasolin	Gasoline Range Hydrocarbons (GRO)	(GRO)	<13.9	1000	743	74	1000	835	84	12	70-135	35	
Diesel F	Diesel Range Organics (DRO)		<11.5	1000	889	68	1000	985	66	10	70-135	35	
and the state of t									, ,	24	221.21	2	
Analyst:	MAB		$D_2$	te Prepare	Date Prepared: 06.26.2020	0			Date A	Date Analyzed: 06.26.2020	6.26.2020		
Lab Batch I	Lab Batch ID: 3130203	Sample: 7706261-1-BKS	BKS	Batch #:	#: 1					Matrix: Solid	olid		
Units:	mg/kg			RLAN	BLANK /BLANK SPIKE / BLANK SPIKE NTPI ICATE BECOMEDW STITEW	SPIKE / F	N A NK S	ialiu alia			nny cru		

TPH by SW8015 Mod	Blank	Spike	Blank 3	Blank	Spike	Blank	Blk. Spk		Control	Control	
	Sample Result [A]	Dappy	Spike Result	spike %R	Added	Spike Duplicate	Dup. %R	RPD %	Limits %R	Limits %RPD	Flag
Analytes		[ <u>8</u> ]	[c]	ā	[E]	Result [F]	[0]				
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	741	74	1000	853	85	14	70-135	35	
Diesel Range Organics (DRO)	<11.5	1000	892	68	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





# Form 3 - MS / MSD Recoveries

### Project Name: Arabian 30-19 1H

665605	3130038	06.25.2020	mg/kg
Work Order # :	Lab Batch ID:	Date Analyzed:	<b>Reporting Units:</b>

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

BTEX by EPA 8021	Parent		Spiked Sample	Spiked		Duplicate			Control	Control	
Analytes	Sample Result [A]	Spike Added [B]	Result Sample [C] %R [D]	Sample %R [D]	Spike Added [E]	Spiked Sample Result [F]	Dup. %R [G]	RPD %	Limits %R	Limits %RPD	Flag
Benzene	<0.000484	0.0996	0.115	115	0.0998	0.120	120	4	70-130	35	
Toluene	<0.000526	0.0996	0.112	112	8660.0	0.119	119	6	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	86	0.0998	0.110	110	12	71-133	35	
Lab Batch ID: 3130199	QC-Sample ID: 665605-011 S	665605	-011 S	Bai	Batch #:	l Matrix	Matrix: Soil			-	
Date Aualyzed: 06.26.2020	Date Prepared:	06.26.2020	020	An	Analyst: N	MAB					
Reporting Units: mg/kg											

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021	Parent Sample Result		Spiked Sample Spike Result Samp	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	2	¥ [0]	E]	Kesuit [F]		%	%К	%RPD	
Benzene	<0.000484	9660.0	0.0925	93	0.100	6960.0	97	s	70-130	35	
Toluene	<0.000526	0.0996	0.0928	93	0.100	0.0969	97	4	70-130	35	
Ethylbenzene	<0.000405	0.0996	0.0994	100	0.100	0.103	103	4	71-129	35	
m,p-Xylenes	<0.000751	0.199	0.204	103	0.201	0.209	104	2	70-135	35	
o-Xylene	<0.000401	9660'0	0.102	102	0.100	0.105	105	е	71-133	35	

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

RTRY hv PDA 2071	Parent	and the second	Spiked Sample	Spiked		Dunlicate	Soiked		Control	Control	
Analytes	Sample Result [A]	Spike Added [B]	Result Sample [C] %R	Sample %R [D]	Spike Added [E]	e Spiked Sample I ed Result [F]	Dup. %R [G]	RPD %	Limits %R	Limits %RPD	Flag
Benzene	<0.000486	0.100	0.109	109	0.100	0.107	107	14	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- Sample ID:	665597-001 S	-001 S	Bat	Batch #:	1 Matrix: Soil	c: Soil				
Date Analyzed: 06.26.2020	Date Prepared:	06.26.2020	020	An	Analyst: N	MAB					
Reporting Units: mg/kg					,						

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

	1		-		ĺ		and a second sec				
Inorganic Anions by EPA 300/300.1	Parent	:	Spiked Sample	Spiked		Duplicate	Spiked		Control	Control	
	Result	Spike	Kesult	Sample %P	Spike	Spiked Sample Decuit (E)	Dup.	RPD *	Limits	Limits	Flag
Analytes	[ <b>A</b> ]	B	Σ	Į	læ]	I al associated and a second		0%	70K	%KPD	
					1		5				
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

665605	3130200	06.26.2020	mg/kg
Work Order # :	Lab Batch ID:	Date Analyzed:	<b>Reporting Units:</b>

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	norganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spîked Dup,	RPD	Control Limits	Control Limits	Flac
	Analytes	Result [A]	Added [B]	[C] %R /	%R [0]	Added [E]	Result [F]	%R [G]	%		%RPD	۵ ۲
Chloride		9.25	200	195	93	200	196	93	-	90-110	20	
Lab Batch ID:	3130201 QC	QC- Sample ID: 665605-011 S	665605-	011 S	Bat	Batch #:	l Matrix:	: Soil				
Date Analyzed:	06.26.2020 Da	Date Prepared:	06.26.2020	120	Ans	Analyst: M	MAB					
Reporting Units:	mg/kg					•						

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorgan	Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dun.	RPD	Control Limits	Control	Flac
	Analytes	Result [A]	Added [B]	[C] %R	D] %	Added [E]	Result [F]	[G]	%		%RPD	10 5 7
Chloride		6.67	199	196	95	199	196	95	0	90-110	20	
Lab Batch ID:	3130201 Q	DC- Sample ID:	665605-021 S	021 S	Bat	Batch #:	1 Matrix: Soil	: Soil				
Date Analyzed:	06.26.2020 D	ate Prepared:	06.26.2020	020	Ans		MAB					
<b>Reporting Units:</b>	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	F130
Analytes	Result [A]	Added [B]	<u>כ</u>	%R [D]	Addeð [E]	Result [F]	%R [G]	%	%R	%RPD	ρ 
Chloride	6.55	200	192	93	200	192	93	0	90-110	20	

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 = 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

Page 118 of 124



# Form 3 - MS / MSD Recoveries

### Project Name: Arabian 30-19 1H

665605	3130037	06.25.2020	mg/kg
Work Order # :	Lab Batch ID:	Date Analyzed:	<b>Reporting Units:</b>

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

L	TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Spike Result Sampl	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Kesult [A]	Added [B]		8% [Ū]	Added [E]	Result [F]	%R [G]	%		%RPD	<del></del>
Gasoline Range l	Gasoline Range Hydrocarbons (GRO)	<13.9	866	1000	100	995	968	57	e	70-135	35	
Diesel Range Organics (DRO)	ganics (DRO)	<11.4	866	1120	112	566	1130	114	-	70-135	35	
Lab Batch ID:	3130203 QC	QC- Sample ID: 665605-011 S	665605-	011 S	Bat	Batch #:	1 Matrix: Soil	: Soil		-	-	
Date Analyzed:	06.26.2020 Ds	Date Prepared:	06.26.2020	120	Ans	Analyst: M	MAB					
Reporting Units:	mg/kg											

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	<b>*</b> 4	Duplicate Spiked Sample	Spiked Dun,	RPD	Control Limits	Control Limite	nelii Flac
Analytes	Result [A]	Added [B]	<u>[</u> ]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range Hydrocarbons (GRO)	<13.9	866	904	16	995	931	94	9	70-135	35	
Diesel Range Organics (DRO)	<del>7</del> 11'>	866	1100	110	995	1120	113	7	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

Page 119 of 124

and a second sec
1
<b>V</b>
-
-
4
-
-
0.
_
-
$\sim$
$\sim$
-
0
<u> </u>
0.0
-
8
~
<b>D</b>

	3 1 mile Relinquished by: (Signati	Relinquished by (Signature) Received by: (Signature) Received by: (Signature) Relinquished to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	of schrüce. Kence will be labol only for the cost of samples constitutes a valid purchase order from ellent company to Xence. It affiliates and subcontractors. It assigns standard terms and conditions of Xence. A minimum charge of \$85.00 will be applied to each project and a source any responsibility for any losses or expenses incurred by the ellent if such force and the source and conditions of the second secon	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Fe Instance of this documentation of the d	RCRA 13PPM Texas 11 Al Sh As Ba Ba Ba A	5-52'	5 0~1' 13:	1.5 R    3.	5-3 0-1	5-2 1.5 CR	$5 \cdot 2 \cdot 0 - 1$	1.5 R 501 8-29-20	Derduren	Depth Grabi	Corrected Temperature	Seals Yes No N/A Temperature Reading: 7,5X	Yes No Via Correction Factor - 0-2	c ((Yes) No Wet Ice: ) (	the lab, if received by 4:30pm	Sampler's Name: Brand day Since a Tal starts the day non-	Rush Code	$\frac{30-19}{10}$ / H Turn Around		W Lexa		Pavia Ad	تعتتريم. تترك (1913) 20-2000, Tailahassee, FL (2013) 20-2000, Tailahassee, FL (2013) 20-2014, Delray Reach ביו יובקו אינט ביות-	LABORATORIES Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 784-1286 Hobbs NM /FTX) 202 TERO
6185120 15:45	ignature) Date/Time	<ul> <li>encourse or circumstances beyond the control         <ul> <li>enforced unless previously negotiated.</li> </ul> </li> </ul>	rs. It assigns standard torms and conditions	SIO2 Na Sr TI Sn									Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₂	NaHSO: NABIS		HCL: HC HNO3; HN	Cool: Cool: Machine H ₂ O				State of Project;	Order comments	WWW.xenco.com Page of of		ubbook, TX (808) 784-1286 Work Order No: (656 2)



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

Final 1.000

Page 47 of 50

of service. Xence will be liable only for the cost of samples and shall not assume any unappression of the company to Xence, its affiliates and subcontractors. It assigns standard items and conditions         Cf Xence, A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Xence, but not analyzed. These terms will be enforced unless previously negotiated.         Relinquished by: (Signature)       Received by: (Signature)         Beceived by: (Signature)       Beceived by: (Signature)         Date/Time       Relinquished by: (Signature)         3       Date/Time         3       Signature)	Non Vicing     N
ittons ontrol (Signature) Date/Time	www.xenco.com       Page       of         Work Order Comments       PST       PRP       Brownfields       RRC       luperfund         II       Level III       PST/UST       I'RRP       Level IV       D         DD       ADePT       Other.       Other.         Vonce: NO       DI Water: H ₂ O       Ocod: Cool       MeOH: Me         HCL: HC       HNO3: H2       NaNSO3: NaSO3       Zn Acetate+NaOH: Zn         NaOH+Ascorbic Acid: SAPC       Sample Comments       Sample Comments

•

Work Order No: 225605

<ul> <li>/ SPLP 6010: 8RCF</li> <li>s valid purchase order from ume any responsibility for an thange or 55 for each sample</li> <li>(Signature)</li> </ul>	BRCRA 13PPM Texas 11 Al Ch A D- D	5-12 0-1 × 11 12 12 12 12 12 12 12 12 12 12 12 12	12:50	Sample Identification Matrix	Seals: Ves No Upernometer ID- Seals: Ves No NA Temberature Reading: Ceratis: Ves No NA Temberature Reading:	Blank Yes No	200794.332.01 ( I Row Lea County Due D	Arabian 30-19 1H Tum Around 1	and the second with the second		
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		ANALYSIS REQUEST Preservative Codes	Ion Ipe. Com     Deliverables: EDD     ADaPT     Other	Brownfields	White Mork Order Comments	10) 508-3334 38) 794-1296 3) 355-0900 (561) 683-6701

•

### **XENCO** Laboratories

### Prelogin/Nonconformance Report- Sample Log-In

Client: Talon LPE-Artesia	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient						
Date/ Time Received: 06.25.2020 03.45.00 PM	-	• -					
Work Order #: 665605	Temperature Measuring de	ovice used: T NM 007					
Sample Recei	pt 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 Date
amaxwell	None	9/20/2022

Page 124 of 124

Action 11697

.