State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Page 1 of 185

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)			
Arabian 30-19 Fed Com 1H)			

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

	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: 10/24/2017 @ 2:14 PM MST	Date and Hour of DiscoveryΓ10/24/2017 @ 2:14 PM MST
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	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		

#### 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 directive
Date:         10/30/2017         Phone:         (575)746-5544           * Attach Additional Sheets If Necessary	1RP-4867

nOY1732133962

pOY1732135037

#### Released to Imaging: 9/20/2022 12:56:55 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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 185



Released to Imaging: 9/20/2022 12:56:55 PM

Received by OCD: 2/22/2021 3:06:00 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	NOY1732133962
District RP	1RP-4867
Facility ID	30-025-43176
Application ID	

Page 5 of 185

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>348</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal 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
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🖂 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- $\boxtimes$  Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Page 3

Received by OCD: 2/22/202	3:06:00 PM State of New Mexico			Page 6 of 185
			Incident ID	NOY1732133962
Page 4	Oil Conservation Divisior	1	District RP	1RP-4867
			Facility ID	30-025-43176
			Application ID	
regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Brandon Si		otifications and perform co e OCD does not relieve the meat to groundwater, surfa of responsibility for compl Title: Environmental	prrective actions for rele e operator of liability sh ce water, human health liance with any other fe Project Manager	eases which may endanger ould their operations have or the environment. In
OCD Only Received by:		_ Date:		

Page 6

Oil Conservation Division

Incident ID	NOY1732133962
District RP	1RP-4867
Facility ID	30-025-43176
Application ID	

Page 7 of 185

# 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 Title: Environmental Project Manager Signature: Date: 2-22-2021 email: bsinclair@talonlpe.com Telephone: 575-746-8768 **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_ Printed Name: Title: \_\_\_\_\_

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talonlpe.com • 866.742.0742



### **Remediation and Closure Report**

Arabian 30 19 Federal Com #001H Trionyx Frac Pond Lea County, NM API# 30-025-43176, NOY1732133962 (1RP-4867)

### **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

February 17, 2021

Page | 1

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

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

Subject: Remediation and Closure Report Arabian 30 19 Federal Com #001H Trionyx Frac Pond Lea County, NM API# 30-025-43176, NOY1732133962 (1RP-4867)

Dear Mr. Amos & Mr. Bratcher,

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, remediation activities and closure request are contained herein.

#### Site Information

The Arabian 30 19 Federal Com #001H Trionyx Frac Pond is located approximately fifty-one (51) miles southwest of Hobbs, New Mexico. While the well with which this release is associated is located within Lea County, the release itself occurred 2.3 miles northwest of the location in Eddy County. The legal location for this release is Unit Letter P, Section 2, Township 25 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.154251 North and -103.740418 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. See Appendix II for the referenced soil data. 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 348' 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 De	epth to Groundwater	348 Feet/BGS
∐Yes ⊠No	Within 300 feet of any continu any other significant waterco	uously flowing watercourse or urse
□Yes ⊠No	Within 200 feet of any lakebe	ed, sinkhole or playa lake
□Yes ⊠No	Within 300 feet from an occu school, hospital, institution or	• •
□Yes ⊠No		a private, domestic fresh water ouseholds for domestic or stock
□Yes ⊠No □Yes ⊠No	Municipal fresh water well fie	water well or spring al boundaries or within a defined eld covered under a municipal 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 su Within an unstable area Within a 100-year floodplain	ubsurface mine

While well data exists within a half-mile of the boundary of this release, the depth to groundwater cannot be definitively determined from it. For this reason, a boring was advanced at sample point S-1 using an air-rotary drill rig to 51' in order to exclude the presence of water at that depth. As no groundwater was encountered after a 72-hour interval, the closure criteria for this site are as follows:

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	Table I Closure Criteria for Soils Impacted by a Release					
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**			
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg			
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg			
	GRO+DRO	EPA SW-846 Method 8015M	1,000 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 24, 2017, air pressure in a layflat line caused it to come out of the frac pond and spill approximately 50 barrels (bbls) of produced water onto the pad area. A vacuum truck recovered 40 bbls of fluid. The initial C-141 detailing this incident is attached in Appendix III. A site map illustrating the affected area is presented in Appendix I.

#### 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. Additional sampling was performed, using direct-push sampling technology, on September 16, 2020 in order to further delineate the impacted area. To verify the presence or absence of groundwater at depths below 50-feet (and to complete vertical delineation), an air-rotary drill rig was utilized (a soil boring log is presented in Appendix II). Groundwater was not encountered at 51-feet BGS after a 72-hour interval. Results from our sampling events are presented in the following data table. Complete laboratory reports can be found in Appendix V.

Page | 4

Table 1 : Soil Sample Analysis									
Sample	Depth	Data	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
ID	(ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg	1,000	mg/kg		2,500 mg/kg	10,000 mg/kg
	0-0.5 R	6/24/2020	ND	ND	ND	ND	ND	-	10000
	1-2	9/16/2020	NT	NT	NT	NT	NT	-	204
	2-3	9/16/2020	NT	NT	NT	NT	NT	-	928
S-1	3-4	9/16/2020	NT	NT	NT	NT	NT	-	1910
	6	11/18/2020	NT	NT	NT	NT	NT	-	700
	8	11/18/2020	NT	NT	NT	NT	NT	-	410
	10	11/18/2020	NT	NT	NT	NT	NT	-	130
	0-0.5 R	6/24/2020	ND	ND	ND	ND	ND	-	1370
	1-2	9/16/2020	NT	NT	NT	NT	NT	-	911
	2-3	9/16/2020	NT	NT	NT	NT	NT	-	281
S-2	3-4	9/16/2020	NT	NT	NT	NT	NT	-	3370
	6	11/18/2020	NT	NT	NT	NT	NT	-	880
	8	11/18/2020	NT	NT	NT	NT	NT	-	250
	10	11/18/2020	NT	NT	NT	NT	NT	-	360
	0-0.5	6/24/2020	ND	ND	ND	ND	ND	-	38.9
	1	6/24/2020	ND	ND	ND	ND	ND	-	24.5
	2	6/24/2020	ND	ND	ND	ND	ND	-	232
S-3	2.5 R	6/24/2020	ND	ND	ND	ND	ND	-	1530
3-5	3-4	9/16/2020	NT	NT	NT	NT	NT	-	5250
	6	11/18/2020	NT	NT	NT	NT	NT	-	480
	8	11/18/2020	NT	NT	NT	NT	NT	-	160
	10	11/18/2020	NT	NT	NT	NT	NT	-	120
	0-0.5 R	6/24/2020	ND	ND	ND	ND	ND	-	57.2
	1	6/24/2020	ND	ND	ND	ND	ND	-	17.6
	2	6/24/2020	ND	ND	ND	ND	ND	-	19.6
S-4	2.5 R	6/24/2020	ND	ND	ND	ND	ND	-	67.3
	3-4	9/16/2020	NT	NT	NT	NT	NT	-	321
	6	11/18/2020	NT	NT	NT	NT	NT	-	250
	8	11/18/2020	NT	NT	NT	NT	NT	-	160
	10	11/18/2020	NT	NT	NT	NT	NT	-	120

### Table 1 : Soil Sample Analysis

Page | 5

Sample ID	Depth (ft.)	Date	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	<b>Total TPH</b> (mg/kg)	Cl (mg/kg)
C	losure Ci .15.29.12		50 mg/kg	10 mg/kg	1,000		(***8)***8)	2,500 mg/kg	10,000 mg/kg
	0-1	9/16/2020	ND	ND	ND	ND	ND	-	153
	1-2	9/16/2020	ND	ND	ND	ND	ND	-	63.1
	2-3	9/16/2020	ND	ND	ND	ND	ND	-	23.7
S-5	3-4	9/16/2020	ND	ND	ND	ND	ND	-	259
	6	11/19/2020	NT	NT	NT	NT	NT	-	300
	8	11/19/2020	NT	NT	NT	NT	NT	-	140
	10	11/19/2020	NT	NT	NT	NT	NT	-	120
	0-1	9/16/2020	ND	ND	ND	ND	ND	-	186
	1-2	9/16/2020	ND	ND	ND	ND	ND	-	121
	2-3	9/16/2020	ND	ND	ND	ND	ND	-	327
S-6	3-4	9/16/2020	ND	ND	ND	ND	ND	-	1030
	6	11/19/2020	NT	NT	NT	NT	NT	-	1100
	8	11/19/2020	NT	NT	NT	NT	NT	-	180
	10	11/19/2020	NT	NT	NT	NT	NT	-	170
	0-1	9/16/2020	ND	ND	ND	ND	ND	-	221
	1-2	9/16/2020	ND	ND	ND	ND	ND	-	70.9
	2-3	9/16/2020	ND	ND	ND	ND	ND	-	307
6.7	3-4	9/16/2020	ND	ND	ND	ND	ND	-	1250
S-7	6	11/19/2020	NT	NT	NT	NT	NT	-	720
	8	11/19/2020	NT	NT	NT	NT	NT	-	560
	10	11/19/2020	NT	NT	NT	NT	NT	-	530
	12	11/19/2020	NT	NT	NT	NT	NT	-	150
	0-1	9/16/2020	ND	ND	ND	ND	ND	-	155
	1-2	9/16/2020	ND	ND	ND	ND	ND	-	54
	2-3	9/16/2020	ND	ND	ND	ND	ND	-	154
S-8	3-4	9/16/2020	ND	ND	ND	ND	ND	-	332
	6	11/19/2020	NT	NT	NT	NT	NT	-	ND
	8	11/19/2020	NT	NT	NT	NT	NT	-	ND
	10	11/19/2020	NT	NT	NT	NT	NT	-	ND

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Sample	Depth		BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
ID	(ft.)	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	(10.)		(116/16)	(116/16)	(116/16/	(116/16/	(116/16/	(116/16)	(116/16/
	losure Ci		50	10	1,000	mø/kø		2,500	10,000
19.	15.29.12	2 NMAC	mg/kg	mg/kg	1,000			mg/kg	mg/kg
	0-1	9/16/2020	ND	ND	ND	ND	ND	-	1050
	1-2	9/16/2020	ND	ND	ND	ND	ND	-	576
	2-3	9/16/2020	ND	ND	ND	ND	ND	-	569
S-9	3-4	9/16/2020	ND	ND	ND	ND	ND	-	1160
	6	11/19/2020	NT	NT	NT	NT	NT	-	ND
	8	11/19/2020	NT	NT	NT	NT	NT	-	ND
	10	11/19/2020	NT	NT	NT	NT	NT	-	ND
	0-1	11/19/2020	ND	ND	ND	ND	ND	-	180
	2	11/19/2020	ND	ND	ND	ND	ND	-	78
	3	11/19/2020	ND	ND	ND	ND	ND	-	98
S-10	4	11/19/2020	ND	ND	ND	ND	ND	-	130
	6	11/19/2020	ND	ND	ND	ND	ND	-	250
	8	11/19/2020	ND	ND	ND	ND	ND	-	150
	10	11/19/2020	ND	ND	ND	ND	ND	-	140
BG-1	0	11/18/2020	ND	ND	ND	ND	ND	-	100
BG-2	0	11/18/2020	ND	ND	ND	16	ND	16.0	75
BG-3	0	11/18/2020	ND	ND	ND	ND	ND	-	87
BG-4	0	11/18/2020	ND	ND	ND	ND	ND	-	89
BG-5	0	11/18/2020	ND	ND	ND	ND	ND	-	100
BG-6	0	11/18/2020	ND	ND	ND	ND	ND	-	85

ND=Analyte Not Detected R= Hand Auger Refusal

NT=Analyte Not Tested

### **Conclusions and Recommendation**

• As the concentration of all contaminants is below NMOCD closure criteria, and the vertical extent of the contamination has been delineated, we ask that no further action be required in regard to this incident.

Page | 7

#### Closure

Based on this assessment, we respectfully 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 Boring Log, Groundwater & Soil Data, FEMA Flood Map

Appendix III C-141 Forms

Appendix IV Photographic Documentation

Appendix V Laboratory Data



# <u>APPENDIX I</u>

# SITE MAPS











# <u>APPENDIX II</u>

# SOIL BORING LOG

# **GROUNDWATER DATA**

# **SOIL SURVEY**

# FEMA FLOOD MAP

Received by OCD: 2/22/2021 3:06:00 PM



## **BORING LOG**

Project No.: 700794.336.01 Site Name: Trionyx Frac Pond

Location: Lea County, New Mexico

Date: 11/18/2020

Boring Number: S-1

Weather: Sunny, Warm Temp.: 80's °FDriller: M. DoyleLogger: B. SinclairRig Type: Geoprobe 7822DTField Instrument: Lab AnalysisBit Size: 5 ¼"Latitude: 32.154386°NDrilling Method: Air RotaryLongitude: -103.740605°WSample Retrieval Method: Core Liner

Sample Material/Comments Hydrocarbon Odor Composition (%) Lab Sample PID (ppm) Sample Recovery (ft) Include composition, color, grain size, moisture, hardness, Collected Sample Interval USCS Time plasticity, density (ft) None 0-10' White fine Sand (SP) with trace amounts of caliche. None 10-15' Light tan fine Sand (SP) with varying amounts of caliche. Pinkish-gray fine Sand (SP) with varying amounts of None caliche. 15-25' Dark red/brown fine Sand (SP). None 25-40' Brown gravelly fine Sand (SW). None 40-45' Dark red/brown fine Sand (SP). None 45-51' Surface Elevation: 3,600' Notes: TD 51', Groundwater Not Encountered

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(	•					2=NE 3 st to lar	3=SW 4=SE gest) (N	E) IAD83 UTM in me	eters)	(	In feet)	
POD Number	POD Sub- Code basin C	County		Q 16	_	Sec	Tws	Rna	х	Y	Distance	-	Depth Water	Water Column
C 03830 POD1	CUB	ED						31E	618632	3558432 🌍	251	450	mater	oolaliili
C 02570	CUB	ED	4	2	4	02	25S	31E	618704	3558489* 🌍	271	895		
<u>C 02569</u>	CUB	ED	4	4	2	02	25S	31E	618699	3558891* 🌍	667	1016		
<u>C 02568</u>	CUB	ED	4	3	1	01	25S	31E	619103	3558892* 😜	738	1025		
<u>C 02573</u>	CUB	ED	1	4	2	02	25S	31E	618499	3559091* 🌍	906			
<u>C 02572</u>	CUB	ED	4	2	2	02	25S	31E	618695	3559294* 😜	1068	852		
<u>C 02571</u>	CUB	ED	4	1	2	02	25S	31E	618292	3559294* 🌍	1171	860		
<u>C 02574</u>	CUB	ED	1	1	2	02	25S	31E	618092	3559494* 🌍	1440			
										Avera	ge Depth to	Water:		
											Minimum	Depth:		
											Maximum	Depth:		
Record Count: 8 UTMNAD83 Radius S	Search (in mete	rs):			_									

Easting (X): 618778.83

Northing (Y): 3558228.34

Radius: 3000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/28/20 1:29 PM



# New Mexico Office of the State Engineer Point of Diversion Summary

				W 2=NE 3= allest to larg	Coll 2 C R. Chen - Million	AD83 UTM in mele	ars)
Well Tag POD	) Number	Q64 Q	16 Q4 5	Sec Tws	Rng	х	٧
C 0	3830 POD1	4	2 4	02 255	31E 61	8632 35584	32 💮
Driller License:	1607	Driller C	ompan	v: DL	RAN DRILL	ING	
Driller Name:	DURAN, LUIS A.						
Drill Start Date:	01/28/2015	Drill Fini	ish Date	e: 0	2/02/2015	Plug Date	:
Log File Date:	02/23/2015	PCW Rc	v Date:			Source:	Shallow
Pump Type:		Pipe Dis	charge	Size:		Estimated	Vield: 15 GPM
Casing Size:	7.00	Depth W	ell:	4	50 feet	Depth Wa	ter:
Wate	r Bearing Stratifi	cations:	Тор	Bottom	Descripti	on	
			348	378	Sandston	e/Gravel/Cong	lomerate
			384	448	Sandston	e/Gravel/Cong	lomerate
	Casing Perfe	orations:	Тор	Bottom			
			220	450			

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/10/20 1:58 PM

POINT OF DIVERSION SUMMARY

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded --- Eddy Area, New Mexico

### 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

*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 Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

#### 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



# Received by OCD: 2/22/2021 3:06:00 PM National Flood Hazard Layer FIRMette



### Legend

Page 28 of 185



Releasea to Imaging: 9/20/2022 92.56:55 PM 1,500 2,000



# APPENDIX III

# C-141 FORMS

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 Co LP (6137)	Contact Stephen Richards, Devo	n Completions Forema	an
Address PO BOX 250, Artesia, NM 88211	Telephone No. (575) 252-3717		
Facility Name: Trionyx Frac Pond (Completing wells on the	Facility Type Oil		
Arabian 30-19 Fed Com 1H)			
	•		

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

#### LOCATION OF RELEASE

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

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 Date and Hour of Occurrence: Source of Release: Lay Flat Transfer Line 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: Attached directive
Date:         10/30/2017         Phone:         (575)746-5544           * Attach Additional Sheets If Necessary	

nOY1732133962

pOY1732135037

#### Released to Imaging: 9/20/2022 12:56:55 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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 33 of 185



Released to Imaging: 9/20/2022 12:56:55 PM

Received by OCD: 2/22/2021 3:06:00 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 34 of 18	35
ncident ID	NOY1732133962	
District RP	1RP-4867	
Facility ID	30-025-43176	

Application ID

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>348</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal 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
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\boxtimes$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- $\boxtimes$  Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Page 3

<b>Received by OCD: 2/22/2021 3:0</b> Form C-141 Page 4	6:00 PM State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID	Page 35 of 185           NOY1732133962           1RP-4867           30-025-43176
regulations all operators are require public health or the environment. failed to adequately investigate and	n given above is true and complete to the best of m ed to report and/or file certain release notifications The acceptance of a C-141 report by the OCD does I remediate contamination that pose a threat to grou 41 report does not relieve the operator of responsib	and perform corrective actions for rel not relieve the operator of liability sl indwater, surface water, human healt	leases which may endanger hould their operations have h or the environment. In
Printed Name: Brandon Sinclai	r Title: Ei	nvironmental Project Manager	
Signature:	Date: 2-	22-2021	
email: bsinclair@talonlpe.com	Telepho	ne: 575-746-8768	
OCD Only Received by:		Date:	

Oil Conservation Division

Incident ID	NOY1732133962
District RP	1RP-4867
Facility ID	30-025-43176
Application ID	

Page 36 of 185

# 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 Title: Environmental Project Manager Signature: Date: 2-22-2021 Telephone: 575-746-8768 email: bsinclair@talonlpe.com **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: \_ **APPROVED** Date: Environmental Specialist By Ashley Maxwell at 12:46 pm, Sep 20, 2022 Printed Name: \_ Title:


# <u>APPENDIX IV</u>

# PHOTOGRAPHIC DOCUMENTATION

# Arabian 30 19 Fed Com 1H Trionyx Frac Pond Photographs



# Arabian 30 19 Fed Com 1H Trionyx Frac Pond Photographs





# <u>APPENDIX V</u>

# LABORATORY DATA



# Analytical Report 665597

for

# **Talon LPE-Artesia**

**Project Manager: David Adkins** 

Trionyx Frac Pond 700794.336.01

06.29.2020

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)



06.29.2020

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

Reference: XENCO Report No(s): 665597 Trionyx Frac Pond 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) 665597. 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. 665597 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,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Page 2 of 25



Sample Id S-1 0-0.5' R S-2 0-0.5' R S-3 0-0.5' S-3 1' S-3 2' S-3 2.5' R S-4 0-0.5' R S-4 1' S-4 2' S-4 2.5' R

# Sample Cross Reference 665597

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	06.24.2020 10:25		665597-001
S	06.24.2020 10:30		665597-002
S	06.24.2020 10:45		665597-003
S	06.24.2020 10:48		665597-004
S	06.24.2020 10:52		665597-005
S	06.24.2020 10:56		665597-006
S	06.24.2020 11:00		665597-007
S	06.24.2020 11:05		665597-008
S	06.24.2020 11:08		665597-009
S	06.24.2020 11:11		665597-010





Client Name: Talon LPE-Artesia Project Name: Trionyx Frac Pond

 Project ID:
 700794.336.01

 Work Order Number(s):
 665597

 Report Date:
 06.29.2020

 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



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-1 0-0.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-001		Date Collecte	ed: 06.24.202	20 10:25	Date 1	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: 06	5.26.2020 08:	:41				
5150200			706226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	10000	99.6	3.53	mg/kg	06.26.2020 11:46		10
Analytical Method: TPH by SW8015 Mo	d				Prep I	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 06	5.25.2020 16:	:48				
5120027		Prep seq: 77						
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	06.25.2020 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	06.25.2020 19:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	06.25.2020 19:55	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	06.25.2020 19:55	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1-Chlorooctane		100		70 - 135	%			
o-Terphenyl		102		70 - 135	%			
Analytical Method: BTEX by EPA 8021					Pren	Method: 5035A		
		% Moist:			Tech:			
•			< 25 2020 1 <i>6</i>	.50	Tech.	MAD		
Seq Number: 3130038		Date Prep: 06 Prep seq: 77		.52				
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 21:38	U	1
Toluene	108-88-3	< 0.000529	0.00200	0.000529	mg/kg	06.25.2020 21:38	U	1
Ethylbenzene	100-41-4	< 0.000407	0.00200	0.000407	mg/kg	06.25.2020 21:38	U	1
m_p-Xylenes	179601-23-1	< 0.000755	0.00401	0.000755	mg/kg	06.25.2020 21:38	U	1
o-Xylene Xylenea Tetal	95-47-6	<0.000404	0.00200	0.000404	mg/kg	06.25.2020 21:38	U	1
Xylenes, Total Total BTEX	1330-20-7	<0.000404 <0.000404		0.000404 0.000404	mg/kg mg/kg	06.25.2020 21:38 06.25.2020 21:38	U U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1,4-Difluorobenzene		98		70 - 130	%			
4-Bromofluorobenzene		97		70 - 130	%			



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-2 0-0.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-002		Date Collecte	d: 06.24.202	0 10:30	Date I	Received: 06.25.20	20 15:4	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
5150200		•	06226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1370	10.1	0.357	mg/kg	06.26.2020 12:08		1
Analytical Method: TPH by SW8015 Methods	od				Prep M	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 06	5.25.2020 16:	48				
beq itumber. 5150057		Prep seq: 77						
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	06.25.2020 20:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.2	11.5	mg/kg	06.25.2020 20:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.2	11.5	mg/kg	06.25.2020 20:56	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	06.25.2020 20:56	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		95		70 - 135	%			
1-Chlorooctane o-Terphenyl		95 97		70 - 135 70 - 135	% %			
o-Terphenyl					%	Method: 5035A		
o-Terphenyl Analytical Method: BTEX by EPA 8021					% Prep M	Method: 5035A MAB		
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		97 % Moist:	5 25 2020 16	70 - 135	%	Method: 5035A MAB		
o-Terphenyl Analytical Method: BTEX by EPA 8021		97 % Moist: Date Prep: 06		70 - 135	% Prep M			
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB	CAS Number	97 % Moist:		70 - 135	% Prep M		Flag	Dil Factor
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038	CAS	97 % Moist: Date Prep: 06 Prep seq: 77	706233	70 - 135 52	% Prep M Tech:	MAB Analysis	Flag	Dil Factor
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038           Parameter           Benzene           Toluene	CAS Number 71-43-2 108-88-3	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524	706233 MQL 0.00198 0.00198	70 - 135 52 <b>SDL</b> 0.000482 0.000524	% Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59	U U	1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038   Parameter   Benzene   Toluene   Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524 <0.000403	706233 MQL 0.00198 0.00198 0.00198	70 - 135 52 <b>SDL</b> 0.000482 0.000524 0.000403	% Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U	1 1 1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038           Parameter           Benzene           Toluene           Ethylbenzene           m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524 <0.000403 <0.000748	706233 MQL 0.00198 0.00198 0.00198 0.00198 0.00397	70 - 135 52 52 0.000482 0.000524 0.000403 0.000748	% Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U U	1 1 1 1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038           Parameter           Benzene           Toluene           Ethylbenzene           m_P-Xylenes           o-Xylene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524 <0.000524 <0.000403 <0.000748 <0.000400	706233 MQL 0.00198 0.00198 0.00198	70 - 135 52 52 0.000482 0.000524 0.000403 0.000748 0.000400	% Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U U U	1 1 1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038           Parameter           Benzene           Toluene           Ethylbenzene           m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524 <0.000403 <0.000748	706233 MQL 0.00198 0.00198 0.00198 0.00198 0.00397	70 - 135 52 52 0.000482 0.000524 0.000403 0.000748	% Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U U	1 1 1 1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038          Parameter         Benzene       Toluene         Ethylbenzene       m_p-Xylenes         o-Xylene       Xylenes, Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000403 <0.000748 <0.000400 <0.000400	706233 MQL 0.00198 0.00198 0.00198 0.00198 0.00397	70 - 135 52 52 52 0.000482 0.000524 0.000403 0.000748 0.000400 0.000400	% Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U U U U U U	1 1 1 1
o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038           Parameter           Benzene           Toluene           Ethylbenzene           m_p-Xylenes           o-Xylene           Xylenes, Total           Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	97 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000482 <0.000524 <0.000403 <0.000748 <0.000400 <0.000400 <0.000400	706233 MQL 0.00198 0.00198 0.00198 0.00198 0.00397	70 - 135 52 52 52 0.000482 0.000524 0.000524 0.000403 0.000748 0.000400 0.000400 0.000400	% Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59 06.25.2020 21:59	U U U U U U U U	1 1 1 1



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-3 0-0.5'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-003		Date Collecte	ed: 06.24.202	20 10:45	Date I	Received: 06.25.202	20 15:4	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	:41				
		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	38.9	9.92	0.351	mg/kg	06.26.2020 12:16		1
Analytical Method: TPH by SW8015 Mo	d				Prep I	Method: 8015		
Analyst: CAC		% Moist:			Tech:			
Seq Number: 3130037		Date Prep: 06	5.25.2020 16:	48				
Seq Humber. S150057		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	06.25.2020 21:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.25.2020 21:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.25.2020 21:17	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.25.2020 21:17	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1-Chlorooctane o-Terphenyl		96 102		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Pren	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130038		Date Prep: 06	5 25 2020 16 <sup>.</sup>	-52	reen.			
Seq Humber. 5150050			706233					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000480	0.00198	0.000480	mg/kg	06.25.2020 22:20	U	1
Toluene	108-88-3	< 0.000521	0.00198	0.000521	mg/kg	06.25.2020 22:20	U	1
Ethylbenzene	100-41-4	< 0.000401	0.00198	0.000401	mg/kg	06.25.2020 22:20	U	1
m_p-Xylenes o-Xylene	179601-23-1 95-47-6	<0.000745 <0.000398	0.00395 0.00198	0.000745 0.000398	mg/kg mg/kg	06.25.2020 22:20 06.25.2020 22:20	U U	1 1
Xylenes, Total	1330-20-7	< 0.000398	0.00170	0.000398	mg/kg	06.25.2020 22:20	U	1
Total BTEX	•	<0.000398		0.000398	mg/kg	06.25.2020 22:20	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1,4-Difluorobenzene		102		70 - 130	%			
4-Bromofluorobenzene		105		70 - 130	%			
					, .			



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-3 1'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-004		Date Collecte	ed: 06.24.202	20 10:48	Date I	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:			
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
5150200		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	24.5	9.90	0.350	mg/kg	06.26.2020 12:23		1
Analytical Method: TPH by SW8015 Mc	d				Prep M	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
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.25.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.25.2020 21:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.0	11.5	mg/kg	06.25.2020 21:37	U	1
Total TPH	PHC635	<11.5		11.5	mg/kg	06.25.2020 21:37	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane o-Terphenyl		101 104		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Prep M	Method: 5035A		
Analyst: MAB		% Moist:			Tech:			
Seq Number: 3130038		Date Prep: 06	5.25.2020 16:	:52				
Beq Maniber. 5150050		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000481	0.00198	0.000481	mg/kg	06.25.2020 22:42	U	1
Toluene	108-88-3	< 0.000522	0.00198	0.000522	mg/kg	06.25.2020 22:42	U	1
Ethylbenzene	100-41-4	< 0.000402	0.00198	0.000402	mg/kg	06.25.2020 22:42	U	1
m_p-Xylenes o-Xylene	179601-23-1 95-47-6	<0.000746 <0.000399	0.00396 0.00198	0.000746 0.000399	mg/kg mg/kg	06.25.2020 22:42 06.25.2020 22:42	U U	1
Xylenes, Total	1330-20-7	< 0.000399	0.00170	0.000399	mg/kg	06.25.2020 22:42	U	1
Total BTEX	·	< 0.000399		0.000399	mg/kg	06.25.2020 22:42	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
-		% Recovery 101		<b>Limits</b> 70 - 130		Analysis Dat	e	Flag
Surrogate 1,4-Difluorobenzene 4-Bromofluorobenzene		•			Units % %	Analysis Dat	e	Flag



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-3 2'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-005		Date Collecte	ed: 06.24.202	20 10:52	Date I	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	y EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	:41				
		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	232	9.88	0.350	mg/kg	06.26.2020 12:31		1
Analytical Method: TPH by SW8015 M	Iod				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
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	49.9	13.9	mg/kg	06.25.2020 21:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.9	11.4	mg/kg	06.25.2020 21:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.9	11.4	mg/kg	06.25.2020 21:58	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.25.2020 21:58	U	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		93		70 - 135	%	Analysis Dat	e	Flag
-						Analysis Dat	e	Flag
1-Chlorooctane	1	93		70 - 135	% %	Analysis Dat Method: 5035A	e	Flag
1-Chlorooctane o-Terphenyl	1	93		70 - 135	% %	Method: 5035A	e	Flag
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802	1	93 116	5.25.2020 16:	70 - 135 70 - 135	% % Prep I	Method: 5035A	e	Flag
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB	1	93 116 % Moist:		70 - 135 70 - 135	% % Prep I	Method: 5035A	e	Flag
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB	l CAS Number	93 116 % Moist: Date Prep: 06		70 - 135 70 - 135	% % Prep I	Method: 5035A	e Flag	Flag Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene	CAS Number 71-43-2	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484	706233 MQL 0.00199	70 - 135 70 - 135 .52 <b>SDL</b> 0.000484	% % Prep I Tech: <b>Units</b> mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03	Flag	
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	CAS Number 71-43-2 108-88-3	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526	706233 MQL 0.00199 0.00199	70 - 135 70 - 135 .52 .52 .52 .52 .0000484 0.000526	% % Prep M Tech: Units mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03	Flag U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405	706233 MQL 0.00199 0.00199 0.00199	70 - 135 70 - 135 52 <b>SDL</b> 0.000484 0.000526 0.000405	% % Prep M Tech: Units mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	Flag U U U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405 <0.000751	706233 MQL 0.00199 0.00199 0.00199 0.00398	70 - 135 70 - 135 552 <b>SDL</b> 0.000484 0.000526 0.000405 0.000751	% % Prep I Tech: Units mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	Flag U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	CAS Number 71-43-2 108-88-3 100-41-4	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405	706233 MQL 0.00199 0.00199 0.00199	70 - 135 70 - 135 52 <b>SDL</b> 0.000484 0.000526 0.000405	% % Prep M Tech: Units mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	Flag U U U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405 <0.000751 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00398	70 - 135 70 - 135 52 <b>SDL</b> 0.000484 0.000526 0.000405 0.000401	% % Prep I Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	Flag U U U U U U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405 <0.000405 <0.000401 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00398	70 - 135 70 - 135 552 <b>SDL</b> 0.000484 0.000526 0.000405 0.000751 0.000401 0.000401	% % Prep I Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	<b>Flag</b> U U U U U U U U U	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405 <0.000405 <0.000401 <0.000401 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00398	70 - 135 70 - 135 52 <b>SDL</b> 0.000484 0.000526 0.000405 0.000405 0.000401 0.000401 0.000401	% % Prep I Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	<b>Flag</b> U U U U U U U U U	<b>Dil Factor</b> 1 1 1 1 1 1 1 1
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 802 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total Total BTEX	CAS Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	93 116 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000484 <0.000526 <0.000405 <0.000405 <0.000401 <0.000401 <0.000401 <0.000401	706233 MQL 0.00199 0.00199 0.00199 0.00398	70 - 135 70 - 135 70 - 135 52 <b>SDL</b> 0.000484 0.000526 0.000405 0.000405 0.000401 0.000401 0.000401 <b>Limits</b>	% % Prep N Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03 06.25.2020 23:03	<b>Flag</b> U U U U U U U U U	<b>Dil Factor</b> 1 1 1 1 1 1 1 1



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-3 2.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-006		Date Collecte	ed: 06.24.202	0 10:56	Date I	Received: 06.25.202	20 15:4	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
5130200		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1530	9.98	0.353	mg/kg	06.26.2020 12:53		1
Analytical Method: TPH by SW8015 Mc	od				Prep N	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
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.0	13.9	mg/kg	06.25.2020 22:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.5	50.0	11.5	mg/kg	06.25.2020 22:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	50.0	11.4	mg/kg	06.25.2020 22:18	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.25.2020 22:18	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1-Chlorooctane		89		70 - 135	%			
				50 105				
o-Terphenyl		91		70 - 135	%			
o-Terphenyl Analytical Method: BTEX by EPA 8021		91		70 - 135		Method: 5035A		
Analytical Method: BTEX by EPA 8021		91 % Moist:		70 - 135		Method: 5035A MAB		
Analytical Method: BTEX by EPA 8021 Analyst: MAB		% Moist:	5.25.2020 16:		Prep N			
Analytical Method: BTEX by EPA 8021		% Moist: Date Prep: 06	5.25.2020 16: 706233		Prep N			
Analytical Method: BTEX by EPA 8021 Analyst: MAB	CAS Number	% Moist: Date Prep: 06			Prep N		Flag	Dil Factor
Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene	<b>Number</b> 71-43-2	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486	706233 MQL 0.00200	52 SDL 0.000486	Prep M Tech:	MAB Analysis Date 06.25.2020 23:25	U	1
Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene	Number           71-43-2           108-88-3	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529	706233 MQL 0.00200 0.00200	52 SDL 0.000486 0.000529	Prep M Tech: Units mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25	U U U	1
Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407	706233 MQL 0.00200 0.00200 0.00200	52 <b>SDL</b> 0.000486 0.000529 0.000407	Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U	1 1 1
Analytical Method: BTEX by EPA 8021 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	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	52 <b>SDL</b> 0.000486 0.000529 0.000407 0.000755	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U U	1 1 1 1
Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407	706233 MQL 0.00200 0.00200 0.00200	52 <b>SDL</b> 0.000486 0.000529 0.000407	Prep M Tech: Units mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U	1 1 1
Analytical Method: BTEX by EPA 8021 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	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	52 <b>SDL</b> 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 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U U U	1 1 1 1
Analytical Method: BTEX by EPA 8021 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	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	52 <b>SDL</b> 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404	Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U U U U U	1 1 1 1
Analytical Method: BTEX by EPA 8021 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	% Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	52 <b>SDL</b> 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 mg/kg mg/kg	MAB Analysis Date 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25 06.25.2020 23:25	U U U U U U U U	1 1 1 1



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-4 0-0.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-007		Date Collecte	d: 06.24.202	0 11:00	Date I	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
304 Transert 9130200		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	57.2	9.96	0.353	mg/kg	06.26.2020 13:08		1
Analytical Method: TPH by SW8015 Mo	od				Prep N	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 06	5.25.2020 16:	48		0.10		
Seq Pumber. 5150057		Prep seq: 77						
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	06.25.2020 22:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.25.2020 22:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.25.2020 22:39	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.25.2020 22:39	U	
S		% Recovery		Limits	Units	Analysis Dat	e	Flag
Surrogate		70 Recovery		2		<i>j</i>	-	
1-Chlorooctane o-Terphenyl		87 89		70 - 135 70 - 135	% %		-	
1-Chlorooctane		87		70 - 135	% %	Method: 5035A	-	
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		87		70 - 135	% %		-	
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB		87 89 % Moist:	5.25.2020 16:	70 - 135 70 - 135	% % Prep M	Method: 5035A	-	
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021		87 89 % Moist: Date Prep: 06	5.25.2020 16: 706233	70 - 135 70 - 135	% % Prep M	Method: 5035A	-	
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB	CAS Number	87 89 % Moist: Date Prep: 06		70 - 135 70 - 135	% % Prep M	Method: 5035A	Flag	Dil Factor
1-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038		87 89 % Moist: Date Prep: 06 Prep seq: 77	706233	70 - 135 70 - 135 52	% % Prep M Tech:	Method: 5035A MAB Analysis		Dil Factor
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter	Number           71-43-2           108-88-3	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529	706233 MQL	70 - 135 70 - 135 52 <b>SDL</b>	% % Prep M Tech: Units	Method: 5035A MAB Analysis Date	Flag	
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene	Number 71-43-2 108-88-3 100-41-4	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407	706233 MQL 0.00200 0.00200 0.00200 0.00200	70 - 135 70 - 135 52 52 52 0.000486 0.000529 0.000407	% % Prep M Tech: Units mg/kg mg/kg mg/kg	Method: 5035A MAB MAB 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	Flag U U U	1 1 1
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 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	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	70 - 135 70 - 135 52 52 52 52 0.000486 0.000529 0.000407 0.000755	% % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB MAB 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	Flag U U U U U	1 1 1 1
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 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	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407	706233 MQL 0.00200 0.00200 0.00200 0.00200	70 - 135 70 - 135 52 52 52 0.000486 0.000529 0.000407 0.000755 0.000404	% % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	Flag U U U	1 1 1
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 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	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	70 - 135 70 - 135 52 52 52 52 0.000486 0.000529 0.000407 0.000755	% % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB MAB 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	Flag U U U U U U U	1 1 1 1
I-Chlorooctane o-Terphenyl Analytical Method: BTEX by EPA 8021 Analyst: MAB Seq Number: 3130038 Parameter Benzene Toluene Ethylbenzene m_p-Xylenes o-Xylene Xylenes, Total	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	70 - 135 70 - 135 52 52 52 0.000486 0.000529 0.000407 0.000755 0.000404 0.000404	% % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	<b>Flag</b> U U U U U U U U U U	1 1 1 1
I-Chlorooctane         o-Terphenyl         Analytical Method: BTEX by EPA 8021         Analyst:       MAB         Seq Number:       3130038         Parameter         Benzene         Toluene         Ethylbenzene         m_p-Xylenes         o-Xylene         Xylenes, Total         Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000407 <0.000404 <0.000404 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	70 - 135 70 - 135 52 52 52 52 52 52 52 52 52 52 52 52 52	% % Prep M Tech: Units mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	<b>Flag</b> U U U U U U U U U U	1 1 1 1
1-Chlorooctane         o-Terphenyl         Analytical Method: BTEX by EPA 8021         Analyst:       MAB         Seq Number:       3130038         Parameter         Benzene         Toluene         Ethylbenzene         m_p-Xylenes         o-Xylene         Xylenes, Total         Total BTEX	Number 71-43-2 108-88-3 100-41-4 179601-23-1 95-47-6	87 89 % Moist: Date Prep: 06 Prep seq: 77 <b>Result</b> <0.000486 <0.000529 <0.000407 <0.000755 <0.000404 <0.000404 <0.000404	706233 MQL 0.00200 0.00200 0.00200 0.00200 0.00401	70 - 135 70 - 135 52 52 52 52 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 mg/kg	Method: 5035A MAB Analysis Date 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46 06.25.2020 23:46	<b>Flag</b> U U U U U U U U U U	1 1 1 1



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Lab Sample Id: 665597-008       Date Collected: 06.24.2020 11:05       Date Received: 06.25.2020 15:45         Analysical Method:       Inorganic Anions by EPA 300/300.1       Prep Method:       E300P         Analysic:       MAB       MAB       Not:       Tech:       MAB         Seq Numble:       3130200       Base Prep: 10.23.0200 (8:41)       Tech:       MAB       Prep Method:       Base Prep: 10.23.0200 (8:41)         Parameter       CAS       Result       MQL       SDL       Units       Analysis       Prep Method:       Poil       1         Analytical Method:       TPH by SW8015 Mod       Prep Method:       Rost       MQL       SDL       Units       Analysis       CAC       % Moist:       Prep Method:       8015       Analysis         Analytical Method:       TPH by SW8015 Mod       Prep method:       8015       Prep Method:       8016       Prep Method:       8014       mgkg       06.25.2002.02.99<	Sample Id: S-4 1'		Matrix:	Soil		Samp	le Depth:		
Analyst:       MAB       % Moist:       Tech:       MAB         Seq Number:       3130200       CAS       Date Prep: 06.25.2020 08.41       Prep seq:       7706226         Parameter       CAS       Result       MQL       SDL       Units       Analysis       Flag       PI Factor         Chloride       16887.00-6       17.6       9.98       0.333       mgkg       06.26.2020 13:16       1         Analystic       CAC       Sortione       Tech:       CAC       Sortione	Lab Sample Id: 665597-008		Date Collecte	ed: 06.24.202	20 11:05	Date I	Received: 06.25.20	20 15:	45
Analyst:       MAB       % Moist:       Tech:       MAB         Seq Number:       3130200       CAS       Date Prep: 06.25.2020 08.41       Prep seq:       7706226         Parameter       CAS       Result       MQL       SDL       Units       Analysis       Flag       PI Factor         Chloride       16887.00-6       17.6       9.98       0.333       mgkg       06.26.2020 13:16       1         Analystic       CAC       Sortione       Tech:       CAC       Sortione	Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Seq. Number:       3130200       Date Prep:       0:26:2020 08:41         Prepser:       7706226         Parameter       CAS Number       Result       MQL       SDL       Units       Ambyte Date Prep       Prep       Prep       Pres       <			% Moist:			-			
Prep seg:         7706226           Parameter         CAS Number         Result         MQL         SDL         Units         Analysis Date         Fig         DI Factor Date           Chloride         16887.00.6         17.6         9.98         0.353         mg/kg         0626.2020 13:16         1           Analytical Method:         TPH by SW8015 Mod Analyst:         CAC         % Moist:         rech:         CAC           Seq Number:         3130037         Date Prep: 06.25.2020 16:48         rech:         CAC           Gasdine Range Hydrocarbons (GRO)         PH6010         <13.8	•		Date Prep: 06	5.26.2020 08:	:41				
Parameter         CAS Number         Result         MQL         SDL         Units         Analysis Date         Plag         Dil Factor           Chloride         16887-00-6         17.6         9.98         0.353         mg/kg         06.26.020 13:16         1           Analytical Method: TPH by SW8015 Mod          Prep Method:         8015         Tech:         CAC           Seq Number:         3130037         Date Prep: 06.25.020 16:48         Tech:         CAC         Seq Number         Analysis         CAC         Simber         Analysis         CAC         Solitic         Analysis         CAC         Solitic Range Hydrocarbons (GRO)         PHC610         <13.8	200100000000000								
Analytical Method: TPH by SW8015 Mod       Prep Method: 8015         Analyse:       CAC         Seq Number:       3130037         Date Prep: 06.25.2020 16:48         Prep seq:       7706231         Parameter       Number         Moor Of Range Hydrocarbons (GRO)       PHC610       <13.8	Parameter				SDL	Units	•	Flag	Dil Factor
Analysi:       CAC       % Moist:       Tech:       CAC         Seq Number:       3130037       Date Prep: $06.25.2020 16.48$ Date Prep: $06.25.2020 16.48$ Parameter       CM       Kesult       MQL       SDL       Units       Analysis       P rep       P rep         Gasoline Range Hydrocarbons (GRO)       PHC010       <13.8	Chloride	16887-00-6	17.6	9.98	0.353	mg/kg	06.26.2020 13:16		1
Surrogate         % Resourt         Limits         Analysis Mays         Flag         Dif Factor           Surrogate         % Resourt         49.8         13.8         49.8         13.8         mgkg         06.25.2020 22:59         U         1           Motor Oll Range Hydrocarbons (GRO)         PHC610         <13.8	Analytical Method: TPH by SW8015 Mc	od				Prep I	Method: 8015		
Prep ser         7706231           Parameter         CAS Number         Result         MQL         SDL         Units         Analysis Date         Flag         Dil Factor           Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oll Range Hydrocarbons (MRO)         PHC610         <13.8	Analyst: CAC		% Moist:			Tech:	CAC		
Prep set:         7706231           Parameter         CAS Number         Result         MQL         SDL         Units         Analysis Date         Feag         Pil Factor           Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Moor Oil Range Hydrocarbons (MRO) Total TPH         PHC 610         <13.8	Seq Number: 3130037		Date Prep: 06	5.25.2020 16:	:48				
Parameter         CAS Number         Result         MQL         SDL         Units         Analysis Date         Flag         Pil Factor           Gasoline Range Hydrocarbons (GRO) Diesel Range Hydrocarbons (MRO)         PH C610         <13.8									
Diesel Range Organics (DRO) Motor Oil Range Hydnocarbons (MRO)       C10C28DRO PHCG2835       <11.4       49.8       11.4       mg/kg       06.25.2020 22:59       U       1         Total TPH       PHCG35       <11.4	Parameter				SDL	Units	•	Flag	Dil Factor
Motor Oil Range Hydrocarbons (MRO) Total TPH         PHCG2835 PHCG35         <11.4 49.8 11.4 mg/kg mg/kg         06.25.2020 22:59 06.25.2020 22:59         U         1           Surrogate         % Recovery         Limits         Units         Analysis Date         Flag           1-Chlorooctane o-Terphenyl         87         70 - 135         %          Flag         Flag           Analytical Method: BTEX by EPA 8021         87         70 - 135         %         Frep Method: 5035A         Flag           Analysi:         MAB         % Moist:         Tech:         MAB         MAB         Seq Number: 3130038         Date Prep: 06.25.2020 16:52         Frep seq: 7706233         Flag         Dil Factor           Benzene         71-43-2         <0.000480	Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg		U	1
Total TPH         PHC635         <11.4         11.4         mg/kg         06.25.2020 22:59         U           Surrogate         % Recovery         Limits         Units         Analysis Date         Flag           1-Chlorooctane         87         70 - 135         %         * </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Surrogate% RecoveryLimitsUnitsAnalysis DateFlag1-Chlorooctane o-Terphenyl87 9070 - 135%9070 - 135%Analytical Method: BTEX by EPA 8021 $87$ 9070 - 135%Analyst:MAB 90909070 - 135Analyst:MAB 90% Moist:Tech:MABSeq Number:31300389970 - 135Prep seq:70 - 13570 - 135%9Prep seq:70 - 135777Prep seq:70 - 135777Prep seq:70 - 135777Benzene71 - 43 - 2 100 - 41 - 4 $0.00198$ 0.00048mg/kg06.26 2020 00:07U1100 - 41 - 4 0.000410.001980.0001980.000745mg/kg06.26 2020 00:07U1n_p-Xylenes179601 - 23 - 1 0.0007450.0003950.000745mg/kg06.26 2020 00:07U1n_p-Xylenes, Total Total BTEX130 - 20 - 7 0.0003980.000398mg/kg06.26 2020 00:07U11,4-Difluorobenzene10170 - 130%10170 - 130%				49.8					1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	iotai irn	rnc033	<11.4		11.4	mg/kg	00.23.2020 22.39	U	
o-Terphenyl       90       70 - 135       %         Analytical Method: BTEX by EPA 8021       Prep Method: 5035A         Analyst:       MAB       % Moist:       Tech:       MAB         Seq Number:       3130038       Date Prep: 06.25.2020 16:52       Prep seq:       770-135         Parameter       CAS Number       Result       MQL       SDL       Units       Analysis Date       Flag       Dil Factor         Benzene       71-43-2       <0.000480	Surrogate		% Recovery		Limits	Units	Analysis Date	е	Flag
Analyst:       MAB       % Moist:       Tech:       MAB         Seq Number:       3130038       Date Prep:       06.25.2020 16:52         Prep seq:       7706233         Parameter       CAS Number       Result       MQL       SDL       Units       Analysis Date       Flag       Dil Factor         Benzene       71-43-2       <0.000480									
Seq Number:       3130038       Date Prep:       06.25.2020       16:52         Perps eq:       7706233       Preps eq:       7706233         Parameter       CAS Number       Result       MQL       SDL       Units       Analysis Date       Flag       Dil Factor         Benzene       71-43-2       <0.000480	Analytical Method: BTEX by EPA 8021					Prep I	Method: 5035A		
Seq Number:       3130038       Date Prep:       06.25.2020 16:52         Perps eq:       7706233         Parameter       CAS Number       Result       MQL       SDL       Units       Analysis Date       Flag       Diffector         Benzene       71-43-2       <0.000480	Analyst: MAB		% Moist:			Tech:	MAB		
Prep seq: 7706233         Parameter       CAS Number       Result       MQL       SDL       Units       Analysis Date       Flag       Dil Factor         Benzene       71-43-2       <0.000480	-		Date Prep: 06	5.25.2020 16:	:52				
Parameter         Number         Result         MQL         SDL         Units         Date         Flag           Benzene         71-43-2         <0.000480			Prep seq: 77	706233					
Toluene       108-88-3       <0.000521       0.00198       0.000521       mg/kg       06.26.2020 00:07       U       1         Ethylbenzene       100-41-4       <0.000401	Parameter		Result	MQL	SDL	Units	•	Flag	Dil Factor
Ethylbenzene       100-41-4       <0.000401			< 0.000480			mg/kg	06.26.2020 00:07		1
m_p-Xylenes       179601-23-1       <0.000745									
o-Xylene       95-47-6       <0.000398									
Xylenes, Total       1330-20-7       <0.000398       0.000398       mg/kg       06.26.2020 00:07       U         Total BTEX       Voltage       Karrogate       Karrogate <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Surrogate% RecoveryLimitsUnitsAnalysis DateFlag1,4-Difluorobenzene10170 - 130 %	Xylenes, Total	1330-20-7	< 0.000398		0.000398	mg/kg	06.26.2020 00:07	U	
1,4-Difluorobenzene 101 70 - 130 %	Total BTEX		< 0.000398		0.000398	mg/kg	06.26.2020 00:07	U	
	Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
4-Bromofluorobenzene 105 70 - 130 %	1,4-Difluorobenzene		101		70 - 130	%			
	4-Bromofluorobenzene		105		70 - 130	%			



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-4 2'		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-009		Date Collecte	d: 06.24.202	20 11:08	Date 1	Received: 06.25.202	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep I	Method: E300P		
Analyst: MAB		% Moist:			Tech:			
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
Seq (tumber: 5150200		•	06226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	19.6	10.0	0.355	mg/kg	06.26.2020 13:23		1
Analytical Method: TPH by SW8015 Mo	d				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
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.25.2020 23:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.25.2020 23:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.4	49.8	11.4	mg/kg	06.25.2020 23:20	U	1
Total TPH	PHC635	<11.4		11.4	mg/kg	06.25.2020 23:20	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
1-Chlorooctane		87		70 - 135	%			
o-Terphenyl		91		70 - 135	%			
Analytical Method: BTEX by EPA 8021					Prep I	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130038		Date Prep: 06	5.25.2020 16:	:52				
		Prep seq: 77	/06233					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000482	0.00198	0.000482	mg/kg	06.26.2020 00:29	U	1
Toluene	108-88-3	< 0.000524	0.00198	0.000524	mg/kg	06.26.2020 00:29	U	1
Ethylbenzene	100-41-4	<0.000403	0.00198	0.000403	mg/kg	06.26.2020 00:29	U	1
m_p-Xylenes o-Xylene	179601-23-1 95-47-6	<0.000748 <0.000400	0.00397 0.00198	0.000748 0.000400	mg/kg mg/kg	06.26.2020 00:29 06.26.2020 00:29	U U	1
Xylenes, Total	1330-20-7	< 0.000400	0.00170	0.000400	mg/kg	06.26.2020 00:29	U	1
Total BTEX		<0.000400		0.000400	mg/kg	06.26.2020 00:29	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	e	Flag
		/o necovery		Linnus	e mus			-
1,4-Difluorobenzene		101		70 - 130	%			_
1,4-Difluorobenzene 4-Bromofluorobenzene		·						-



#### Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: S-4 2.5' R		Matrix:	Soil		Samp	le Depth:		
Lab Sample Id: 665597-010		Date Collecte	ed: 06.24.202	20 11:11	Date I	Received: 06.25.20	20 15:	45
Analytical Method: Inorganic Anions by	EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	:41				
		Prep seq: 77						
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	67.3	9.94	0.352	mg/kg	06.26.2020 13:30		1
Analytical Method: TPH by SW8015 Mo	d				Prep M	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
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.8	49.8	13.8	mg/kg	06.25.2020 23:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<11.4	49.8	11.4	mg/kg	06.25.2020 23:40	U	1
Motor Oil Range Hydrocarbons (MRO) Total TPH	PHCG2835 PHC635	<11.4 <11.4	49.8	11.4 11.4	mg/kg mg/kg	06.25.2020 23:40 06.25.2020 23:40	U U	1
	1110055	<11.4		11.4	mg/kg	00.25.2020 25.40	U	
Surrogate		% Recovery		Limits	Units	Analysis Date	е	Flag
l-Chlorooctane o-Terphenyl		86 90		70 - 135 70 - 135	% %			
Analytical Method: BTEX by EPA 8021					Prep M	Method: 5035A		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130038		Date Prep: 06	5.25.2020 16:	:52				
		•	706233					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	< 0.000483	0.00199	0.000483	mg/kg	06.26.2020 00:50	U	1
Toluene	108-88-3	< 0.000525	0.00199	0.000525	mg/kg	06.26.2020 00:50	U	1
Ethylbenzene m. n. Yulanos	100-41-4 179601-23-1	<0.000404 <0.000749	0.00199 0.00398	0.000404 0.000749	mg/kg	06.26.2020 00:50 06.26.2020 00:50	U U	1
m_p-Xylenes	95-47-6	<0.000749	0.00398	0.000749	mg/kg mg/kg	06.26.2020 00:50	U	1
0-Aviene					mg/kg			•
o-Xylene Xylenes, Total	1330-20-7	< 0.000401		0.000401	mg/kg	06.26.2020 00:50	U	
-	1330-20-7	<0.000401 <0.000401		0.000401	mg/kg	06.26.2020 00:50	U U	
Xylenes, Total	1330-20-7						U	Flag
Xylenes, Total Total BTEX	1330-20-7	<0.000401		0.000401	mg/kg	06.26.2020 00:50	U	Flag
Xylenes, Total Total BTEX Surrogate	1330-20-7	<0.000401 %		0.000401 Limits	mg/kg Units	06.26.2020 00:50	U	Flag



## Certificate of Analytical Results 665597

Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Sample Id: 7706226-1-BLK		Matrix:	Solid		Sampl	le Depth:		
Lab Sample Id: 7706226-1-BLK		Date Collecte	d:		Date H	Received:		
Analytical Method: Inorganic A	nions by EPA 300/300.1				Prep M	Method: E300P		
Analyst: MAB		% Moist:			Tech:	MAB		
Seq Number: 3130200		Date Prep: 06	5.26.2020 08:	41				
		Prep seq: 77	06226					
Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	< 0.354	10.0	0.354	mg/kg	06.26.2020 13:01	U	1
Sample Id: 7706231-1-BLK		Matrix:	Solid		Samp	le Depth:		
Lab Sample Id: 7706231-1-BLK		Date Collecte	d:		Date I	Received:		
Analytical Method: TPH by SW	/8015 Mod				Prep N	Method: 8015		
Analyst: CAC		% Moist:			Tech:	CAC		
Seq Number: 3130037		Date Prep: 06	.25.2020 16:	48				
		Prep seq: 77	06231					
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 (MI	RO) PHCG2835	<11.5	50.0	11.5	mg/kg	06.25.2020 18:32	U	1
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag
1-Chlorooctane		83		70 - 135	%			
o-Terphenyl		71		70 - 135	%			



## Certificate of Analytical Results 665597

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond

Parameter	CAS	Result	MOI	SDL	A	nalysis	Dil Factor
		Prep seq: 77	06233				
Seq Number: 3130038		Date Prep: 06	5.25.2020 16:52				
Analyst: MAB		% Moist:			Tech:	MAB	
Analytical Method: BTEX by EPA 8021					Prep Method:	5035A	
Lab Sample Id: 7706233-1-BLK		Date Collecte	d:		Date Receive	d:	
Sample Id: <b>7706233-1-BLK</b>		Matrix:	Solid		Sample Depth	1:	

Parameter	Number	Result	MQL	SDL	Units	Date	Flag		
Benzene	71-43-2	< 0.000486	0.00200	0.000486	mg/kg	06.25.2020 19:17	U	1	
Toluene	108-88-3	< 0.000528	0.00200	0.000528	mg/kg	06.25.2020 19:17	U	1	
Ethylbenzene	100-41-4	< 0.000406	0.00200	0.000406	mg/kg	06.25.2020 19:17	U	1	
m_p-Xylenes	179601-23-1	< 0.000754	0.00400	0.000754	mg/kg	06.25.2020 19:17	U	1	
o-Xylene	95-47-6	< 0.000403	0.00200	0.000403	mg/kg	06.25.2020 19:17	U	1	
Surrogate		% Recovery		Limits	Units	Analysis Dat	e	Flag	

1,4-Difluorobenzene	98	70 - 130 %
4-Bromofluorobenzene	95	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.

<b>BRL</b> Below Reporting Limit.	ND Not Detected.			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample Dete	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory C	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sample	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered for	for this compound.			

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

# Form 2 - Surrogate Recoveries

Project Name: Trionyx Frac Pond

Work Order Lab Batch #: 3		97 Sample: 7706233-1-BLK / E	3LK Batc		<b>D:</b> 700794.33	6.01	
	ng/kg	Date Analyzed: 06.25.2020 19:17		RROGATE R		STUDY	
		X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobenz	zene		0.0295	0.0300	98	70-130	
4-Bromofluorobe	enzene		0.0285	0.0300	95	70-130	
Lab Batch #: 3	130038	Sample: 7706233-1-BKS / E	BKS Batc	h: 1 Matrix	:Solid		
Units: n	ng/kg	Date Analyzed: 06.25.2020 19:39	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.4 Difluershare		Analytes	0.0205	0.0200		70-130	
1,4-Difluorobenz 4-Bromofluorobe			0.0295	0.0300	98	70-130	
						70 150	
Lab Batch #: 3		Sample: 7706233-1-BSD / E		h: 1 Matrix RROGATE R		TUDV	
Units: n	ng/kg	Date Analyzed: 06.25.2020 20:00		1			
	BTE	X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenz	ana	Analytes	0.0297	0.0300	99	70-130	
4-Bromofluorobe			0.0297	0.0300	106	70-130	
Lab Batch #: 3	120028	Secondary 665507 001 S / MS					
	ng/kg	Sample: 665597-001 S / MS Date Analyzed: 06.25.2020 20:22		RROGATE R		STUDY	
		X by EPA 8021	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1,4-Difluorobenz			0.0295	0.0300	98	70-130	
4-Bromofluorobe	enzene		0.0336	0.0300	112	70-130	
Lab Batch #: 3	130038	Sample: 665597-001 SD / M	ISD Bate	h: 1 Matrix	:Soil		
U <b>nits:</b> n	ng/kg	Date Analyzed: 06.25.2020 20:43	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by EPA 8021 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		-					
1,4-Difluorobenz	zene		0.0301	0.0300	100	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.



# Form 2 - Surrogate Recoveries

Project Name: Trionyx Frac Pond

Work Orders : 6655		<b>Project ID:</b> 700794.336.01								
Lab Batch #: 3130037	Sample: 7706231-1-BLK / I									
Units: mg/kg	Date Analyzed: 06.25.2020 18:32	SU.	RROGATE RE	COVERY	STUDY					
TPH	by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		82.6	100	83	70-135					
o-Terphenyl		35.4 50.0 71 70-135								
Lab Batch #: 3130037	Sample: 7706231-1-BKS / H	BKS Batcl	h: 1 Matrix	Solid						
Units: mg/kg	Date Analyzed: 06.25.2020 18:53	SU	RROGATE RE	ECOVERY	STUDY					
ТРН І	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		109	100	109	70-135					
o-Terphenyl		52.8	50.0	106	70-135					
Lab Batch #: 3130037	Sample: 7706231-1-BSD / H	BSD Batcl	h: 1 Matrix	Solid						
Units:mg/kgDate Analyzed: 06.25.2020 19:14SURROGATE RECOVERY STUDY										
		Amount	True							
TPH	by SW8015 Mod	Found [A]	Amount [B]	Recovery %R	Control Limits %R	Flags				
	Analytes			[D]						
1-Chlorooctane		119	100	119	70-135					
o-Terphenyl		58.1	50.0	116	70-135					
Lab Batch #: 3130037	Sample: 665597-001 S / MS									
Units: mg/kg	Date Analyzed: 06.25.2020 20:15	SU	RROGATE RE	ECOVERY	STUDY					
ТРНІ	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		110	99.8	110	70-135					
o-Terphenyl		52.4	49.9	105	70-135					
Lab Batch #: 3130037	Sample: 665597-001 SD / N	ASD Batc	h: 1 Matrix	Soil						
Units: mg/kg	<b>Date Analyzed:</b> 06.25.2020 20:36		RROGATE RE		STUDY					
	by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooctane		106	99.5	107	70-135					
o-Terphenyl		51.7	49.8	107	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 / B

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



# **BS / BSD Recoveries**

#### **Project Name:** Trionyx Frac Pond

Work Order #: 665597							Pro	ject ID:	700794.336	5.01	
Analyst: MAB	D	ate Prepar	ed: 06.25.20	20			Date A	nalyzed:	06.25.2020		
Lab Batch ID: 3130038 Sample: 7706233-	1-BKS	Batcl	<b>h #:</b> 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
BTEX by EPA 8021	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
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	1	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	ate Prepar	ed: 06.26.20	20	•		Date A	nalyzed:	06.26.2020	-	-
Lab Batch ID: 3130200 Sample: 7706226	1-BKS	Batcl	<b>n #:</b> 1					Matrix:	Solid		
Units: mg/kg		BLAN	K /BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.354	250	254	102	250	262	105	3	90-110	20	+
	(0.55 F	200	231	102	230	202	105	5	20110		

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



# **BS / BSD Recoveries**

#### **Project Name:** Trionyx Frac Pond

Work Ord	<b>er #:</b> 665597					<b>Project ID:</b> 700794.336.01							
Analyst:	CAC		D	ate Prepar	ed: 06.25.202	20		Date Analyzed: 06.25.2020					
Lab Batch I	<b>D:</b> 3130037	Sample: 7706231-1-	BKS	Batc	<b>h #:</b> 1	Matrix: Solid							
Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	Sample Result Added Spike Spike Added Spike Dup. RPD Limits Limit						Control Limits %RPD	Flag					
Ana	lytes	[B] [C] [D] [E] Result [F] [G]											
Gasoline	e Range Hydrocarbons (GRO)		<13.9	1000	743	74	1000	835	84	12	70-135	35	
Diesel F	Range Organics (DRO)		<11.5	1000	889	89	1000	985	99	10	70-135	35	

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





# Form 3 - MS / MSD Recoveries

#### **Project Name: Trionyx Frac Pond**

.

Work Order # :	665597			<b>Project ID:</b> 700794.336.01
Lab Batch ID:	3130038	QC- Sample ID: 665597-001 S	<b>Batch #:</b> 1	Matrix: Soil
Date Analyzed:	06.25.2020	<b>Date Prepared:</b> 06.25.2020	Analyst: MAB	
<b>Reporting Units:</b>	mg/kg			

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

	BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene		<0.000484	0.0996	0.115	115	0.0998	0.120	120	4	70-130	35	
Toluene		< 0.000526	0.0996	0.112	112	0.0998	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	98	0.200	0.227	114	15	70-135	35	
o-Xylene		<0.000401	0.0996	0.0972	98	0.0998	0.110	110	12	71-133	35	
Lab Batch ID:	3130200	C- Sample ID:	665597	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	06.26.2020 <b>E</b>	Date Prepared:	06.26.2	020	An	alyst: N	MAB					
<b>Reporting Units:</b>	mg/kg											

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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

 $\begin{array}{l} Matrix \ Spike \ Percent \ Recovery \quad [D] = 100^{*}(C\text{-}A) \ / \ B \\ Relative \ Percent \ Difference \quad RPD = 200^{*}|(C\text{-}F) \ / \ (C\text{+}F)| \end{array}$ 

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.

Page 22 of 25





# Form 3 - MS / MSD Recoveries

#### **Project Name: Trionyx Frac Pond**

Work Order # :	665597					Project ID:	700794.336.01
Lab Batch ID:	3130200	QC- Sample ID:	665605-001 S	Batch #:	1	Matrix: Soil	
Date Analyzed:	06.26.2020	Date Prepared:	06.26.2020	Analyst: MA	В		
<b>Reporting Units:</b>	mg/kg						

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorgai	Inorganic Anions by EPA 300/300.1 Analytes		Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
			Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		9.25	200	195	93	200	196	93	1	90-110	20	
Lab Batch ID:	3130037	QC- Sample ID:	665597-	001 S	Ba	tch #:	1 Matrix	<b>x:</b> Soil				
Date Analyzed:	06.25.2020	Date Prepared:	06.25.20	020	An	alyst: (	CAC					
<b>Reporting Units:</b>	mg/kg											

#### MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<13.9	998	1000	100	995	968	97	3	70-135	35	
Diesel Range Organics (DRO)	<11.4	998	1120	112	995	1130	114	1	70-135	35	

 $\begin{array}{l} Matrix \ Spike \ Percent \ Recovery \quad [D] = 100^{*}(C\text{-}A) \ / \ B \\ Relative \ Percent \ Difference \quad RPD = 200^{*}|(C\text{-}F) \ / \ (C\text{+}F)| \end{array}$ 

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.

# Chain of Custody

Tampa, FL (813) 620-2000. Tallahassee FI (850) Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 888-3199, Phoenix, AZ (480) 355-0900

e: Talon LPE Yos W Texas Ave Artecia NM Sealo S75-746-8768 Enail: Trionyx Frac Pond Tum Tod 744.336.01 Enail: Tabor 744.336.00 Temperature Reading: Corrected Temperature Reading: Sampled Samples and Stall not assume any rest barge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to ea			a				
k Order Comments         Brownfields       RRC         Brownfields       RRC         ADaPT       Other:         ADaPT       Other:         None: NO       Cool: Cool         HG: 100       HCL: HC         H3PO4: HP       NaHSO4: NABIS         Na2s203: Na2s3       Zn Acetate+NaOH         NaOH+Ascorbic Aa       Sample Cor         Hg: 1631 / 245.1 / 743       Date	25/20	9	1-1-1		- ( md		
k Order Comments         Brownfields       RRC         Brownfields       RRC         ADaPT       Other:         ADaPT       Other:         None: NO       Cool: Cool         HCL: HC       H2S04: H2         H3PO4: HP       NaHSO4: NABIS         Na2S203: Na2O3       Zn Acetate+NaOH         XaOH+Ascorbic Aa       Sample Cor         Hg: 1631 / 245.1 / 74;       H3	-	1	X //// tony of JK/	20	Mush		an da
k Order Comments         Brownfields       RRC         Brownfields       RRC         ADaPT       Other:         ADaPT       Other:         None: NO       Cool: Cool         Hone: NO       Cool: Cool         H-2S04: H2       H2S04: H2         NaHSO4: NABIS       Na4SO3         Zn Acetate+ NaOH+       NaOH+Ascorbic Ac         NaOH+Ascorbic Ac       Sample Cor         Hg: 1631 / 245.1 / 74;       H2	-	e) Received by: (Simplure)	Date/Time Relinquished by: (Signatur	r: (Signature)	Received by	by: (Signature)	Relinquished b
k Order Comments         Brownfields       RRC         Brownfields       RRC         ADaPT       Other:         ADaPT       Other:         None: NO       Cool: Cool         H2S04: H2       H2S04: H2         H3PO4: H2       NaHSO3         Zn Acetate+ NaOH       NaOH+Ascorbic Ac         NaOH+Ascorbic Ac       Sample Cor         SiO2       Na Sr Ti Sn U V         Hg: 1631 / 245.1 / 74;       H3		ns standard terms and conditions circumstances beyond the control unless previously negotiated.	sses or expenses incurred by the client if such losses are due to mitted to Xenco, but not analyzed. These terms will be enforced	ssume any responsibility for any lo a charge of \$5 for each sample sub	ost of samples and shall not a e applied to each project and	charge of \$85.00 will b	Xenco. A minimum o
Table     Company Name       1 + 2      Market       2 + 2      A datass:	631 / 245.1 / 7470 / 7471		ent company to Xenco, its affiliates and subcontractors 14 accident	ites a valid purchase order from cli	uishment of samples constitu	is document and relind	tice: Signature of this
Tatlen     LPE     Ommenty Name     With Order Comments       1/2 K     W     Te Xa S     A/LPE     Address       1/2 K     W     Te Xa S     A/LPE     Address       1/2 K     W     Te Xa S     A/LPE     Provider Comments       1/2 K     W     Te Xa S     A/LPE     Provider Comments       1/2 K     W     Te Xa S     A/LPE     Provider Comments       1/2 K     Fail     A/LPE     Time Xa A     Fail     A/LPE       1/2 K     Fail     A/LE     Fail     A/LE     Fail     A/LPE       1/2 K     Fail     Maxin     Time Acound     Fail     A/LPE     Provider Comments       1/2 Comments     Fail     Fail     A/LE     Fail     Provider Comments       1/2 Comments     Fail     Fail     A/LE     Provider Comments     Provider Comments       1/2 Comments     Fail     Fail     Fail     Provider Comments     Provider Comments       1/2 Comments     Fail     Fail     Fail     Provider Comments     Provider Comments       1/2 Comments     Fail     Fail     Fail     Provider Comments     Provider Comments       1/2 Comments     Fail     Fail     Fail     Provider Comments     Provider Comments	Sr TI Sn U V Zn	VIO NIK SE AG SIC	As Ba Be Cd Cr Co Cu Ph Mn	LP / SPLP 6010: 8RCRA		d(s) and Metal(s)	Circle Method
Talon     LPL     Omnenty Name     Work Order Comments       Y 0 S     W     T & X a S     A version     Site of Project:       Y 1 - L + L + L + L + L + L + L + L + L + L			As Ba Be B Cd Ca Cr Co Ch Eo	13PPM Texas 11		1	Total 200.7 /
Talon     LPL     Omenny Name     Work Order Comments       Y08     W     T & XaS     A.ve     Address:       STS746     Email Ad Lins     Email Ad Lins     Tim Anound     Reporting Level III       Licary     Frank Advine     Imail Ad Lins     Tim Anound     Reporting Level III       Licary     Frank Advine     Imail Ad Lins     Tim Anound     Reporting Level III       Licary     Frank Advine     Imail Ad Lins     Tim Anound     Reporting Level III       Licary     Frank Advine     Imail Ad Lins     Tim Anound     Reporting Level III       Licary     Frank Advine     Imail Advine     Reporting Level III     Imail II       Lavel II     Interviewed by Advine     None: No     Advine: No       Tor Temp Bank:     (risk)     Imail II reviewed by Advine     None: No       Visc No     No     Concelor Factor:     -0.3     Preservati       Visc No     Material Reading:     -1.4     -1.4     -1.4       No Concelor Factor:     -3.4     -1.4     -1.4					11 , 11	R	-42.0
Talon       LPE       Ommany Name       Work Order Comments         Y0 8       W       Te XaS       A/ve       Address:       Program: USTPET				80.			-42
I of an     L PL     Company Name     Program: USTPS     Prog				50:	11		
Talon     LPE     Company Name     Program: USTPE     Program: USTPE       Y 0 %     W     Te Xa 5     A/Ve     Adress:     Program: USTPE       Y 1 + E x ia     M.M     & Ratio     City, State ZIP:     Program: USTPE       Y 1 + E x ia     M.M     & Ratio     City, State ZIP:     Program: USTPE       Y 1 + E x ia     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + E x ia     A k in f Q     Turn Around     Recording: Level III       Y 2 + 2 x ia     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Due Date:     Na     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia     Na     Program: USTPE     Program: USTPE     Program: USTPE     Program: USTPE       Y 1 + 2 x ia				:00:		is	2-4 0-0
Talon     LPE     Company Name     Work Order Comments       1     Texas     Ave     Adrass:     Program: USTPST [PRP]     Brownfields     Brogen: USTPST [PRP]       1/1     Texas     Final:     Address:     Final:     Address:     Brogen: USTPST [PRP]       1/2     Final:     Address:     Final:     Address:     Brogen: USTPST [PRP]     Brownfields       1/2     Final:     Address:     Final:     Address:     Final:     Address:       1/2     Final:     Address:     Final:     Address:     Brownfields     Brownfields       1/2     Final:     Final:     Address:     Final:     Address:     Brownfields     Brownfields       1/2     Bilverable:     Die     Die     Brownfields     Brownfie				5	1 10	P	
Tallon       Lef:       Company Name:       Work Order Comments         Y 0 S       W       Texas       Ave       Address:       Program: USTPST  PRP       Brogram: USTPST       Preservath       Dre				122:0			-3 2
Talon     LPE     Ompany Name     Work Order Comments       Y 08     W     Te Xas     Aviress     Formany Name       Y 16     Kas     Aviress     Formany Name     Formany Name       Y 16     Kas     Aviress     Formany Name     Formany Name       Y 16     Formany Kas     Email:     Aviress     Formany Name       Y 16     No     Wet Ice:     Yes     No     Perservati       Y 16     Nuk     Temperature     Formany Name     Aviress     None: NO       Y 16     Nuk     Temperature     Sould for Coll     Cool       Y 16     Nuk     Temperature     Sould for Coll     Cool       Y 16     Nuk     Temperature     Sould for Coll     Cool       Y 16     Nuk     Correction Factor:     -0, 2, 3     Parameters     X       Y 16     Nuk     Correction Factor:     -0, 2, 4     Hapd A     Hapd A       Y 16				3:48			-3 1
Image: Second				54:45		S'	0-
a Lon       LPE       Company Name:       Work Order Comments         Y & W       T X & S       A V       Adress:       Program: USTPST    PRP       Program: USTPST    PRP       Brownfields       RRC         Y & Y & STAC       Finality       A diress:       Image: A diress:       Program: USTPST    PRP       Brownfields       RRC         Y & State of Project:       Finality       A diress:       A diress:       Program: USTPST    PRP       Brownfields       RRC         Y & State of Project:       Finality       A diress/direst       Program: USTPST    PRP       Drownfields       RRC         Y & State of Project:       Finality       A diress/direst       Program: USTPST    PRP       Drownfields       RRC         Y & State of Project:       Finality       A direst/direst       Program: USTPST    PRP       Drownfields       RRC         Y = A dia       Ves       No       Wet los:       No       None: NO       Proservati         Y = S No       No       Net los:       Ves       No       Heading:       3.4       H         Y = S No       No       Natity Reading:       3.4       Y       H       No       Heading:       No         Y = S No       Natity Reading:       Sampled       Sample				30		S. K	5-2 0-0
Image: Solution of the solution			VVV		6-24-201	2.5'R	5-1 0-0
Talen       LPE       Company Name:       Work Order Comments         Y 0 & W       Te Kas       Audress:       Program: USTPST	Sample Comments		ont of BT Tot	Depth Grab/ Comp	Date Sampled	dentification	Sample I
Talen       LPE       Ompany Name:       Work Order Comments         Y 0 %       W       Te Xa \$\lambda V_2\$       Address:       Forgram: UST/PST       PRP       Brownfields       Rrc         4r 1 Escia       N/M       & Address:       Image: State ZIP:       Forgram: UST/PST       PRP       Brownfields       Rrc         57.5       746       & Failt       Address:       Image: State ZIP:       Forgram: UST/PST       PRP       Brownfields       Rrc         57.5       746       & Failt       Ad       Lin \$\state ZIP:       Forgram: UST/PST       PRP       Brownfields       Rrc         57.5       746       & Failt       Ad       Lin \$\state ZIP:       Press:       Reporting: Level II       Level III       Devel II       Devel III       Devel III<	VaOH+Ascorbic Acid: SAPC				C Corrected Ten		- oran Ootnailitets.
Talen       LPE       Company Name:       Work Order Comments         Y 0 & W Te Xas       Ave       Address:       Program: UST/PST []PRP       Brownfields       RRC         Ar Hessian       AM       & Xiv       Address:       Program: UST/PST []PRP       Brownfields       RRC         State of Project:       Reporting:Level II       Level III       Delverables:       Email:       Address:       Program: UST/PST       PRP       Brownfields       RRC         State of Project:       Reporting:Level II       Level III       Delverables:       ED       ADaPT       Other:         Ir Addres       Intra traits the day received by 4:30pm       Totats the day received by 4:30pm       Enail:       Address       Address       None: NO         Vest No       Nix (A:       Tot No       Wet Ice:       Yes No       None: NO       Cool: Cool         Vest No       Nix (a:       Tot NoO;       Address       Address       Address       H <sub>2</sub> SO; H <sub>2</sub> Vest No       Nix Correction Factor:       -O, 2       Address       Address       Hasso; Nasso	7n ApotototNaOU: 7n		E2 +	1	N/A	Tes	Total Containors
Talen       LPE       Company Name:       Work Order Comments         Y 0 & W       Te Xa S       Ave       Address:       Program: UST/PST [PRP ] Brownfields [RC         Artecia       NM       & Xue       Address:       Program: UST/PST [PRP ] Brownfields [RC         S 75-746       Email       A d Lin S (A)       Email       A d Lin S (A)       Talon Lpe.com       State of Project:         Triony Erac       Enail       A d Lin S (A)       Talon Lpe.com       Program: UST/PST [PRP ] Brownfields [RC         S 75-746       Email       A d Lin S (A)       Talon Lpe.com       Reporting:Level II [Level III ] PST/UST [DRP       Deliverables: EDD ]       ADaPT ]       Other:         Triony Erac       Fracton Sixclair       TAT starts the day received by 4:30pm       Frest       Cool: Cool       Preservative         Yes       No       Tecelved by 4:30pm       Tot starts the day received by 4:30pm       H; Pocived by 4:	Na.S.O.: NaSO			1	N/A	Yes	Sample Custody
e:       Talon       LPE       Omnon voluments       Work Order Comments         Y0 & W       Texas       Ave       Address:       Program: UST/PST       Prothon: UST/PST       Program: UST/PST	H3PO4: HP			H	No Thermomete		Received Intact:
pany Name:       Talon       LPE       Company Name:       Work Order Comments         ess:       Y 0 % W       Te Xa S       Ave       Address:       Program: UST/PST       <			ri ri	(Yes)	Yes No		SAMPLE REC
Talon       LPE       Company Name:       Work Order Comments         Y08       TeXas       Ave       Address:       Program: UST/PST       Program: UST/PST       Program: UST/PST       PRP       Brownfields       RRC         Artesia       NM       & Xize       City, State ZIP:       Image: Company Name       Program: UST/PST       PRP       Brownfields       RRC         S75-746-8768       Email:       Address:       City, State ZIP:       Image: Company Name       Reporting: Level III       Program: UST/PST       PRP       Brownfields       RRC         Trionyx       Erac       Pond       Turm Around       Image: Company Name       None: NO       Other:       Other:         Toa744.336.01       Image: Code       Pres.       ANALYSIS REQUEST       None: NO       N			de	the lab, if received by 4:30pm			PO #:
Talon       LPE       Company Name:       Work Order Comments         Y08       Te Xas       Ave       Address:       Program: UST/PST       Program: UST/PST       Program: UST/PST       PRP       Brownfields       RRC         Ar tessia       NM       88310       City, State ZIP:       City, State ZIP:       State of Project:       Reporting: Level II       Level III       PST/UST       PRP       Brownfields       RRC         S75-746-8768       Email:       Aod kin S       Talon lpc.com       Reporting: Level III       PST/UST       PRP       Jon 2011       Other:         Trionyx       Frac       Pond       Turn Around       Pres.       ANALYSIS REQUEST       Preservativ         10a       Count f.v       Due Date:       Due Date:       Preservativ       None: NO			5	TAT starts the day received by	Vair	Brandon	Sampler's Name:
Inv Name:       Talon       LPE       Company Name:       Work Order Comments         s:       40%       W       Te XaS       Ave       Address:       Program: UST/PST       Program: UST/PST       Propect:         ate ZIP:       Artecia       NM       & Xite ZIP:       Address:       State of Project:       State of Project:         ate ZIP:       S.75-746-8768       Email:       A d kin S and k					+~	6	Project Location
Inv Name:       Talen       LPE       Company Name:       Work Order Comments         s:       40 %       W       Te Xa S       Ave       Address:       Program: UST/PST [PRP ] Brownfields [RRC         s:       40 %       W       Te Xa S       Ave       Address:       Program: UST/PST [PRP ] Brownfields [RRC         ate ZIP:       Artecia, NM & & XIO       City, State ZIP:       Address:       Program: UST/PST [PRP ] Brownfields [RRC         575-746-8768       Email:       A d cin S (A cin S (A cin N))       Te Alon [pe.com]       Deliverables: EDD []       ADaPT []       Other:         Name:       Trionyx Erac Pond       Turn Around       ANALYSIS BEDUIEST       ANALYSIS BEDUIEST       Tenant	Preservative Codes			Rush	336.01	700794.	Project Number:
Iny Name:       Talen       LPE       Company Name:       Work Order Comments         s:       Y 0 %       Y Te XaS       Ave       Address:       Program: UST/PST □PRP Brownfields □RRC         ate ZIP:       Artes:a       NM       & X10       City, State ZIP:       Program: UST/PST □PRP Brownfields □RRC         S 75 - 746 - 8768       Email:       A d kin S @ talen lpe.com       Program: UST/PST □PRP Brownfields □RRP         Deliverables:       EDD □       ADaPT □       Other:				Turn Around	Frac	Trionyx	Project Name:
Instruction     Mork Order Comments       Instruction     Program: UST/PST	Other:	Deliverables: EDD ADaPT	Italonl	Jade	46-8768	575-7	Phone:
Talon     LPE     Company Name:     Work Order Comments       Y08     Te Xa5     Ave     Address:     Program: UST/PST      PRP     Brownfields     RRC	1989	Reporting:Level II Level III PST		10 City, State ZIP:	a, NN 882	Artes	City, State ZIP:
Talen         LPE         Company Name:         Work Order Comments           Program: UST/PST         Dep         Beamstails         Dep		State of Project:			-	408 1	Address:
(in animality)		Program: IIST/PST DDDD Dame		Company Name:	LPE		Company Name
David Ad Cin C Bill to: (If different)		Work Order		Bill to: (if different)	Adkins	r David	Project Manager:



Work Order No: 665597

## **XENCO** Laboratories

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

Client: Talon LPE-Artesia	Acceptable Temperature F	Range: 0 - 6 degC
Date/ Time Received: 06.25.2020 03.45.00 PM	Air and Metal samples Ac	ceptable Range: Ambient
Work Order #: 665597	Temperature Measuring d	evice used: T NM 007
Sample Rece	ipt 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:

PH Device/Lot#:

Checklist completed by: Date: 06.26.2020

Checklist reviewed by: fession Whamen Jessica Kramer

Date: 06.29.2020

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# Certificate of Analysis Summary 672834

Page 66 of 185

Talon LPE-Artesia, Artesia, NM

**Project Name: Trionyx Frac Pond (Pond)** 

Project Id:	7079433601								Date R	eceived	in Lab: Thu	09.17.2	020 12:30			
Contact:	R Pons						<b>Report Date:</b> 09.21.2020 13:12									
Project Location:	Lea County						Project Manager: Jessica Kramer									
		Lab Id:	672834-0	001	672834-0	02	672834-0	03	672834-0	04	672834-0	05	672834-0	06		
Analysis	Roquested	Field Id:	S1 1-2		S1 2-3'		S1 3-4'		S2 1-2'		S2 2-3'		S2 3-4'			
Analysis Requested		Depth:	1-2 ft	1-2 ft		2-3 ft			1-2 ft		2-3 ft		3-4 ft			
	Matrix			SOIL			SOIL		SOIL		SOIL		SOIL			
		Sampled:	09.16.2020 09:00		09.16.2020 09:05		09.16.2020	09:10	09.16.2020	09:20	09.16.2020 09:25		09.16.2020 (	09:30		
Chloric	Chloride by EPA 300 Extracted		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020	15:28		
Analyzed			** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**		
	Units/H			RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride			204	9.94	928	49.8	1910	49.6	911	9.90	281	10.1	3370	50.5		

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Jessica Vramer

Project Id:

**Project Location:** 

**Contact:** 

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7079433601

Lea County

R Pons

# Certificate of Analysis Summary 672834

Talon LPE-Artesia, Artesia, NM

#### **Project Name: Trionyx Frac Pond (Pond)**

Date Received in Lab: Thu 09.17.2020 12:30 **Report Date:** 09.21.2020 13:12

Project Manager: Jessica Kramer

	Lab Id:	672834-0	07	672834-0	08	672834-0	)09	672834-0	010	672834-0	011	672834-0	012
Analysis Requested	Field Id:	S3 3-4'		S4 3-4'		S5 0-1'		S5 1-2'		S5 2-3'		S5 3-4'	
Anulysis Kequesieu	Depth:	3-4 ft		3-4 ft		0-1 ft		1-2 ft		2-3 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	09.16.2020	09:50	09.16.2020	10:10	09.16.2020 10:20		09.16.2020 10:25		09.16.2020 10:30		09.16.2020	10:35
BTEX by EPA 8021B	Extracted:					09.17.2020	14:38	09.17.2020 14:38		09.17.2020 14:38		09.17.2020	14:38
	Analyzed:					09.17.2020	18:24	09.17.2020	18:46	09.17.2020	19:09	09.17.2020	19:31
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
Toluene						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
Ethylbenzene						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
m,p-Xylenes						< 0.00402	0.00402	< 0.00403	0.00403	< 0.00403	0.00403	< 0.00398	0.00398
o-Xylene						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
Total Xylenes						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
Total BTEX						< 0.00201	0.00201	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00199	0.00199
Chloride by EPA 300	Extracted:	09.18.2020	15:28	09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28	
	Analyzed:	** ** **	**	** ** ** **		** ** **	**	** ** **	**	** ** **	**	** ** **	**
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5250	49.6	321	9.98	153	9.92	63.1	9.96	237	9.90	259	9.96
TPH By SW8015 Mod	Extracted:					09.17.2020	17:20	09.17.2020	14:00	09.17.2020	14:00	09.17.2020	14:00
	Analyzed:					09.17.2020	23:34	09.18.2020	10:13	09.17.2020	18:52	09.17.2020	19:12
	Units/RL:					mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)						<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)						<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)						<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.0	50.0
Total TPH						<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.0	50.0

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Page 2 of 66

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Project Id:

**Project Location:** 

**Contact:** 

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7079433601

Lea County

R Pons

# Certificate of Analysis Summary 672834

Talon LPE-Artesia, Artesia, NM

#### **Project Name: Trionyx Frac Pond (Pond)**

 Date Received in Lab:
 Thu 09.17.2020 12:30

 Report Date:
 09.21.2020 13:12

Project Manager: Jessica Kramer

	Lab Id:	672834-0	013	672834-0	14	672834-0	015	672834-0	016	672834-0	017	672834-0	018
Analysis Requested	Field Id:	S6 0-1	,	S6 1-2'		S6 2-3'		S6 3-4'		S7 0-1'		S7 1-2'	
Analysis Requested	Depth:	0-1 ft		1-2 ft		2-3 ft		3-4 ft		0-1 ft		1-2 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	09.16.2020	10:45	09.16.2020	10:50	09.16.2020 10:55		09.16.2020 11:00		09.16.2020 11:10		09.16.2020	11:15
BTEX by EPA 8021B	Extracted:	09.17.2020	14:38	09.17.2020	14:38	09.17.2020	14:38	09.17.2020 14:38		09.17.2020 14:38		09.17.2020	14:38
	Analyzed:	09.17.2020	19:54	09.17.2020	20:16	09.17.2020	20:39	09.17.2020	21:01	09.17.2020	21:23	09.17.2020	21:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202
Toluene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Ethylbenzene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
m,p-Xylenes		< 0.00398	0.00398	< 0.00399	0.00399	< 0.00397	0.00397	< 0.00403	0.00403	<0.00401	0.00401	< 0.00403	0.00403
o-Xylene		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Total Xylenes		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Total BTEX		< 0.00199	0.00199	< 0.00200	0.00200	< 0.00198	0.00198	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	09.18.2020	15:28	09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28		09.18.2020 15:28	
	Analyzed:	** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**	** ** **	**
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		186	10.1	121	10.1	327	9.94	1030	10.1	221	10.0	70.9	10.0
TPH By SW8015 Mod	Extracted:	09.17.2020	14:00	09.17.2020	14:00	09.17.2020 14:00		09.17.2020 14:00		09.17.2020 14:00		09.17.2020	14:00
	Analyzed:	09.17.2020	19:32	09.17.2020	19:52	09.17.2020	20:12	09.17.2020	20:32	09.17.2020	20:53	09.17.2020	21:13
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.2	50.2	<49.9	49.9	<50.0	50.0

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Page 3 of 66

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Project Id:

**Project Location:** 

**Contact:** 

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Environment Testing Xenco

7079433601

Lea County

R Pons

# Certificate of Analysis Summary 672834

Talon LPE-Artesia, Artesia, NM

#### **Project Name: Trionyx Frac Pond (Pond)**

 Date Received in Lab:
 Thu 09.17.2020 12:30

 Report Date:
 09.21.2020 13:12

Project Manager: Jessica Kramer

	Lab Id:	672834-0	19	672834-0	20	672834-0	021	672834-0	)22	672834-0	023	672834-0	24
Analysis Requested	Field Id:	S7 2-3'		S7 3-4'		S8 0-1'		S8 1-2'		S8 2-3'		S8 3-4'	
Anulysis Requested	Depth:	2-3 ft		3-4 ft		0-1 ft		1-2 ft		2-3 ft		3-4 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	09.16.2020	11:20	09.16.2020	11:25	09.16.2020 11:35		09.16.2020 11:40		09.16.2020 11:45		09.16.2020	11:50
BTEX by EPA 8021B	Extracted:	09.17.2020	14:38	09.17.2020	14:38	09.18.2020	06:00	09.18.2020 06:00		09.18.2020 06:00		09.18.2020	06:00
	Analyzed:	09.17.2020	23:04	09.17.2020	23:26	09.18.2020	08:53	09.18.2020	09:16	09.18.2020	09:38	09.18.2020	10:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	< 0.00202	0.00202	< 0.00202	0.00202
Toluene		< 0.00198	0.00198	<0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	<0.00202	0.00202	< 0.00202	0.00202
Ethylbenzene		< 0.00198	0.00198	<0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	<0.00202	0.00202	< 0.00202	0.00202
m,p-Xylenes		< 0.00396	0.00396	< 0.00397	0.00397	< 0.00396	0.00396	< 0.00403	0.00403	< 0.00403	0.00403	< 0.00403	0.00403
o-Xylene		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	<0.00202	0.00202	< 0.00202	0.00202
Total Xylenes		< 0.00198	0.00198	<0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	<0.00202	0.00202	< 0.00202	0.00202
Total BTEX		< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202	<0.00202	0.00202	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	09.18.2020	15:28	09.18.2020 15:28		09.17.2020 17:31		09.17.2020 17:31		09.17.2020 17:31		09.17.2020	17:31
	Analyzed:	** ** **	**	** ** **	**	09.17.2020	19:57	09.17.2020	20:14	09.17.2020	20:19	09.17.2020	20:25
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		307	10.0	1250	50.0	155	9.92	54.0	49.9	154	10.1	332	9.90
TPH By SW8015 Mod	Extracted:	09.17.2020	14:00	09.17.2020 14:00		09.17.2020 17:20		09.17.2020 17:20		09.17.2020 17:20		09.17.2020	17:20
	Analyzed:	09.17.2020	21:33	09.17.2020	21:53	09.18.2020	00:34	09.18.2020	00:54	09.18.2020	01:14	09.18.2020	01:34
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.2	50.2	<49.8	49.8	<50.3	50.3
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.2	50.2	<49.8	49.8	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.2	50.2	<49.8	49.8	<50.3	50.3
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.2	50.2	<49.8	49.8	<50.3	50.3

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Page 4 of 66

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Project Id:

**Project Location:** 

**Contact:** 

Environment Testing Xenco

7079433601

Lea County

R Pons

# Certificate of Analysis Summary 672834

Talon LPE-Artesia, Artesia, NM

#### **Project Name: Trionyx Frac Pond (Pond)**

 Date Received in Lab:
 Thu 09.17.2020 12:30

 Report Date:
 09.21.2020 13:12

Project Manager: Jessica Kramer

	Lab Id:	672834-0	25	672834-0	26	672834-0	027	672834-	028		
Analysis Requested	Field Id:	S9 0-1'		S9 1-2'		S9 2-3'		S9 3-4'			
Analysis Kequestea	Depth:	0-1 ft		1-2 ft		2-3 ft		3-4 ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	09.16.2020	12:00	09.16.2020	12:05	09.16.2020	12:10	09.16.2020 12:15			
BTEX by EPA 8021B	Extracted:	09.18.2020	06:00	09.17.2020	14:38	09.17.2020	14:38	09.17.2020 14:38			
	Analyzed:	09.18.2020	10:23	09.17.2020	23:49	09.18.2020	00:11	09.18.2020	00:33		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00199	0.00199	<0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00398	0.00398	<0.00398	0.00398	< 0.00401	0.00401	< 0.00401	0.00401		
o-Xylene		< 0.00199	0.00199	<0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00199	0.00199	<0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		<0.00199 0.00199		<0.00199	0.00199	< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	09.17.2020	09.17.2020 17:31		09.17.2020 17:31		09.17.2020 17:31		17:31		
	Analyzed:	09.17.2020	20:30	09.17.2020	20:47	09.17.2020	20:52	09.17.2020	20:57		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1050	9.90	576 9.90		569 10.1		1160 50.1			
TPH By SW8015 Mod	Extracted:	09.17.2020	17:20	09.17.2020 17:20		09.17.2020 17:20		09.17.2020 17:20			
	Analyzed:	09.18.2020	01:55	09.18.2020	02:15	09.18.2020	02:34	09.18.2020	02:55		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.1	50.1		
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.1	50.1		
Total TPH		<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.1	50.1		

BRL - Below Reporting Limit

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

Jession Kramer

Page 5 of 66

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# Analytical Report 672834

for

**Talon LPE-Artesia** 

**Project Manager: R Pons** 

Trionyx Frac Pond (Pond) 7079433601 09.21.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

09.21.2020

Project Manager: **R Pons Talon LPE-Artesia** 408 West Texas St. Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): 672834 Trionyx Frac Pond (Pond) Project Address: Lea County

#### R Pons:

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 Eurofins Xenco, LLC Report Number(s) 672834. 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 Eurofins Xenco, LLC. 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. 672834 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 Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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

Page 7 of 66
#### Received by OCD: 2/22/2021 3:06:00 PM

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### Sample Cross Reference 672834

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

	Sample Depth	Lab Sample Id
S1 1-2' S 09.16.2020 09:00	1 - 2 ft	672834-001
S1 2-3' S 09.16.2020 09:05	2 - 3 ft	672834-002
S1 3-4' S 09.16.2020 09:10	3 - 4 ft	672834-003
S2 1-2' S 09.16.2020 09:20	1 - 2 ft	672834-004
S2 2-3' S 09.16.2020 09:25	2 - 3 ft	672834-005
S2 3-4' S 09.16.2020 09:30	3 - 4 ft	672834-006
S3 3-4' S 09.16.2020 09:50	3 - 4 ft	672834-007
S4 3-4' S 09.16.2020 10:10	3 - 4 ft	672834-008
S5 0-1' S 09.16.2020 10:20	0 - 1 ft	672834-009
S5 1-2' S 09.16.2020 10:25	1 - 2 ft	672834-010
S5 2-3' S 09.16.2020 10:30	2 - 3 ft	672834-011
S5 3-4' S 09.16.2020 10:35	3 - 4 ft	672834-012
S6 0-1' S 09.16.2020 10:45	0 - 1 ft	672834-013
S6 1-2' S 09.16.2020 10:50	1 - 2 ft	672834-014
S6 2-3' S 09.16.2020 10:55	2 - 3 ft	672834-015
S6 3-4' S 09.16.2020 11:00	3 - 4 ft	672834-016
S7 0-1' S 09.16.2020 11:10	0 - 1 ft	672834-017
S7 1-2' S 09.16.2020 11:15	1 - 2 ft	672834-018
S7 2-3' S 09.16.2020 11:20	2 - 3 ft	672834-019
S7 3-4' S 09.16.2020 11:25	3 - 4 ft	672834-020
S8 0-1' S 09.16.2020 11:35	0 - 1 ft	672834-021
S8 1-2' S 09.16.2020 11:40	1 - 2 ft	672834-022
S8 2-3' S 09.16.2020 11:45	2 - 3 ft	672834-023
S8 3-4' S 09.16.2020 11:50	3 - 4 ft	672834-024
S9 0-1' S 09.16.2020 12:00	0 - 1 ft	672834-025
S9 1-2" S 09.16.2020 12:05	1 - 2 ft	672834-026
S9 2-3' S 09.16.2020 12:10	2 - 3 ft	672834-027
S9 3-4' S 09.16.2020 12:15	3 - 4 ft	672834-028

### **CASE NARRATIVE**

Client Name: Talon LPE-Artesia Project Name: Trionyx Frac Pond (Pond)

 Project ID:
 7079433601

 Work Order Number(s):
 672834

 Report Date:
 09.21.2020

 Date Received:
 09.17.2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S1 1-2'</b> Lab Sample Id: 672834-001		Matrix: Date Collecte	Soil d: 09.16.2020 09:00		Date Received Sample Depth		12:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weigh	t
Seq Number: 3137498							
Parameter	Cas Number	Result RI	_	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **204** 

9.94

mg/kg 09.17.2020 16:56

1

# **Certificate of Analytical Results 672834**

5

.

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S1 2-3'           Lab Sample Id:         672834-002		Matrix: Date Collecte	Soil d: 09.16.2020 09:05		Date Received Sample Depth	d:09.17.2020 12 n: 2 - 3 ft	2:30
Analytical Method:Chloride by EPATech:MABAnalyst:MABSeq Number:3137498	300	Date Prep:	09.18.2020 15:28		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result RI	- -	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **928** 

49.8

mg/kg 09.1

09.17.2020 17:13

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# **Certificate of Analytical Results 672834**

5

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### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S1 3-4'</b> Lab Sample Id: 672834-003		Matrix: Date Collecte	Soil d: 09.16.2020 09:10		Date Received Sample Depth		12:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weight	
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **1910** 

49.6

mg/kg 09.17

09.17.2020 17:18

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# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S2 1-2'</b> Lab Sample Id: 672834-004		Matrix: Date Collecte	Soil ed: 09.16.2020 09:20		Date Received Sample Depth		12:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weigh	t
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

911

16887-00-6

9.90

mg/kg 09.17.2020 17:24

1

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S2 2-3'</b> Lab Sample Id: 672834-005		Matrix: Date Collecte	Soil d: 09.16.2020 09:25		Date Received Sample Depth		0 12:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weig	ht
Seq Number: 3137498							
Parameter	Cas Number	Result RI	_	Units	Analysis D	ate Flag	g Dil

Chloride

281

16887-00-6

10.1

mg/kg 09.17.2020 17:29

1

.

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# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S2 3-4'</b> Lab Sample Id: 672834-006		Matrix: Date Collecte	Soil d: 09.16.2020 09:30		Date Received Sample Depth	d:09.17.2020 1 n: 3 - 4 ft	2:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weight	
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

3370

16887-00-6

50.5

mg/kg 09.17.2020 17:46

6

5

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S3 3-4'</b> Lab Sample Id: 672834-007		Matrix: Date Collecte	Soil ed: 09.16.2020 09:50		Date Received Sample Depth	d:09.17.2020 1 n: 3 - 4 ft	2:30
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weight	
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **5250** 

49.6

mg/kg 09.17.2020 17:51

5

.

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Page 16 of 66

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S4 3-4'</b> Lab Sample Id: 672834-008		Matrix: Date Collecte	Soil d: 09.16.2020 10:10		Date Received Sample Depth		12:30
Analytical Method: Chloride by EPA Tech: MAB	A 300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weight	
Seq Number: 3137498							
Parameter	Cas Number	Result RI	_	Units	Analysis D	ate Flag	Dil

Chloride

16887-00-6 **321** 

9.98

mg/kg 09.17.2020 17:57

1

.

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# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 0-1'</b> Lab Sample Id: 672834-009		Matrix: Date Coll	Soil ected: 09.16.2020 10:20	)	Date Received Sample Depth:		2:30
Analytical Method: Chloride by EP Tech: MAB	A 300				Prep Method: % Moisture:	E300P	
Analyst: MAB Seg Number: 3137498		Date Prep	: 09.18.2020 15:28	5	Basis:	Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Da	ite Flag	Dil
Chloride	16887-00-6	153	9.92	mg/kg	09.17.2020 18	3:02	1

Analytical Method: TPH By SW80 Tech: DTH	15 Mod					Prep Method: SW % Moisture:	8015P	
Analyst: DTH		Date P	rep: 09.	17.2020 17:20		Basis: We	Weight	
Seq Number: 3137481			•					
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 23:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.17.2020 23:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 23:34	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.17.2020 23:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	09.17.2020 23:34	Ļ	

88

%

70-135

09.17.2020 23:34

84-15-1

o-Terphenyl

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# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 0-1'</b> Lab Sample Id: 672834-009	Matrix: Date Collect	Soil ed: 09.16.2020 10:20	Date Received:09.17.2020 12:30 Sample Depth: 0 - 1 ft		
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method % Moisture:	: SW5035A	
Analyst: MAB Seq Number: 3137494	Date Prep:	09.17.2020 14:38	Basis:	Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.17.2020 18:24	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.17.2020 18:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.17.2020 18:24		
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.17.2020 18:24		

# **Certificate of Analytical Results 672834**

Page 85 of 185

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil
Seq Number:	3137498									
Analyst:	MAB		Date Pr	ep:	09.18.2020 15:28		Basis:	Wet V	Weight	
Tech:	MAB						% Moisture:			
Analytical Me	ethod: Chloride by EPA	300					Prep Method:	E300	Р	
Sample Id: Lab Sample I	<b>S5 1-2'</b> d: 672834-010		Matrix: Date Co		Soil 1: 09.16.2020 10:25		Date Received Sample Depth			30

					·	0	
Chloride	16887-00-6	63.1	9.96	mg/kg	09.17.2020 18:08		1

Analytical Method: TPH By SW802	15 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 0	9.17.2020 14:00		Basis: We	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	09.18.2020 10:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	09.18.2020 10:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	09.18.2020 10:13	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	09.18.2020 10:13	U	1
Surrogate		Cas Number	% Recover	ry Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-135	09.18.2020 10:1	3	
o-Terphenyl	:	84-15-1	75	%	70-135	09.18.2020 10:1	3	

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# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 1-2'</b>	Matrix:	Soil	Date Received	d:09.17.2020 12:30
Lab Sample Id: 672834-010	Date Collecte	ed: 09.16.2020 10:25	Sample Depth	n: 1 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep:	09.17.2020 14:38	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.17.2020 18:46	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.17.2020 18:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 18:46		
4-Bromofluorobenzene		460-00-4	95	%	70-130	09.17.2020 18:46		

# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 2-3'</b> Lab Sample Id: 672834-011		Matrix: Date Collecte	Soil d: 09.16.2020 10:30		Date Received Sample Depth		20 12:30	
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P		
Analyst: MAB Seq Number: 3137498		Date Prep:	09.18.2020 15:28		Basis:	Wet Wei	ght	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Fla	ag l	Dil

				omus		 21
Chloride	16887-00-6	237	9.90	mg/kg	09.17.2020 18:13	1

Analytical Method: TPH By SW80	15 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	9.17.2020 14:00		Basis: We	t Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.17.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	09.17.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.17.2020 18:52	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.17.2020 18:52	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	84	%	70-135	09.17.2020 18:5	2	
o-Terphenyl		84-15-1	89	%	70-135	09.17.2020 18:5	2	

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# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 2-3'</b> Lab Sample Id: 672834-011	Matrix: Date Collecte	Soil ed: 09.16.2020 10:30	Date Receive Sample Deptl	d:09.17.2020 12:30 n: 2 - 3 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep:	09.17.2020 14:38	Prep Method: % Moisture: Basis:	SW5035A Wet Weight
Seq Number: 3137494				

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.17.2020 19:09	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.17.2020 19:09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.17.2020 19:09		
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 19:09		

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample Id	<b>85 3-4'</b> d: 672834-012		Matrix: Date Coll	ected	Soil : 09.16.2020 10:35		Date Received Sample Depth			30
Analytical Me Tech:	ethod: Chloride by EPA 3 MAB	300					Prep Method: % Moisture:	E300	)P	
Analyst: Seq Number:	MAB 3137498		Date Prep	):	09.18.2020 15:28		Basis:	Wet	Weight	
Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil

Chloride	16887-00-6	259	9.96	mg/kg	09.17.2020 18:30	1

Analytical Method: TPH By SW801	5 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 09	0.17.2020 14:00		Basis: We	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.17.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.17.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.17.2020 19:12	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.17.2020 19:12	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	e Flag	
1-Chlorooctane		111-85-3	88	%	70-135	09.17.2020 19:1	2	
o-Terphenyl		84-15-1	94	%	70-135	09.17.2020 19:1	2	

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S5 3-4'</b> Lab Sample Id: 672834-012	Matrix: Date Collected	Soil 09.16.2020 10:35	Date Received Sample Depth	:09.17.2020 12:30 : 3 - 4 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method: % Moisture:	SW5035A
Analyst:MABSeq Number:3137494	Date Prep:	09.17.2020 14:38	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.17.2020 19:31	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.17.2020 19:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 19:31		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.17.2020 19:31		

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample Id	<b>S6 0-1'</b> d: 672834-013		Matrix: Date Coll	ected	Soil : 09.16.2020 10:45		Date Received:09.17.2020 12:30 Sample Depth: 0 - 1 ft			30
Analytical Me Tech:	ethod: Chloride by EPA 3 MAB	300					Prep Method: % Moisture:	E300	)P	
Analyst: Seq Number:	MAB 3137498		Date Prep	):	09.18.2020 15:28		Basis:	Wet	Weight	
Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil

Chloride	16887-00-6	186	10.1	mg/kg	09.17.2020 18:35	1

Analytical Method: TPH By SW80	15 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	ep: 09.	17.2020 14:00		Basis: W	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.17.2020 19:32	2 U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	09.17.2020 19:32	2 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	09.17.2020 19:32	2 U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.17.2020 19:32	2 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	89	%	70-135	09.17.2020 19	:32	
o-Terphenyl	:	84-15-1	94	%	70-135	09.17.2020 19	:32	

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S6 0-1'</b> Lab Sample Id: 672834-013	Matrix: Soil Date Collected: 09.16.2020 10:45	Date Received:09.17.2020 12:30 Sample Depth: 0 - 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep: 09.17.2020 14:38	Prep Method: SW5035A % Moisture: Basis: Wet Weight
Seq Number: 3137494		C

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.17.2020 19:54	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.17.2020 19:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 19:54		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 19:54		

# **Certificate of Analytical Results 672834**

Page 93 of 185

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S6 1-2'</b> Lab Sample Id: 672834-014		Matrix: Date Collect	Soil ed: 09.16.2020 10:50		Date Receiver Sample Depth		20 12:30
Analytical Method: Chloride by EPA Tech: MAB	A 300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Wei	ght
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Fla	ag Dil

		-		01110	1111113010 20100	8	21
Chloride	16887-00-6	121	10.1	mg/kg	09.17.2020 18:52		1

Analytical Method: TPH By SW80 Tech: DTH	15 Mod					Prep Method: SW % Moisture:	/8015P	
Analyst: DTH		Date P	rep: 09	.17.2020 14:00		Basis: We	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 19:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.17.2020 19:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 19:52	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.17.2020 19:52	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	09.17.2020 19:5	2	
o-Terphenyl		84-15-1	92	%	70-135	09.17.2020 19:5	2	

# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S6 1-2'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-014	Date Collected: 09.16.20	20 10:50 Sample Depth: 1 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.202	Prep Method: SW5035A % Moisture: 20 14:38 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.17.2020 20:16	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.17.2020 20:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	87	%	70-130	09.17.2020 20:16		
1,4-Difluorobenzene		540-36-3	97	%	70-130	09.17.2020 20:16		

# **Certificate of Analytical Results 672834**

Page 95 of 185

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Parameter		Cas Number	Result	RL		Units	Analysis D	ate	Flag	Dil
Seq Number:	3137498									
Analyst:	MAB		Date Prep	):	09.18.2020 15:28		Basis:	Wet	Weight	
Tech:	MAB						% Moisture:			
Analytical Me	ethod: Chloride by EPA	300					Prep Method:	E300	P	
Sample Id: Lab Sample I	<b>S6 2-3'</b> d: 672834-015		Matrix: Date Coll	ected	Soil : 09.16.2020 10:55		Date Received Sample Depth			30

 Chloride
 16887-00-6
 327
 9.94
 mg/kg
 09.17.2020 18:57
 1

Analytical Method: TPH By SW80	15 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	0.17.2020 14:00		Basis: Wet	Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.17.2020 20:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	09.17.2020 20:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.17.2020 20:12	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.17.2020 20:12	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	87	%	70-135	09.17.2020 20:12		

91

%

70-135

09.17.2020 20:12

84-15-1

o-Terphenyl

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# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S6 2-3'           Lab Sample Id:         672834-015	Matrix:	Soil	Date Received:09.17.2020 12:30		
	Date Collecte	ed: 09.16.2020 10:55	Sample Depth: 2 - 3 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep:	09.17.2020 14:38	Prep Metho % Moisture Basis:	d: SW5035A : Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	09.17.2020 20:39	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.17.2020 20:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.17.2020 20:39		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 20:39		

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# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S6 3-4'</b> Lab Sample Id: 672834-016		Matrix: Date Collecte	Soil d: 09.16.2020 11:00		Date Receive Sample Depth	d:09.17.2020 a n: 3 - 4 ft	12:30
Analytical Method: Chloride by EPA Tech: MAB	A 300				Prep Method: % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet Weight	
Seq Number: 3137498							
Parameter	Cas Number	Result R	L	Units	Analysis D	ate Flag	Dil

					j ~>	8	
Chloride	16887-00-6	1030	10.1	mg/kg	09.17.2020 19:02		1

Analytical Method: TPH By SW801	15 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	ep: 09	.17.2020 14:00		Basis: We	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	09.17.2020 20:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	09.17.2020 20:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	09.17.2020 20:32	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	09.17.2020 20:32	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	86	%	70-135	09.17.2020 20:3	2	
o-Terphenyl		84-15-1	91	%	70-135	09.17.2020 20:3	2	

# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S6 3-4'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-016	Date Collected: 09.16.2020 11:00	Sample Depth: 3 - 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.2020 14:38	Prep Method: SW5035A % Moisture: Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.17.2020 21:01	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.17.2020 21:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.17.2020 21:01		
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.17.2020 21:01		

# **Certificate of Analytical Results 672834**

Page 99 of 185

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 0-1'</b> Lab Sample Id: 672834-017		Matrix: Date Collect	Soil ed: 09.16.2020 11:10		Date Received Sample Depth			0
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P	,	
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet W	/eight	
Seq Number: 3137498								
Parameter	Cas Number	Result R	L	Units	Analysis D	ate	Flag	Dil

					ĩ	0	
Chloride	16887-00-6	221	10.0	mg/kg	09.17.2020 19:08	1	

Analytical Method: TPH By SW801	5 Mod					Prep Method: SW	8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	.17.2020 14:00		Basis: We	t Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.17.2020 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.17.2020 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.17.2020 20:53	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.17.2020 20:53	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-135	09.17.2020 20:53	3	
o-Terphenyl	:	84-15-1	85	%	70-135	09.17.2020 20:53	3	

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# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 0-1'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-017	Date Collected: 09.16.2020	) 11:10 Sample Depth: 0 - 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.2020	Prep Method: SW5035A % Moisture: ) 14:38 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.17.2020 21:23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.17.2020 21:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.17.2020 21:23		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.17.2020 21:23		

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Environment Testing Xenco

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 1-2'</b> Lab Sample Id: 672834-018		Matrix: Date Collecte	Soil ed: 09.16.2020 11:15		Date Received Sample Depth			0
Analytical Method: Chloride by EPA Tech: MAB	300				Prep Method: % Moisture:	E300P		
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet W	eight	
Seq Number: 3137498								
Parameter	Cas Number	Result R	L	Units	Analysis D	ate	Flag	Dil

					<b>j</b>	8		
Chloride	16887-00-6	70.9	10.0	mg/kg	09.17.2020 19:13		1	

Analytical Method: TPH By SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	.17.2020 14:00		Basis: W	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.17.2020 21:13	3 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.17.2020 21:13	3 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.17.2020 21:13	3 U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.17.2020 21:13	3 U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	84	%	70-135	09.17.2020 21	:13	
o-Terphenyl		84-15-1	89	%	70-135	09.17.2020 21	:13	

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 1-2'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-018	Date Collected: 09.16.2020 11:	Sample Depth: 1 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.2020 14:	Prep Method: SW5035A % Moisture: 38 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
Toluene	108-88-3	< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
Ethylbenzene	100-41-4	< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
m,p-Xylenes	179601-23-1	< 0.00403	3 0.00403		mg/kg	09.17.2020 21:46	U	1
o-Xylene	95-47-6	< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
Total Xylenes	1330-20-7	< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
Total BTEX		< 0.00202	2 0.00202		mg/kg	09.17.2020 21:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	09.17.2020 21:46		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 21:46		

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# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 2-3'</b> Lab Sample Id: 672834-019		Matrix: Date Collecte	Soil d: 09.16.2020 11:20		Date Received:09.17.2020 12:30 Sample Depth: 2 - 3 ft			0
Analytical Method: Chloride Tech: MAB	e by EPA 300				Prep Method: % Moisture:	E300P		
Analyst: MAB		Date Prep:	09.18.2020 15:28		Basis:	Wet W	'eight	
Seq Number: 3137498								
Parameter	Cas Number	Result RI	_	Units	Analysis D	ate	Flag	Dil

	Cubittaniber		RE .	Omto	marysis Date	Thas	DI
Chloride	16887-00-6	307	10.0	mg/kg	09.17.2020 19:19		1

Analytical Method: TPH By SW802	15 Mod					Prep Method: SV	V8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 0	9.17.2020 14:00		Basis: W	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.17.2020 21:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.17.2020 21:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.17.2020 21:33	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.17.2020 21:33	U	1
Surrogate		Cas Number	% Recover	ry Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	85	%	70-135	09.17.2020 21:	33	
o-Terphenyl		84-15-1	87	%	70-135	09.17.2020 21:	33	

Received by OCD: 2/22/2021 3:06:00 PM

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# **Certificate of Analytical Results 672834**

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 2-3'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-019	Date Collected: 09.16.2020 11:20	Sample Depth: 2 - 3 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.2020 14:38	Prep Method:SW5035A% Moisture:Basis:Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.17.2020 23:04	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.17.2020 23:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	09.17.2020 23:04		
1,4-Difluorobenzene		540-36-3	100	%	70-130	09.17.2020 23:04		

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 3-4'</b> Lab Sample Id: 672834-020		Matrix: Date Collecte	Soil d: 09.16.2020 11:25	Date Receive Sample Dept	ed:09.17.2020 12:30 h: 3 - 4 ft
Analytical Method: Chloride by EPA	300			Prep Method % Moisture:	: E300P
Analyst: MAB		Date Prep:	09.18.2020 15:28	Basis:	Wet Weight
Seq Number: 3137498					
Parameter	Cas Number	Result RI	L U	nits Analysis I	Date Flag Dil

1 arameter	Cus rumber	Rebuit	KL	Omts	Analysis Date	Flag	Di
Chloride	16887-00-6	1250	50.0	mg/kg	09.17.2020 19:24		5

Analytical Method: TPH By SW80	15 Mod					Prep Method: SV	V8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	0.17.2020 14:00		Basis: We	et Weight	
Seq Number: 3137402								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.17.2020 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	09.17.2020 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	09.17.2020 21:53	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.17.2020 21:53	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	e Flag	
1-Chlorooctane		111-85-3	81	%	70-135	09.17.2020 21:5	3	
o-Terphenyl		84-15-1	84	%	70-135	09.17.2020 21:5	3	

# Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S7 3-4'</b> Lab Sample Id: 672834-020	Matrix: Soil Date Collected: 09.16.2020	Date Received:09.17.2020 12:30           11:25         Sample Depth: 3 - 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.2020	Prep Method: SW5035A % Moisture: 14:38 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	09.17.2020 23:26	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.17.2020 23:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.17.2020 23:26		
4-Bromofluorobenzene		460-00-4	89	%	70-130	09.17.2020 23:26		

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample I	<b>S8 0-1'</b> d: 672834-021		Matrix: Date Col	Soil lected: 09.16.2020 11:3	5		Date Received:09.17.2020 12:30 Sample Depth: 0 - 1 ft		
Analytical Me Tech:	ethod: Chloride by EPA MAB	300				Prep Method: 1 % Moisture:	E300P		
Analyst:	MAB		Date Pre	p: 09.17.2020 17:3	1	Basis:	Wet Weight		
Seq Number:	3137499								
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil	
Chloride		16887-00-6	155	9.92	mg/kg	09.17.2020 19::	57	1	

Analytical Method: TPH By SW80 Tech: DTH	15 Mod					Prep Method: SW % Moisture:	8015P	
Analyst: DTH		Date P	rep: 09	0.17.2020 17:20		Basis: We	t Weight	
Seq Number: 3137481								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.18.2020 00:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	09.18.2020 00:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.18.2020 00:34	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	09.18.2020 00:34	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-135	09.18.2020 00:34	ł	

84

%

70-135

09.18.2020 00:34

84-15-1

o-Terphenyl

# **Certificate of Analytical Results 672834**

#### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S8 0-1'           Lab Sample Id:         672834-021	Matrix:	Soil	Date Receive	ed:09.17.2020 12:30
	Date Collect	ed: 09.16.2020 11:35	Sample Dept	th: 0 - 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137632	Date Prep:	09.18.2020 06:00	Prep Method % Moisture: Basis:	l: SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.18.2020 08:53	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.18.2020 08:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	09.18.2020 08:53		
4-Bromofluorobenzene		460-00-4	89	%	70-130	09.18.2020 08:53		
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# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Parameter		Cas Number	Result	RL		Units	Analysis	Date	Flag	Dil
Seq Number:	3137499									
Analyst:	MAB		Date Pre	ep:	09.17.2020 17:31		Basis:	Wet	Weight	
Tech:	MAB						% Moisture	:		
Analytical Me	thod: Chloride by EPA	300					Prep Metho	d: E30	0P	
Sample Id: Lab Sample Id	<b>S8 1-2'</b> l: 672834-022		Matrix: Date Co	llected	Soil l: 09.16.2020 11:40		Date Receiv Sample Dep			:30

r al ameter	Cas Number	Result	KL	Units	Analysis Date	Flag	DII
Chloride	16887-00-6	54.0	49.9	mg/kg	09.17.2020 20:14		5

Analytical Method: TPH By SW801	5 Mod					Prep Method: SV	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	.17.2020 17:20		Basis: W	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	09.18.2020 00:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	09.18.2020 00:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	09.18.2020 00:54	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	09.18.2020 00:54	U	1
Surrogate		Cas Number	% Recovery	y Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	88	%	70-135	09.18.2020 00:	54	
o-Terphenyl		84-15-1	89	%	70-135	09.18.2020 00:	54	

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S8 1-2'           Lab Sample Id:         672834-022	Matrix: Soi Date Collected: 09.	Date Received Sample Depth:	:09.17.2020 12:30 1 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137632	Date Prep: 09.	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.18.2020 09:16	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.18.2020 09:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.18.2020 09:16		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.18.2020 09:16		

Environment Testing Xenco

# **Certificate of Analytical Results 672834**

### Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample Id	<b>S8 2-3'</b> d: 672834-023		Matrix: Date Co	llecte	Soil d: 09.16.2020 11:45		Date Receive Sample Dept			30
Analytical Me Tech:	ethod: Chloride by EPA MAB	300					Prep Method % Moisture:		OP	
Analyst:	MAB		Date Pre	p:	09.17.2020 17:31		Basis:		Weight	
Seq Number: Parameter	3137499	Cas Number	Result	RL		Units	Analysis l	Date	Flag	Dil

			ILL .	Chita	Analysis Dute	1 146	DI
Chloride	16887-00-6	154	10.1	mg/kg	09.17.2020 20:19		1

Analytical Method: TPH By SW801	5 Mod					Prep Method: SV	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	.17.2020 17:20		Basis: W	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	09.18.2020 01:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	09.18.2020 01:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	09.18.2020 01:14	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	09.18.2020 01:14	U	1
Surrogate		Cas Number	% Recovery	y Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	88	%	70-135	09.18.2020 01:	14	
o-Terphenyl		84-15-1	91	%	70-135	09.18.2020 01:	14	

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S8 2-3'</b>	Matrix:	Soil	Date Received	1:09.17.2020 12:30
Lab Sample Id: 672834-023	Date Collected:	09.16.2020 11:45	Sample Depth:	: 2 - 3 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137632	Date Prep:	09.18.2020 06:00	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.18.2020 09:38	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.18.2020 09:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.18.2020 09:38		
4-Bromofluorobenzene		460-00-4	95	%	70-130	09.18.2020 09:38		

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S8 3-4'</b> Lab Sample Id: 672834-024		Matrix: Date Collec	Soil cted: 09.16.2020 11:50		Date Received: Sample Depth: 3		2:30
Analytical Method: Chloric Tech: MAB	de by EPA 300				Prep Method: I % Moisture:	E300P	
Analyst: MAB		Date Prep:	09.17.2020 17:31		Basis:	Wet Weight	
Seq Number: 3137499							
Parameter	Cas Number	Result	RL	Units	Analysis Date	e Flag	Dil
Chloride	16887-00-6	332	9.90	mg/kg	09.17.2020 20:2	25	1

Analytical Method:TPH By SW80Tech:DTHAnalyst:DTHSeq Number:3137481	15 Mod	Date P	rep: 09	0.17.2020 17:20		Prep Method: SW % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	09.18.2020 01:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	09.18.2020 01:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	09.18.2020 01:34	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	09.18.2020 01:34	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	85	%	70-135	09.18.2020 01:34		
o-Terphenyl		84-15-1	89	%	70-135	09.18.2020 01:34		

## **Certificate of Analytical Results 672834**

Page 114 of 185

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S8 3-4'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-024	Date Collected: 09.16.2020 11:50	Sample Depth: 3 - 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137632	Date Prep: 09.18.2020 06:00	Prep Method: SW5035A % Moisture: Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.18.2020 10:01	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.18.2020 10:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.18.2020 10:01		
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.18.2020 10:01		

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample I	<b>S9 0-1'</b> d: 672834-025		Matrix: Date Coll	Soil lected: 09.16.202	20 12:00	Date Received Sample Depth	2:30	
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by EPA MAB MAB 3137499	300	Date Prep	o: 09.17.202	20 17:31	Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	1050	9.90	mg/kg	09.17.2020 20	):30	1

Analytical Method: TPH By SW80	15 Mod				Prep Method: SW8015P			
Tech: DTH						% Moisture:		
Analyst: DTH		Date Pr	rep: 09	.17.2020 17:20		Basis: W	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	09.18.2020 01:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3		mg/kg	09.18.2020 01:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	09.18.2020 01:55	U	1
Total TPH	PHC635	<50.3	50.3		mg/kg	09.18.2020 01:55	U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane	1	111-85-3	86	%	70-135	09.18.2020 01::	55	
o-Terphenyl	8	84-15-1	87	%	70-135	09.18.2020 01::	55	

## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S9 0-1'</b>	Matrix: Soil	Date Received:09.17.2020 12:30
Lab Sample Id: 672834-025	Date Collected: 09.16.2020 12:0	0 Sample Depth: 0 - 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137632	Date Prep: 09.18.2020 06:0	Prep Method: SW5035A % Moisture: 0 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.18.2020 10:23	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.18.2020 10:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.18.2020 10:23		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.18.2020 10:23		

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample I	<b>S9 1-2''</b> d: 672834-026		Matrix: Date Col	Soil lected: 09.16.2020 12:0:	5	Date Received: Sample Depth:	::30	
Analytical Me Tech:	ethod: Chloride by EPA MAB	300				Prep Method: % Moisture:	E300P	
Analyst:	MAB		Date Pre	p: 09.17.2020 17:3	1	Basis:	Wet Weight	
Seq Number:	3137499							
Parameter		Cas Number	Result	RL	Units	Analysis Dat	ie Flag	Dil
Chloride		16887-00-6	576	9.90	mg/kg	09.17.2020 20:	47	1

Analytical Method: TPH By SW80 Tech: DTH					Prep Method: SV % Moisture:	W8015P		
Analyst: DTH		Date P	rep: 09	.17.2020 17:20		Basis: W	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.18.2020 02:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	09.18.2020 02:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.18.2020 02:15	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.18.2020 02:15	U	1
Surrogate	(	Cas Number	% Recover	y Units	Limits	Analysis Dat	e Flag	

90

91

%

%

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

70-135

70-135

09.18.2020 02:15

09.18.2020 02:15

## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S9 1-2''</b>	Matrix:	Soil	Date Receive	ed:09.17.2020 12:30
Lab Sample Id: 672834-026	Date Collect	ed: 09.16.2020 12:05	Sample Dept	h: 1 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep:	09.17.2020 14:38	Prep Method % Moisture: Basis:	: SW5035A Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.17.2020 23:49	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.17.2020 23:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	09.17.2020 23:49		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.17.2020 23:49		

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: Lab Sample I	<b>89 2-3'</b> d: 672834-027		Matrix: Date Col	Soil lected: 09.16.2020 12:10	)	Date Received: Sample Depth:	2:30	
Analytical Me Tech:	ethod: Chloride by EPA MAB	. 300				Prep Method: %	E300P	
Analyst:	MAB		Date Pre	p: 09.17.2020 17:31		Basis:	Wet Weight	
Seq Number:	3137499							
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Chloride		16887-00-6	569	10.1	mg/kg	09.17.2020 20:	52	1

Analytical Method: TPH By SW80	15 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 09	.17.2020 17:20		Basis: We	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	09.18.2020 02:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	09.18.2020 02:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	09.18.2020 02:34	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	09.18.2020 02:34	U	1
Surrogate		Cas Number	% Recovery	y Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	09.18.2020 02:3	4	
o-Terphenyl		84-15-1	94	%	70-135	09.18.2020 02:3	4	

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## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S9 2-3'           Lab Sample Id:         672834-027	Matrix: Soil Date Collected: 09.16.20	Date Received:09.17.2020 12:30 20 12:10 Sample Depth: 2 - 3 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3137494	Date Prep: 09.17.20	Prep Method: SW5035A % Moisture: 20 14:38 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.18.2020 00:11	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.18.2020 00:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.18.2020 00:11		
4-Bromofluorobenzene		460-00-4	88	%	70-130	09.18.2020 00:11		

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# **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id:         S9 3-           Lab Sample Id:         6728.		Matrix: Date Collecte	Soil d: 09.16.2020 12:15	Date Received:09.17.2020 12:30 Sample Depth: 3 - 4 ft			
Analytical Method: Tech: MAB	Chloride by EPA 300			Prep Method: % Moisture:	E300P		
Analyst: MAB		Date Prep:	09.17.2020 17:31	Basis:	Wet Weight		
Seq Number: 31374	99						
Parameter	Cas Number	Result RI	. U	nits Analysis D	ate Flag Dil		

				emu		8	21
Chloride	16887-00-6	1160	50.1	mg/kg	09.17.2020 20:57		5

Analytical Method: TPH By SW80	15 Mod					Prep Method: SW	/8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 0	9.17.2020 17:20		Basis: We	et Weight	
Seq Number: 3137481								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.18.2020 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1		mg/kg	09.18.2020 02:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.18.2020 02:55	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.18.2020 02:55	U	1
Surrogate		Cas Number	% Recove	ry Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	09.18.2020 02:5	5	
o-Terphenyl		84-15-1	96	%	70-135	09.18.2020 02:5	5	

## **Certificate of Analytical Results 672834**

## Talon LPE-Artesia, Artesia, NM

Trionyx Frac Pond (Pond)

Sample Id: <b>S9 3-4'</b> Lab Sample Id: 672834-028	Matrix: Soil Date Collected: 09.16.2020 12:15	Date Received:09.17.2020 12:30 Sample Depth: 3 - 4 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep: 09.17.2020 14:38	Prep Method: SW5035A % Moisture: Basis: Wet Weight
Seq Number: 3137494	Date Prep: 09.17.2020 14.38	Dasis. Wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.18.2020 00:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.18.2020 00:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.18.2020 00:33		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.18.2020 00:33		

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## 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 Det	ection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	e Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered f	for this compound.			

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

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QC Summary 672834

## Talon LPE-Artesia

Trionyx Frac Pond (Pond)

Analytical Metho Seq Number: MB Sample Id:	<b>d:</b> Chloride 3137499 7711598-	-	00		Matrix: nple Id:	Solid 7711598-	I-BKS			ep Metho Date Pr D Sample	ep: 09.1	0P 7.2020 1598-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	256	102	256	102	90-110	0	20	mg/kg	09.17.2020 19:46	
Analytical Methors	<b>d: Chloride</b> 3137498	by EPA 3	00		Matrix:	Solid				ep Metho Date Pr	ep: 09.1	8.2020	
MB Sample Id:	7711596-	1-BLK		LCS Sai	nple Id:	7711596-	I-BKS		LCSI	D Sample	e Id: 771	1596-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	256	102	256	102	90-110	0	20	mg/kg	09.17.2020 16:34	
<b>Analytical Meth</b> Seq Number: Parent Sample Id:	<b>d:</b> Chloride 3137499 672834-02	by EPA 3	00		Matrix:	Soil 672834-02	21.5			ep Metho Date Pr	ep: 09.1	0P 7.2020 834-021 SD	
Parent Sample Id:	072854-0		Spiles	MS Sal	-			Limita	%RPD	RPD	Units		
Parameter		Parent Result	Spike Amount	Result	MS %Rec	MSD Result	MSD %Rec	Limits	%KPD	Limit	Units	Analysis Date	Flag
Chloride		155	199	357	102	357	102	90-110	0	20	mg/kg	09.17.2020 20:03	
Analytical Metho Seq Number:	<b>d: Chloride</b> 3137498 672834-0	by EPA 3	00		Matrix:	Soil 672834-00	11 5			ep Metho Date Pr	ep: 09.1	0P 8.2020 834-001 SD	
Parent Sample Id:	072834-0	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD Sample	Units	Analysis	Flag
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride		204	200	406	101	406	101	90-110	0	20	mg/kg	09.17.2020 17:02	
Analytical Metho Seq Number:	<b>d: Chloride</b> 3137498	by EPA 3	DO		Matrix:	Soil			Pr	ep Metho Date Pr		0P 8.2020	
Parent Sample Id:	672834-0	11		MS Sa	nple Id:	672834-0	11 S		MS	D Sample	e Id: 672	834-011 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		237	199	449	107	447	106	90-110	0	20	mg/kg	09.17.2020 18:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 59 of 66

Xenco

**Environment Testing** 

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QC Summary 672834

### **Talon LPE-Artesia**

Trionyx Frac Pond (Pond)

Analytical Method: Seq Number:	<b>TPH By S</b> 3137402	SW8015 M	od		Matrix:	Solid			Pı	rep Meth Date Pr	04.	8015P 17.2020	
MB Sample Id:	7711528-1	I-BLK		LCS Sar	nple Id:	7711528-	1-BKS		LCS	D Sample	e Id: 771	1528-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	805	81	809	81	70-135	0	35	mg/kg	09.17.2020 11:26	
Diesel Range Organics	(DRO)	<50.0	1000	876	88	869	87	70-135	1	35	mg/kg	09.17.2020 11:26	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		117		ç	99		99		70	-135	%	09.17.2020 11:26	
o-Terphenyl		111		8	39		90		70	-135	%	09.17.2020 11:26	

Analytical Method:	TPH By S	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3137481				Matrix:	Solid				Date Pr	ep: 09.1	7.2020	
MB Sample Id:	7711555-1	-BLK		LCS San	nple Id:	7711555-	1-BKS		LCS	D Sample	e Id: 771	1555-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	834	83	822	82	70-135	1	35	mg/kg	09.17.2020 22:53	
Diesel Range Organics	(DRO)	<50.0	1000	935	94	925	93	70-135	1	35	mg/kg	09.17.2020 22:53	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1-Chlorooctane		129		1	22		121		70	-135	%	09.17.2020 22:53	
o-Terphenyl		124		1	17		113		70	-135	%	09.17.2020 22:53	

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3137402	Matrix:	Solid	Date Prep:	09.1	7.2020	
		MB Sample Id:	7711528-1-BLK				
Parameter		MB Result		τ	J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)	<50.0		n	ng/kg	09.17.2020 11:06	

Analytical Method: Seq Number:	<b>TPH By SW8015 Mod</b> 3137481	Matrix: MB Sample Id:	Solid 7711555-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result			Inits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	09.17.2020 22:33	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 60 of 66

Xenco

Environment Testing

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QC Summary 672834

### **Talon LPE-Artesia**

Trionyx Frac Pond (Pond)

Analytical Method:	TPH By SV	W8015 M	lod						Pi	rep Meth	od: SW	8015P	
Seq Number:	3137402			]	Matrix:	Soil				Date Pr	ep: 09.1	7.2020	
Parent Sample Id:	672770-002	2		MS San	nple Id:	672770-00	02 S		MS	D Sample	e Id: 672	770-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.2	1000	767	77	770	77	70-135	0	35	mg/kg	09.17.2020 12:27	
Diesel Range Organics (	DRO)	< 50.2	1000	778	78	804	80	70-135	3	35	mg/kg	09.17.2020 12:27	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				8	34		85		70	-135	%	09.17.2020 12:27	
o-Terphenyl				7	/1		76		70	-135	%	09.17.2020 12:27	

Analytical Method:	TPH By S	W8015 M	lod						P	rep Metho	od: SW	8015P	
Seq Number:	3137481				Matrix:	Soil				Date Pr	ep: 09.1	17.2020	
Parent Sample Id:	672834-00	9		MS Sar	nple Id:	672834-00	)9 S		MS	D Sample	e Id: 672	834-009 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	998	824	83	861	86	70-135	4	35	mg/kg	09.17.2020 23:53	
Diesel Range Organics	(DRO)	<49.9	998	906	91	938	94	70-135	3	35	mg/kg	09.17.2020 23:53	
Surrogate					IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1-Chlorooctane				1	05		104		70	-135	%	09.17.2020 23:53	
o-Terphenyl				1	00		97		70	-135	%	09.17.2020 23:53	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3137494 7711602-1-BLK	B	LCS San	Matrix: nple Id:	Solid 7711602-1	1-BKS			rep Metho Date Pro D Sample	ep: 09.1	5035A 17.2020 1602-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.118	118	0.116	116	70-130	2	35	mg/kg	09.17.2020 16:21	
Toluene	< 0.00200	0.100	0.112	112	0.112	112	70-130	0	35	mg/kg	09.17.2020 16:21	
Ethylbenzene	< 0.00200	0.100	0.104	104	0.103	103	71-129	1	35	mg/kg	09.17.2020 16:21	
m,p-Xylenes	< 0.00400	0.200	0.209	105	0.209	105	70-135	0	35	mg/kg	09.17.2020 16:21	
o-Xylene	< 0.00200	0.100	0.103	103	0.104	104	71-133	1	35	mg/kg	09.17.2020 16:21	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	100		1	00		99		70	-130	%	09.17.2020 16:21	
4-Bromofluorobenzene	88		9	92		87		70	-130	%	09.17.2020 16:21	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 61 of 66

Xenco

**Environment Testing** 

🔅 eurofins

### QC Summary 672834

### **Talon LPE-Artesia**

Trionyx Frac Pond (Pond)

Analytical Method:	•	B						Р	rep Meth	Jul .	5035A	
Seq Number:	3137632			Matrix:	Solid				Date Pr	ep: 09.1	8.2020	
MB Sample Id:	7711605-1-BLK		LCS San	nple Id:	7711605-	1-BKS		LCS	D Sample	e Id: 771	1605-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.105	105	0.0937	94	70-130	11	35	mg/kg	09.18.2020 06:51	
Toluene	< 0.00200	0.100	0.102	102	0.0906	91	70-130	12	35	mg/kg	09.18.2020 06:51	
Ethylbenzene	< 0.00200	0.100	0.0940	94	0.0833	83	71-129	12	35	mg/kg	09.18.2020 06:51	
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.168	84	70-135	12	35	mg/kg	09.18.2020 06:51	
o-Xylene	< 0.00200	0.100	0.0939	94	0.0835	84	71-133	12	35	mg/kg	09.18.2020 06:51	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	100		9	8		98		70	)-130	%	09.18.2020 06:51	
4-Bromofluorobenzene	88		8	8		88		70	)-130	%	09.18.2020 06:51	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3137494 672834-009	B		Matrix: nple Id:	Soil 672834-00	)9 S			rep Metho Date Pro D Sample	ep: 09.1	5035A 17.2020 834-009 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.125	125	0.121	120	70-130	3	35	mg/kg	09.17.2020 17:06	
Toluene	< 0.00200	0.100	0.127	127	0.125	124	70-130	2	35	mg/kg	09.17.2020 17:06	
Ethylbenzene	< 0.00200	0.100	0.118	118	0.125	124	71-129	6	35	mg/kg	09.17.2020 17:06	
m,p-Xylenes	< 0.00401	0.200	0.237	119	0.253	126	70-135	7	35	mg/kg	09.17.2020 17:06	
o-Xylene	< 0.00200	0.100	0.115	115	0.123	122	71-133	7	35	mg/kg	09.17.2020 17:06	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	98		99		70	-130	%	09.17.2020 17:06	
4-Bromofluorobenzene			8	37		86		70	-130	%	09.17.2020 17:06	

Analytical Method:	BTEX by EPA 8021	IB						P	rep Meth	od: SW	5035A	
Seq Number:	3137632			Matrix:	Soil				Date Pr	ep: 09.1	18.2020	
Parent Sample Id:	672834-021		MS Sar	nple Id:	672834-02	21 S		MS	D Sample	e Id: 672	834-021 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.120	120	0.123	123	70-130	2	35	mg/kg	09.18.2020 07:36	
Toluene	< 0.00199	0.0996	0.114	114	0.118	118	70-130	3	35	mg/kg	09.18.2020 07:36	
Ethylbenzene	< 0.00199	0.0996	0.104	104	0.109	109	71-129	5	35	mg/kg	09.18.2020 07:36	
m,p-Xylenes	< 0.00398	0.199	0.208	105	0.218	108	70-135	5	35	mg/kg	09.18.2020 07:36	
o-Xylene	< 0.00199	0.0996	0.102	102	0.107	107	71-133	5	35	mg/kg	09.18.2020 07:36	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	8		100		70	-130	%	09.18.2020 07:36	
4-Bromofluorobenzene			8	89		90		70	-130	%	09.18.2020 07:36	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 62 of 66

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9 (17/20/12:30	0	M 54:	09.16.20	Mary.	
	a) Deceiver	MC Relinquished by: (Signature)	Date/Timen C	Deceived by: (Signature)	IM
	rms and conditions beyond the control ly negotiated	by the client if such losses are due to circumstances alyzed. These terms will be enforced unless previous	losses or expenses incurred ibmitted to Xenco, but not an	of Kenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously neocliated	1
		AS BA BE Cd Cr Co Cu Pb Mn Mo Ni Se Ag	m client company to Xenco. Its	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and sub-control of sarvice. Xenco will be itable only for the cost of samples and the samples constitutes a valid purchase order from client company to Xenco. Its affiliates and sub-cost of sarvice.	
l J J I	Mg Mn Mo Ni K Se	Co Cu Fe Pb	Texas 11 Al Sb As	to be analyzed TCLP / SPLP 6010	- 11
		X	X	1 1 Crial 1	Total 200 7 / Roan
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Bill Deron Piect				9:05	< 2-11 < 2-11
Sample Comments			- N K T	9:00 1	T
received by 4:00pm		TE PH	lumb Tota	Matrix Date Time Depth	ID Sample identification
TAT starts the day received by the lab, if				INA I I I I I I I I I I I I I I I I I I	Sample Houster
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DD ADaPT Other:	Deliverables: EDD	pe, com	Ponse talon pe	Emailt	Trinve
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iect:	State of Project:		Address:	-	
Program: UST/PST PRP Brownfields PPC super-	Program: UST/PS	on Energy	Company Name: Devon	R	Address: 408 LITEXAS
-			Bill to: (if different)	74	Company Name: Talon /
		Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701	tlanta,GA (770) 449-8800 T	Pons	Project Manager: Refecce.
Work Order No: 20844772		Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock TX (905) 704 4000	281) 240-4200 Dallas,TX (; EL Paso,TX (915) 585-344	Houston,TX Midland,TX (432) 704-544	
P58CL9			)		
					5

	3:06:00       7.3'         51       7.1'         57       7.2'         57       7.2'         57       7.2'         57       7.2'         57       7.2'         Circle Method(S) and Metal(S) to be analyzed         of service. Xence will be liable on the fellinguishment of samples on	Project Location Sampler's Name: PO #: MPLE RECEIPT Temperature Received Int Cooler Custody Se Sample Custody Se Sample Identifi Sample Identifi	Project Manager: Refuces Pens Company Name: Talon / PE Address: Ho8 L/TEXAS ST Phone: 575 441-0980 Project Name: Trony X Frac Pond
of Xenco. A minimum charge of \$75.00 will be applied to each small not assume any responsibility for any losses or expenses incurred by the client if such losses         Relinquished by: (Signature)         Will Be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be the client if such losses         Will Be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be the client if such losses         Will Be applied to each project by: (Signature)       Date/Wec       Relinquit         Will Be applied to each project by: (Signature)       Date/Wec       Relinquit         Will Be applied to each project by: (Signature)       Date/Wec       Relinquit         Will Be applied by: (Signature)       Bate/Wec       Relinquit         Bate/Wec       These terms will be       Sample submitted to Xenco, be applied by:       Sample submitted to Xenco, be analyzed. These terms will be         Sample submitted to Xenco, be applied to each s	10:50         1-2'           10:55         2-3'           11:00         3-4'           11:10         0-1'           11:15         1-2'           11:15         1-2'           11:15         3-4' </td <td>Rug       Quote #:       Quote #:       Quote #:       Quote #:       Quote #:       Correction Factor       Total Containers       Date       Sampled       Date       Time       Sampled       I0:35       I0:35</td> <td>d ()</td>	Rug       Quote #:       Quote #:       Quote #:       Quote #:       Quote #:       Correction Factor       Total Containers       Date       Sampled       Date       Time       Sampled       I0:35       I0:35	d ()
of Xence. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each project and a charge of \$5 for each sample submitted to Xenco, Its affiliates and subcontractors. It assigns standard terms and conditions         Relinquished by: (Signature)       Recrived by: (Signature)       Reference       Relinquished by: (Signature)       Reference       Relinquished by: (Signature)       Reference       Relinquished by: (Signature)       Reference       Refe	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo	X Total Chlorides X BTEX X TPH I I I I I I I I I I I I I	hain of Custody allas.TX (214) 802-0300 San Antonio 3) 585-3443 Lubbock,TX (806) 794-1 19-8600 Tampa.FL (813) 620-2000 V Devon Energy
and conditions or the control gottated. Beceived by: (Signature) 91/17/2	K Se Ag SiO2 Na	JEST     Preservative Codes       Image: Method Structure     MeOH: Method MeoH: Method Structure       Image: Method Structure     None: NO       HNO3: HN     H2S04: H2       HCL: HL     H2S04: H2       HCL: HL     NaOH: Na       Zn Acetate+ NaOH: Zn     TAT starts the day received by the lab, if received by 4:00pm       TAT starts the day received by 4:00pm     Sample Comments       Sample Comments     Scill Deven Direct	Work Order No: <u>2084977</u> H-5440 <u>689-6701</u> <u>www.xenco.com</u> Page <u>2</u> of <u>3</u> Program: UST/PST PRP Brownfields RRC Superfund State of Project: Reporting:Level III PST/UST TRRP Level IV Deliverables: EDD ADaPT Other:

Final 1.000

6		I oval 200.7 / 6010       200.8 / 6020:       8RCRA       13PPM       Texas 11       Al Sb       As       Ba       Bc       Circle IMethod(s) and Metal(s) to be analyzed       TCLP / SPLP       6010:       8RCRA       13PPM       Texas 11       Al Sb       As       Ba       Bc       Cd       Ca       Cr       Co       Cu       Fe       Pb         Notice: Signature of this document and relinquishment of samples constitutes a valid numbers or activity       TCLP / SPLP 6010:       8RCRA       Sb       As       Ba       Be       Cd       Cr       Co       Cu       Fe       Pb         of service. Xencor with to charment and relinquishment of samples constitutes a valid numbers or activity       St       As       Ba       Be       Cd       Cr       Co       Cu       Pb       Mn       No       No       Se	3-4' ()2:10 ()2:15 3	3-41	1-21 Sail 1/4/20 11:35 0-11 1 X X	Depth	Cooler Custedy Seals: Yes No N/A Correction Factor: Containers: of Containers: Chiconation Containers: Chiconation	Thermometer ID	Temp Blank: Yes No Wet Ice: Yes No	Ronny	Project Location Lea Car h 4 . Routine X cod	Triany Frac Pond (Pond) Turn Around	575 441-0980 Email Foons & 410-1-	City, State ZIP: Artes: NM 2010 Address: Devon Energy	Talon LPE	Midland,TX (432) 704-5440 EL Paso,TX (8 Phoenix,AZ (480) 355-0900 Atlanta,GA (770)	Chain of Custody	
Revised Date 022819 Rev. 2019.1	is and conditions reyond the control regotiated.	K Se Ag SiO2 Na		Bill Deron Hiect		TAT starts the day received by the lab, if received by 4:00pm	NaOH: Na Zn Acetate+ NaOH: Zn	HCL: HL	HNO3: HN H2S04; H2	MeOH: Me	2UEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting:Level II CLevel III CPST//IST CTEPER C.	Program: UST/PST PRP Brownfields RRC Superfund	MMM	704-5440	here of the second	

Final 1.000

## **Eurofins Xenco, LLC**

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

Acceptable Temperature R	ange: 0 - 6 degC
Air and Metal samples Acc	eptable Range: Ambient
Temperature Measuring de	evice used : T_NM_007
ot Checklist	Comments
4	
Yes	
No	
Yes	
Yes	
Yes	
Yes	Samples received in bulk containers.
Yes	
Yes	
Yes	
Yes	
No	
N/A	
	Air and Metal samples Acc Temperature Measuring de of Checklist 4 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 09.17.2020

Checklist reviewed by: Jessica Kramer

Date: 09.18.2020



December 01, 2020

Rebecca Pons Talon Artesia 408 West Texas Ave Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2011B61

RE: Trionyx Frac Pond

Dear Rebecca Pons:

Hall Environmental Analysis Laboratory received 41 sample(s) on 11/24/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

<b>CLIENT:</b>	Talon Artesia		Cl	ient Sample II	): B(	G-1 0'	
Project:	Trionyx Frac Pond		(	Collection Date	e: 11	/18/2020 12:00:00 PM	[
Lab ID:	2011B61-001	Matrix: SOIL		Received Date	e: 11	/24/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analys	t: CAS
Chloride		100	59	mg/Kg	20	11/26/2020 12:34:03 A	M 56667
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analys	t: DJF
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 1:38:24 AN	1 56638
Surr: E	BFB	101	70-130	%Rec	1	11/26/2020 1:38:24 AN	1 56638
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: BRM
Diesel Ra	ange Organics (DRO)	ND	8.6	mg/Kg	1	11/28/2020 2:12:19 PM	1 56641
Motor Oil	I Range Organics (MRO)	ND	43	mg/Kg	1	11/28/2020 2:12:19 PM	1 56641
Surr: E	DNOP	92.0	30.4-154	%Rec	1	11/28/2020 2:12:19 PM	1 56641
EPA MET	HOD 8260B: VOLATILES S	HORT LIST				Analys	t: DJF
Benzene		ND	0.024	mg/Kg	1	11/26/2020 1:38:24 AN	1 56638
Toluene		ND	0.048	mg/Kg	1	11/26/2020 1:38:24 AN	1 56638
Ethylben	zene	ND	0.048	mg/Kg	1	11/26/2020 1:38:24 AN	1 56638
Xylenes,	Total	ND	0.097	mg/Kg	1	11/26/2020 1:38:24 AM	1 56638
Surr: 1	I,2-Dichloroethane-d4	104	70-130	%Rec	1	11/26/2020 1:38:24 AN	1 56638
Surr: 4	1-Bromofluorobenzene	97.4	70-130	%Rec	1	11/26/2020 1:38:24 AN	1 56638
Surr: D	Dibromofluoromethane	111	70-130	%Rec	1	11/26/2020 1:38:24 AN	1 56638
Surr: T	Foluene-d8	91.5	70-130	%Rec	1	11/26/2020 1:38:24 AN	1 56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT:	IENT: Talon Artesia Client Sample ID: BG-2 0'						
Project:	Trionyx Frac Pond		(	Collection Dat	<b>e:</b> 11	/18/2020 12:10:00 PM	
Lab ID:	2011B61-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11	/24/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	CAS
Chloride		75	60	mg/Kg	20	11/26/2020 1:11:17 AM	56670
EPA MET	HOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 2:06:45 AM	56638
Surr: E	BFB	98.8	70-130	%Rec	1	11/26/2020 2:06:45 AM	56638
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM
Diesel Ra	ange Organics (DRO)	16	8.8	mg/Kg	1	11/28/2020 2:36:04 PM	56641
Motor Oil	Range Organics (MRO)	ND	44	mg/Kg	1	11/28/2020 2:36:04 PM	56641
Surr: [	DNOP	93.4	30.4-154	%Rec	1	11/28/2020 2:36:04 PM	56641
EPA MET	HOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF
Benzene		ND	0.024	mg/Kg	1	11/26/2020 2:06:45 AM	56638
Toluene		ND	0.048	mg/Kg	1	11/26/2020 2:06:45 AM	56638
Ethylben	zene	ND	0.048	mg/Kg	1	11/26/2020 2:06:45 AM	56638
Xylenes,	Total	ND	0.096	mg/Kg	1	11/26/2020 2:06:45 AM	56638
Surr: 1	,2-Dichloroethane-d4	94.8	70-130	%Rec	1	11/26/2020 2:06:45 AM	56638
Surr: 4	I-Bromofluorobenzene	101	70-130	%Rec	1	11/26/2020 2:06:45 AM	56638
Surr: E	Dibromofluoromethane	101	70-130	%Rec	1	11/26/2020 2:06:45 AM	56638
Surr: 1	Foluene-d8	88.8	70-130	%Rec	1	11/26/2020 2:06:45 AM	56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 47

**CLIENT:** Talon Artesia

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61 Date Reported: 12/1/2020

Client Sample ID: BG-3 0'
C-II

Project:	Trionyx Frac Pond		(	Collection Date	e: 11	/18/2020 12:20:00 PM	
Lab ID:	2011B61-003	Matrix: SOIL		Received Date	e: 11	/24/2020 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	CAS
Chloride		87	60	mg/Kg	20	11/26/2020 2:13:22 AM	56670
EPA MET	HOD 8015D MOD: GASOLINI	E RANGE				Analyst	DJF
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 2:35:04 AM	56638
Surr: I	BFB	104	70-130	%Rec	1	11/26/2020 2:35:04 AM	56638
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	: CLP
Diesel R	ange Organics (DRO)	ND	8.7	mg/Kg	1	11/25/2020 3:32:46 PM	56641
Motor Oi	I Range Organics (MRO)	ND	44	mg/Kg	1	11/25/2020 3:32:46 PM	56641
Surr: I	ONOP	82.8	30.4-154	%Rec	1	11/25/2020 3:32:46 PM	56641
EPA MET	HOD 8260B: VOLATILES SH	ORT LIST				Analyst	DJF
Benzene		ND	0.024	mg/Kg	1	11/26/2020 2:35:04 AM	56638
Toluene		ND	0.048	mg/Kg	1	11/26/2020 2:35:04 AM	56638
Ethylben	zene	ND	0.048	mg/Kg	1	11/26/2020 2:35:04 AM	56638
Xylenes,	Total	ND	0.096	mg/Kg	1	11/26/2020 2:35:04 AM	56638
Surr:	1,2-Dichloroethane-d4	100	70-130	%Rec	1	11/26/2020 2:35:04 AM	56638
Surr: 4	1-Bromofluorobenzene	99.7	70-130	%Rec	1	11/26/2020 2:35:04 AM	56638
Surr: I	Dibromofluoromethane	104	70-130	%Rec	1	11/26/2020 2:35:04 AM	56638
Surr:	Toluene-d8	94.1	70-130	%Rec	1	11/26/2020 2:35:04 AM	56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	<b>):</b> B(	G-4 0'	
<b>Project:</b> Trionyx Frac Pond		(	Collection Dat	<b>e:</b> 11	/18/2020 12:30:00 PM	
Lab ID: 2011B61-004	Matrix: SOIL		<b>Received Dat</b>	e: 11	/24/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	89	60	mg/Kg	20	11/26/2020 2:50:35 AM	56670
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/26/2020 3:03:22 AM	56638
Surr: BFB	104	70-130	%Rec	1	11/26/2020 3:03:22 AM	56638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	11/25/2020 3:56:41 PM	56641
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 3:56:41 PM	56641
Surr: DNOP	87.1	30.4-154	%Rec	1	11/25/2020 3:56:41 PM	56641
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	11/26/2020 3:03:22 AM	56638
Toluene	ND	0.047	mg/Kg	1	11/26/2020 3:03:22 AM	56638
Ethylbenzene	ND	0.047	mg/Kg	1	11/26/2020 3:03:22 AM	56638
Xylenes, Total	ND	0.094	mg/Kg	1	11/26/2020 3:03:22 AM	56638
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	11/26/2020 3:03:22 AM	56638
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	11/26/2020 3:03:22 AM	56638
Surr: Dibromofluoromethane	107	70-130	%Rec	1	11/26/2020 3:03:22 AM	56638
Surr: Toluene-d8	90.3	70-130	%Rec	1	11/26/2020 3:03:22 AM	56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	): B(	G-5 0'	
Project: Trionyx Frac Pond		(	Collection Dat	e: 11	/18/2020 12:40:00 PM	
Lab ID: 2011B61-005	Matrix: SOIL		<b>Received Dat</b>	e: 11	/24/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	100	60	mg/Kg	20	11/26/2020 3:03:00 AM	56670
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 3:31:42 AM	56638
Surr: BFB	103	70-130	%Rec	1	11/26/2020 3:31:42 AM	56638
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/25/2020 4:20:36 PM	56641
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/25/2020 4:20:36 PM	56641
Surr: DNOP	82.1	30.4-154	%Rec	1	11/25/2020 4:20:36 PM	56641
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	11/26/2020 3:31:42 AM	56638
Toluene	ND	0.048	mg/Kg	1	11/26/2020 3:31:42 AM	56638
Ethylbenzene	ND	0.048	mg/Kg	1	11/26/2020 3:31:42 AM	56638
Xylenes, Total	ND	0.096	mg/Kg	1	11/26/2020 3:31:42 AM	56638
Surr: 1,2-Dichloroethane-d4	97.4	70-130	%Rec	1	11/26/2020 3:31:42 AM	56638
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	11/26/2020 3:31:42 AM	56638
Surr: Dibromofluoromethane	104	70-130	%Rec	1	11/26/2020 3:31:42 AM	56638
Surr: Toluene-d8	91.4	70-130	%Rec	1	11/26/2020 3:31:42 AM	56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	<b>):</b> B(	G-6 0'	
Project: Trionyx Frac Pond		(	Collection Dat	<b>e:</b> 11	/18/2020 12:50:00 PM	
Lab ID: 2011B61-006	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11	/24/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	85	60	mg/Kg	20	11/26/2020 3:15:24 AM	56670
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/26/2020 3:59:58 AM	56638
Surr: BFB	103	70-130	%Rec	1	11/26/2020 3:59:58 AM	56638
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	11/25/2020 4:44:25 PM	56641
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/25/2020 4:44:25 PM	56641
Surr: DNOP	79.1	30.4-154	%Rec	1	11/25/2020 4:44:25 PM	56641
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	11/26/2020 3:59:58 AM	56638
Toluene	ND	0.047	mg/Kg	1	11/26/2020 3:59:58 AM	56638
Ethylbenzene	ND	0.047	mg/Kg	1	11/26/2020 3:59:58 AM	56638
Xylenes, Total	ND	0.095	mg/Kg	1	11/26/2020 3:59:58 AM	56638
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	11/26/2020 3:59:58 AM	56638
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	11/26/2020 3:59:58 AM	56638
Surr: Dibromofluoromethane	103	70-130	%Rec	1	11/26/2020 3:59:58 AM	56638
Surr: Toluene-d8	89.9	70-130	%Rec	1	11/26/2020 3:59:58 AM	56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 47

Hall Environmental Analy	zsis I aboratory. Ir	NC .			Analytical Report Lab Order 2011B61			
Han Environmental Analy	7515 Laboratory, 11				Date Reported: 12/1/2020			
CLIENT: Talon Artesia		Client	t Sample II	<b>D:</b> S-1	6'			
Project: Trionyx Frac Pond		Coll	ection Dat	<b>e:</b> 11/	18/2020 1:00:00 PM	1		
Lab ID: 2011B61-007	Matrix: SOIL	Re	ceived Dat	<b>e:</b> 11/	24/2020 8:00:00 AN	1		
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analy	st: CAS		
Chloride	700	60	mg/Kg	20	11/26/2020 3:27:49 A	M 56670		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 47

Hall Environmental Analy	ysis Laboratory, Ir	ıc.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-008	Matrix: SOIL	001100	ion Dat	<b>e:</b> 11/	8' 18/2020 1:00:00 PM 24/2020 8:00:00 AM	-
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	410	59	mg/Kg	20	Analy 11/26/2020 3:40:13 A	rst: <b>CAS</b> M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 47

Hall Environmental Analy	ysis Laboratory, In	с.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-009	Matrix: SOIL	0011000	on Date	:11/	10' 18/2020 1:00:00 PM 24/2020 8:00:00 AN	-
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	130	60	mg/Kg	20	Analy 11/26/2020 4:17:27 A	st: <b>CAS</b> M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 47

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia		Client	Sample II	<b>D:</b> S-2	2 6'	
<b>Project:</b> Trionyx Frac Pond	Collection Date: 11/18/2020 2:20:00 PM					1
Lab ID: 2011B61-010	Matrix: SOIL	Rec	eived Date	<b>e:</b> 11/	24/2020 8:00:00 AN	1
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CAS
Chloride	880	60	mg/Kg	20	11/26/2020 4:29:52 A	M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 47

s Laboratory, Inc	2.			Lab Order <b>2011B61</b> Date Reported: <b>12/1/2</b>	020
		-			
Matrix: SOIL	0011			10/2020 2120100 1111	
Result	RL Qu	al Units	DF	Date Analyzed	Batch
050				, ,	st: CAS
	Matrix: SOIL	Matrix: SOIL     Rec       Result     RL Quant	Client Sample IE Collection Date Matrix: SOIL Received Date Result RL Qual Units	S Laboratory, Inc. Client Sample ID: S-2 Collection Date: 11/ Matrix: SOIL Received Date: 11/ Result RL Qual Units DF	S Laboratory, Inc. Date Reported: 12/1/2 Client Sample ID: S-2 8' Collection Date: 11/18/2020 2:20:00 PM Matrix: SOIL Received Date: 11/24/2020 8:00:00 AM Result RL Qual Units DF Date Analyzed Analyse

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 47

Hall Environmental Analy	с.		Analytical Report Lab Order 2011B61 Date Reported: 12/1/2020			
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-012	Client Sample ID: S-2 10' Collection Date: 11/18/2020 2:2 Matrix: SOIL Received Date: 11/24/2020 8:0			/18/2020 2:20:00 PM	-	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	360	60	mg/Kg	20	Analy 11/26/2020 4:54:41 A	rst: <b>CAS</b> M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 47
Hall Environmental Analy	ysis Laboratory, In	IC.		Analytical Report Lab Order 2011B61 Date Reported: 12/1/	
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-013	Matrix: SOIL	Colle		<b>D:</b> S-3 6' <b>e:</b> 11/18/2020 3:00:00 PN <b>e:</b> 11/24/2020 8:00:00 AN	-
Analyses	Result			DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	480	60	mg/Kg	Analy 20 11/26/2020 5:07:05	/st: <b>CAS</b> AM 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 47

Hall Environmental Analy	ysis Laboratory, In	c.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	:020
CLIENT: Talon Artesia Project: Trionyx Frac Pond		Client Sa Collect	-		3 8' /18/2020 3:00:00 PM	[
Lab ID: 2011B61-014	Matrix: SOIL	Recei	ved Date	<b>e:</b> 11/	/24/2020 8:00:00 AM	1
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CAS
Chloride	160	59	mg/Kg	20	11/26/2020 5:19:30 A	M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 47

Hall Environmental Analy	ysis Laboratory, In	с.		Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-015	Matrix: SOIL	001100110	n Date: 11	3 10' //18/2020 3:00:00 PN //24/2020 8:00:00 AN	-
Analyses	Result			Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	120	59 n	mg/Kg 20		vst: <b>CAS</b> AM 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 47

Hall Environmental Analy	ysis Laboratory, Ir	ıc.		Analytical Repo Lab Order 2011B6 Date Reported: 12/	1
CLIENT: Talon Artesia Project: Trionyx Frac Pond	M 4 CON	Colle		e: 11/18/2020 3:35:00 1	
Lab ID: 2011B61-016 Analyses	Matrix: SOIL Result			e: 11/24/2020 8:00:00 A DF Date Analyzed	AM Batch
EPA METHOD 300.0: ANIONS Chloride	250	60	mg/Kg	An: 20 11/26/2020 5:44:1	alyst: <b>CAS</b> 9 AM 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 47

Hall Environmental Analy	ysis Laboratory, Ir	nc.		Lal	nalytical Report b Order 2011B61 te Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond	M / L GOU	Coll		<b>e:</b> 11/18/	/2020 3:35:00 PN	-
Lab ID: 2011B61-017 Analyses	Matrix: SOIL Result				/2020 8:00:00 AN	A Batch
EPA METHOD 300.0: ANIONS Chloride	160	60	mg/Kg	20 11	Analy 1/26/2020 5:56:44 A	vst: <b>CAS</b> AM 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 17 of 47

Hall Environmental Analy	zsis I aboratory. Ir	1C			Analytical Report Lab Order 2011B61	
		I <b>L.</b>			Date Reported: 12/1/2	2020
<b>CLIENT:</b> Talon Artesia	Client Sample ID: S-4 10'					
Project: Trionyx Frac Pond		Coll	ection Dat	<b>e:</b> 11/	18/2020 3:35:00 PM	1
Lab ID: 2011B61-018	Matrix: SOIL	Re	ceived Dat	<b>e:</b> 11/	24/2020 8:00:00 AN	Л
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CAS
Chloride	120	60	mg/Kg	20	11/26/2020 6:33:57 A	M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 47

Hall Environmental Analy	ysis Laboratory, In	ic.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-019	Matrix: SOIL	Colle		e: 11/	6' 19/2020 9:00:00 AN 24/2020 8:00:00 AN	-
Analyses	Result				Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	300	60	mg/Kg	20	Analy 11/26/2020 6:46:22 A	vst: <b>CAS</b> M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 47

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond			ample II tion Dat		5 8' /19/2020 9:00:00 AN	1
Lab ID: 2011B61-020	Matrix: SOIL	Recei	ived Dat	<b>e:</b> 11/	/24/2020 8:00:00 AN	1
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					,	st: CAS
Chloride	140	60	mg/Kg	20	11/26/2020 6:58:46 A	M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 47

Hall Environmental Analy	ysis Laboratory, II	nc.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/	
CLIENT: Talon Artesia		Client	Sample I	<b>D:</b> S-5	10'	
Project: Trionyx Frac Pond		Colle	ection Dat	te: 11/	19/2020 9:00:00 AN	Л
Lab ID: 2011B61-021	Matrix: SOIL	Rec	eived Dat	te: 11/	24/2020 8:00:00 AN	А
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: CAS
Chloride	120	60	mg/Kg	20	11/26/2020 7:11:11	M 56670

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 47

Hall Environmental Analy	vsis Laboratory Ji	۱c			Analytical Report Lab Order 2011B61	2020
					Date Reported: 12/1/2	2020
<b>CLIENT:</b> Talon Artesia		Client	t Sample II	<b>D:</b> S-6	5 6'	
Project: Trionyx Frac Pond		Coll	ection Dat	t <b>e:</b> 11/	/19/2020 9:40:00 AN	Л
Lab ID: 2011B61-022	Matrix: SOIL	Re	ceived Dat	t <b>e:</b> 11/	/24/2020 8:00:00 AN	Л
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	rst: <b>JMT</b>
Chloride	1100	60	mg/Kg	20	11/26/2020 12:32:06	AM 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 47

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia			Sample II			
Project:Trionyx Frac PondLab ID:2011B61-023	Matrix: SOIL	00110		te: 11/19/2020 9:40:00 AM te: 11/24/2020 8:00:00 AM		
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	180	60	mg/Kg	20	Analy 11/26/2020 1:09:07 A	st: <b>JMT</b> M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 47

Hall Environmental Analy	zsis I aboratory. Ir	NC .			Analytical Report Lab Order 2011B61		
	7515 Labor ator y, 11	IC.			Date Reported: 12/1/2020		
CLIENT: Talon Artesia		Client	t Sample II	<b>D:</b> S-6	5 10'		
Project: Trionyx Frac Pond		Coll	ection Dat	<b>e:</b> 11/	19/2020 9:40:00 AN	1	
Lab ID: 2011B61-024	Matrix: SOIL	Re	ceived Dat	<b>e:</b> 11/	24/2020 8:00:00 AN	1	
Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	rst: <b>JMT</b>	
Chloride	170	60	mg/Kg	20	11/26/2020 2:10:48 A	M 56671	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 47

Hall Environmental Analysis Laboratory, Inc.				Analytical Report Lab Order 2011B61				
CLIENT: Talon Artesia Project: Trionyx Frac Pond	,010 1240 014001 9 9 11	Client	t Sample II ection Dat	<b>D:</b> S-7	Date Reported: 12/1/2 7 6' 7 9:55:00 AN			
Lab ID: 2011B61-025	Matrix: SOIL	Re	ceived Dat	<b>e:</b> 11/	24/2020 8:00:00 AN	А		
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analy	vst: <b>JMT</b>		
Chloride	720	59	mg/Kg	20	11/26/2020 2:23:08 A	AM 56671		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 25 of 47

Hall Environmental Analy	ıc.		Analytical Repo Lab Order 2011B Date Reported: 12	51	
CLIENT: Talon Artesia Project: Trionyx Frac Pond Lab ID: 2011B61-026	Matrix: SOIL	Colle		<b>D:</b> S-7 8' <b>e:</b> 11/19/2020 9:55:00 <b>e:</b> 11/24/2020 8:00:00	
Analyses	Result	RL Qua	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	560	59	mg/Kg	Ar 20 11/26/2020 2:35:3	nalyst: <b>JMT</b> 30 AM 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 47

Hall Environmental Analy	ic.	Analytical Report Lab Order 2011B61 Date Reported: 12/1/2020				
CLIENT: Talon Artesia Project: Trionyx Frac Pond			Sample II ction Dat		7 10' /19/2020 9:55:00 AN	1
Lab ID: 2011B61-027	Matrix: SOIL	Rece	ived Dat	<b>e:</b> 11/	/24/2020 8:00:00 AN	1
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	530	61	mg/Kg	20	11/26/2020 2:47:51 A	M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 47

Hall Environmental Analy	с.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020	
CLIENT: Talon Artesia Project: Trionyx Frac Pond			Sample II ction Dat		7 12' /19/2020 10:15:00 A	M
Lab ID: 2011B61-028	Matrix: SOIL	00110		••••	/24/2020 8:00:00 AN	
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	150	61	mg/Kg	20	Analy 11/26/2020 3:00:11 A	vst: <b>JMT</b> AM 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 47

Hall Environmental Analy	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020	
CLIENT: Talon Artesia Project: Trionyx Frac Pond			Sample II ction Dat		3 6' /19/2020 10:50:00 A	M
Lab ID: 2011B61-029	Matrix: SOIL	Rece	ived Dat	<b>e:</b> 11/	/24/2020 8:00:00 AN	Л
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	vst: JMT
Chloride	ND	59	mg/Kg	20	11/26/2020 3:12:32 A	M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 47

Hall Environmental Analy	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020		
CLIENT: Talon Artesia Project: Trionyx Frac Pond	Client Sample ID: S-8 8' Collection Date: 11/19/2020 10:50:00 AM						
Lab ID: 2011B61-030	Matrix: SOIL	Recei	ived Dat	<b>e:</b> 11/	/24/2020 8:00:00 AN	Л	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	rst: <b>JMT</b>	
Chloride	ND	60	mg/Kg	20	11/26/2020 3:24:53 A	M 56671	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 47

Hall Environmental Analy	с.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020	
CLIENT: Talon Artesia Project: Trionyx Frac Pond		Client Sar	-		3 10' /19/2020 10:50:00 A	M
Lab ID: 2011B61-031	Matrix: SOIL	control			/24/2020 8:00:00 AN	
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	59	mg/Kg	20	Analy 11/26/2020 3:37:13 A	st: <b>JMT</b> M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 47

Hall Environmental Analysis Laboratory, Inc.				Analytical Report Lab Order 2011B61 Date Reported: 12/1/2020				
CLIENT: Talon Artesia		Client Sa	mple II	<b>D:</b> S-9	9 6'			
Project: Trionyx Frac Pond		Collecti	on Dat	<b>e:</b> 11/	/19/2020 11:30:00 A	М		
Lab ID: 2011B61-032	Matrix: SOIL	Receiv	ed Date	<b>e:</b> 11,	/24/2020 8:00:00 AN	Л		
Analyses	Result	RL Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analy	rst: <b>JMT</b>		
Chloride	ND	59	mg/Kg	20	11/26/2020 3:49:33 A	M 56671		

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 32 of 47

Hall Environmental Analy	ysis Laboratory, In	IC.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020
CLIENT: Talon Artesia Project: Trionyx Frac Pond	Client Sample ID: S-9 8' Collection Date: 11/19/2020 11:30:00 AM					
Lab ID: 2011B61-033 Analyses	Matrix: SOIL     Received Date: 11/24/2020 8:00       Result     RL Qual Units     DF Date Analyz					A Batch
EPA METHOD 300.0: ANIONS Chloride	ND	59	mg/Kg	20	·	rst: <b>JMT</b> M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 33 of 47

Hall Environmental Analy	с.			Analytical Report Lab Order 2011B61 Date Reported: 12/1/2	2020	
CLIENT: Talon Artesia Project: Trionyx Frac Pond			Sample II ction Dat		9 10' /19/2020 11:30:00 A	M
Lab ID: 2011B61-034	Matrix: SOIL	Rec	eived Dat	e: 11	/24/2020 8:00:00 AN	Л
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	61	mg/Kg	20	Analy 11/26/2020 4:38:56 A	vst: <b>JMT</b> M 56671

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 34 of 47

**Analytical Report** Lab Order 2011B61

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/1/2020

	_				-			
CLIENT: Talon Artesia		Client Sample ID: S-10 0-1'						
<b>Project:</b> Trionyx Frac Pond		(	Collection Dat	<b>e:</b> 11	/19/2020 12:20:00 PM			
Lab ID: 2011B61-035	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11	/24/2020 8:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: JMT		
Chloride	180	60	mg/Kg	20	11/26/2020 4:51:17 AM	56671		
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/26/2020 4:28:13 AM	56638		
Surr: BFB	102	70-130	%Rec	1	11/26/2020 4:28:13 AM	56638		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: CLP		
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/25/2020 5:08:17 PM	56641		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 5:08:17 PM	56641		
Surr: DNOP	76.3	30.4-154	%Rec	1	11/25/2020 5:08:17 PM	56641		
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst	DJF		
Benzene	ND	0.025	mg/Kg	1	11/26/2020 4:28:13 AM	56638		
Toluene	ND	0.050	mg/Kg	1	11/26/2020 4:28:13 AM	56638		
Ethylbenzene	ND	0.050	mg/Kg	1	11/26/2020 4:28:13 AM	56638		
Xylenes, Total	ND	0.10	mg/Kg	1	11/26/2020 4:28:13 AM	56638		
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	11/26/2020 4:28:13 AM	56638		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	11/26/2020 4:28:13 AM	56638		

106

88.8

70-130

70-130

%Rec

%Rec

1

1

11/26/2020 4:28:13 AM 56638

11/26/2020 4:28:13 AM 56638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 35 of 47

Surr: Dibromofluoromethane

Surr: Toluene-d8

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia	Client Sample ID: S-10 2'						
Project: Trionyx Frac Pond	Collection Date: 11/19/2020 12:20:00 PM						
Lab ID: 2011B61-036	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11,	/24/2020 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT	
Chloride	78	60	mg/Kg	20	11/26/2020 5:03:37 AM	56671	
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	DJF	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/26/2020 4:56:31 AM	56638	
Surr: BFB	101	70-130	%Rec	1	11/26/2020 4:56:31 AM	56638	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/25/2020 5:31:59 PM	56641	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/25/2020 5:31:59 PM	56641	
Surr: DNOP	81.7	30.4-154	%Rec	1	11/25/2020 5:31:59 PM	56641	
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	DJF	
Benzene	ND	0.023	mg/Kg	1	11/26/2020 4:56:31 AM	56638	
Toluene	ND	0.047	mg/Kg	1	11/26/2020 4:56:31 AM	56638	
Ethylbenzene	ND	0.047	mg/Kg	1	11/26/2020 4:56:31 AM	56638	
Xylenes, Total	ND	0.093	mg/Kg	1	11/26/2020 4:56:31 AM	56638	
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	11/26/2020 4:56:31 AM	56638	
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	11/26/2020 4:56:31 AM	56638	
Surr: Dibromofluoromethane	108	70-130	%Rec	1	11/26/2020 4:56:31 AM	56638	
Surr: Toluene-d8	89.4	70-130	%Rec	1	11/26/2020 4:56:31 AM	56638	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 36 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	D: S-	10 3'				
Project: Trionyx Frac Pond		(	<b>Collection Dat</b>	<b>e:</b> 11	/19/2020 12:20:00 PM	[			
Lab ID: 2011B61-037	Matrix: SOIL		<b>Received Date:</b> 11/24/2020 8:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	: JMT			
Chloride	98	60	mg/Kg	20	11/26/2020 5:15:58 AN	56671			
EPA METHOD 8015D MOD: GA	SOLINE RANGE				Analys	: DJF			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 5:24:46 AN	56638			
Surr: BFB	102	70-130	%Rec	1	11/26/2020 5:24:46 AM	56638			
EPA METHOD 8015M/D: DIESE	L RANGE ORGANICS				Analys	: CLP			
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	11/25/2020 5:55:39 PM	56641			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/25/2020 5:55:39 PN	56641			
Surr: DNOP	89.2	30.4-154	%Rec	1	11/25/2020 5:55:39 PM	1 56641			
EPA METHOD 8260B: VOLATIL	ES SHORT LIST				Analys	: DJF			
Benzene	ND	0.024	mg/Kg	1	11/26/2020 5:24:46 AN	56638			
Toluene	ND	0.048	mg/Kg	1	11/26/2020 5:24:46 AN	56638			
Ethylbenzene	ND	0.048	mg/Kg	1	11/26/2020 5:24:46 AN	56638			
Xylenes, Total	ND	0.096	mg/Kg	1	11/26/2020 5:24:46 AM	56638			
Surr: 1,2-Dichloroethane-d4	96.2	70-130	%Rec	1	11/26/2020 5:24:46 AN	56638			
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	11/26/2020 5:24:46 AN	56638			
Surr: Dibromofluoromethane	101	70-130	%Rec	1	11/26/2020 5:24:46 AN	56638			
Surr: Toluene-d8	90.3	70-130	%Rec	1	11/26/2020 5:24:46 AN	56638			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 37 of 47

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	<b>D:</b> S-	10 4'				
<b>Project:</b> Trionyx Frac Pond		(	Collection Date	<b>e:</b> 11	/19/2020 12:20:00 PM				
Lab ID: 2011B61-038	Matrix: SOIL	<b>Received Date:</b> 11/24/2020 8:00:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	JMT			
Chloride	130	60	mg/Kg	20	11/26/2020 5:28:19 AM	56671			
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	DJF			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/26/2020 5:53:04 AM	56638			
Surr: BFB	102	70-130	%Rec	1	11/26/2020 5:53:04 AM	56638			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	11/25/2020 6:19:16 PM	56641			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/25/2020 6:19:16 PM	56641			
Surr: DNOP	85.7	30.4-154	%Rec	1	11/25/2020 6:19:16 PM	56641			
EPA METHOD 8260B: VOLATILES SHOR	RT LIST				Analyst	DJF			
Benzene	ND	0.024	mg/Kg	1	11/26/2020 5:53:04 AM	56638			
Toluene	ND	0.049	mg/Kg	1	11/26/2020 5:53:04 AM	56638			
Ethylbenzene	ND	0.049	mg/Kg	1	11/26/2020 5:53:04 AM	56638			
Xylenes, Total	ND	0.098	mg/Kg	1	11/26/2020 5:53:04 AM	56638			
Surr: 1,2-Dichloroethane-d4	99.5	70-130	%Rec	1	11/26/2020 5:53:04 AM	56638			
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	11/26/2020 5:53:04 AM	56638			
Surr: Dibromofluoromethane	103	70-130	%Rec	1	11/26/2020 5:53:04 AM	56638			
Surr: Toluene-d8	90.1	70-130	%Rec	1	11/26/2020 5:53:04 AM	56638			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

Page 38 of 47

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia	Client Sample ID: S-10 6'									
<b>Project:</b> Trionyx Frac Pond	<b>Collection Date:</b> 11/19/2020 12:40:00 PM									
Lab ID: 2011B61-039	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 11	/24/2020 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch					
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>					
Chloride	250	60	mg/Kg	20	11/26/2020 5:40:39 AM 56671					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM					
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/28/2020 2:31:14 PM 56648					
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/28/2020 2:31:14 PM 56648					
Surr: DNOP	98.8	30.4-154	%Rec	1	11/28/2020 2:31:14 PM 56648					
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/25/2020 10:28:33 PM 56645					
Surr: BFB	89.3	75.3-105	%Rec	1	11/25/2020 10:28:33 PM 56645					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.025	mg/Kg	1	11/25/2020 10:28:33 PM 56645					
Toluene	ND	0.049	mg/Kg	1	11/25/2020 10:28:33 PM 56645					
Ethylbenzene	ND	0.049	mg/Kg	1	11/25/2020 10:28:33 PM 56645					
Xylenes, Total	ND	0.099	mg/Kg	1	11/25/2020 10:28:33 PM 56645					
Surr: 4-Bromofluorobenzene	99.0	80-120	%Rec	1	11/25/2020 10:28:33 PM 56645					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Page 39 of 47

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	D: S-	10 8'					
Project: Trionyx Frac Pond		(	Collection Dat	<b>e:</b> 11	/19/2020 12:40:00 PM					
Lab ID: 2011B61-040	Matrix: SOIL	<b>Received Date:</b> 11/24/2020 8:00:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch					
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>					
Chloride	150	59	mg/Kg	20	11/26/2020 5:53:01 AM 56671					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: BRM					
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/28/2020 2:40:56 PM 56648					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/28/2020 2:40:56 PM 56648					
Surr: DNOP	100	30.4-154	%Rec	1	11/28/2020 2:40:56 PM 56648					
EPA METHOD 8015D: GASOLINE RANG	<b>GE</b>				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/25/2020 11:38:48 PM 56645					
Surr: BFB	88.4	75.3-105	%Rec	1	11/25/2020 11:38:48 PM 56645					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.024	mg/Kg	1	11/25/2020 11:38:48 PM 56645					
Toluene	ND	0.048	mg/Kg	1	11/25/2020 11:38:48 PM 56645					
Ethylbenzene	ND	0.048	mg/Kg	1	11/25/2020 11:38:48 PM 56645					
Xylenes, Total	ND	0.096	mg/Kg	1	11/25/2020 11:38:48 PM 56645					
Surr: 4-Bromofluorobenzene	96.9	80-120	%Rec	1	11/25/2020 11:38:48 PM 56645					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 40 of 47

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2011B61

Date Reported: 12/1/2020

CLIENT: Talon Artesia		Cl	ient Sample II	<b>):</b> S-	10 10'
Project: Trionyx Frac Pond		(	Collection Date	e: 11	/19/2020 12:40:00 PM
Lab ID: 2011B61-041	Matrix: SOIL		/24/2020 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	140	59	mg/Kg	20	11/26/2020 6:05:22 AM 56671
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/28/2020 2:50:38 PM 56648
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/28/2020 2:50:38 PM 56648
Surr: DNOP	99.4	30.4-154	%Rec	1	11/28/2020 2:50:38 PM 56648
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2020 12:48:45 AM 56645
Surr: BFB	88.2	75.3-105	%Rec	1	11/26/2020 12:48:45 AM 56645
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/26/2020 12:48:45 AM 56645
Toluene	ND	0.048	mg/Kg	1	11/26/2020 12:48:45 AM 56645
Ethylbenzene	ND	0.048	mg/Kg	1	11/26/2020 12:48:45 AM 56645
Xylenes, Total	ND	0.097	mg/Kg	1	11/26/2020 12:48:45 AM 56645
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	11/26/2020 12:48:45 AM 56645

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL

Reporting Limit

Page 41 of 47

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Sample ID:         MB-56671         SampType:         mblk         TestCode:         EPA Method 300.0:         Anons           Client ID:         PPS         Batch ID:         56671         RunNo:         73652         Inits:         mg/kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chioride         ND         1.5         Sample ID:         LCS-56671         SampType:         Ics         TestCode:         EPA Method 300.0:         Anolos           Client ID:         LCS-56671         SampType:         Ics         TestCode:         EPA Method 300.0:         Anolos           Client ID:         LCSS         Batch ID:         56671         RunNo:         73652         TestCode:         EPA Method 300.0:         Anolyte           Chiorde         14         1.5         15.00         95.5         90         110         Qual           Chiorde         14         1.5         1500         955         90         110         Qual           Sample ID:         MB-56667         SampType:         Batch ID:         56667         RunNo:         73654         Prep Date:	Client:	Talon Ar	tesia								
Client ID:       PBS       Batch ID:       56671       RunNo:       73652         Prep Date:       11/25/2020       SeqNo:       2595726       Units:       mg/Kg         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Chioride       ND       1.5       TestCode:       EPA Method       300.0:       Anolysis       Qual         Client ID:       LCS-56671       Sampte ID:       MSS       Batch ID:       56671       RunNo:       73652         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Chioride       11/25/2020       Analysis       Date:       11/26/2020       SeqNo:       259522       Units:       mg/Kg         Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Chioride       11/25/2020       Analyte       Result       POL       SPK value       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit	Project:	Trionyx l	Frac Pond								
Prep Date:         11/25/2020         Analysis Date:         11/25/2020         SeqNo:         2595726         Units:         mg/kg           Analyse         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chiorde         ND         1.5         TestCode:         EPA Method 300.0:         Anions           Sample ID:         LCS-56671         SampType:         Ics         TestCode:         EPA Method 300.0:         Anions           Client ID:         LCSS         Batch ID:         56571         RunNo:         73652         Units:         mg/kg           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chioride         14         1.5         15.00         95.5         90         110         Sample ID:         Method 300.0: Anions         Enditation           Client ID:         PBS         Batch ID:         56667         RunNo:         73654         Feasult         POL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual         Chioride	Sample ID:	MB-56671	SampType:	mblk	Tes	tCode: EF	PA Method	300.0: Anions	S		
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5         Sample ID:       LCS-56671       SampType:       Its       TestCode:       EPA Method 300.0: Anions         Client ID:       LCSS       Batch ID:       56671       RunNo:       73652         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595727       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       14       1.5       15.00       95.5       90       110         Sample ID:       MB-56667       SampType:       mblk       TestCode:       EPA Method 300.0: Anions         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5       TestCode:       EPA Method 300.0: Anions          Analyte       Result       P	Client ID:	PBS	Batch ID:	56671	F	RunNo: 7	3652				
Chloride         ND         1.5           Sample ID: LCS-56671         SampType: Ics         TestCode: EPA Method 300.0: Anions           Client ID: LCSS         Batch ID: 56671         RunNo: 73652           Prep Date:         11/25/2020         Analysis Date:         11/26/2020           Analyte         Result         POL         SPK value         SPK value         SPK Value           Chloride         14         1.5         15.00         0         95.5         90         110           Sample ID: MB-56667         SampType: mblk         TestCode: EPA Method 300.0: Anions         Client ID: PBS         Batch ID: 56667         RunNo: 73654           Prep Date:         11/25/2020         Analysis Date:         11/25/2020         SeqNo: 2595922         Units: mg/Kg           Analyte         Result         POL         SPK value         SPK value         SPK value         SeqNo: 2595923         Units: mg/Kg           Analyte         Result         POL         SPK value         SPK value         SPK value         SPK value         SPK value         SPG value         SPG value         Analysis           Client ID:         LCS5         Batch ID:         56667         RunNo: 73654         Prep Date:         11/25/2020         Analysis Date:	Prep Date:	11/25/2020	Analysis Date:	11/26/2020	S	SeqNo: 2	595726	Units: mg/K	g		
Sample ID:         LCS-56671         SampType:         TestCode:         EPA Method 300.0:         Anions           Client ID:         LCSS         Batch ID:         56671         RunNo:         73652           Prep Date:         11/25/2020         Analysis Date:         11/25/2020         SeqNo:         2595727         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK value         SPK value         SPS 5         90         110         Qual           Chioride         14         1.5         15.00         0         95.5         90         110         Qual           Sample ID:         MB-56667         SampType:         mblk         TestCode:         EPA Method 300.0: Anions         Client ID:         PBS         Batch ID:         56667         RunNo:         73654           Prep Date:         11/25/2020         Analysis Date:         11/25/2020         SeqNo:         2595922         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chioride         ND         1.5         Sample ID:         LCS-56667					SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:       LCSS       Batch ID:       56671       RunNo:       73652         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595727       Units:       mg/Kg         Analyte       Result       PQL       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPD Init       Qual         Chioride       14       1.5       15.00       0       95.5       90       110       Qual         Sample ID:       MB-56667       SampType:       mblk       TestCode:       EPA Method       30.0: Anions         Client ID:       PBS       Batch ID:       56667       RunNo:       73654       PDI.init       Qual         Analyte       Result       PQL       SPK ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLimit       Qual         Chioride       ND       1.5       TestCode:       EPA Method       30.0: Anions       Client ID:       GampType:       II/25/2020       SeqNo:       2595923       Units:       mg/Kg         Analyte       Result       PQL       SPK ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLinit       Qual         Chiorid	Chloride		ND	1.5							
Prep Date:         11/25/2020         Analysis Date:         11/26/2020         SeqNo:         2595727         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         14         1.5         15.00         0         95.5         90         110	Sample ID:	LCS-56671	SampType:	lcs	Tes	tCode: EF	PA Method	300.0: Anions	6		
Analyte         Result         PQL         SPK value         SPK ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         14         1.5         15.00         0         95.5         90         110         Interval         Gual           Sample ID:         MB-56667         SampType:         mblk         TestCode:         EPA Method 300.0: Anions         Interval         Interval         Interval         Gual           Client ID:         PPS         Batch ID:         56667         RunNo:         73654         Prep Date:         11/25/2020         SeqNo:         2595922         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         ND         1.5         Sample ID:         LCS-56667         SampType:         TestCode:         EPA Method 300.0: Anions         Interval         Mal           Client ID:         LCSS         Batch ID:         56667         RunNo:         73654         Prep Date:         11/25/2020         SeqNo:         2595952         Units:         mg/Kg	Client ID:	LCSS	Batch ID:	56671	F	RunNo: 7	3652				
Chloride         14         1.5         15.00         0         95.5         90         110           Sample ID:         MB-56667         SampType:         mblk         TestCode:         EPA Method 300.0:         Anions           Client ID:         PBS         Batch ID:         56667         RunNo:         73654           Prep Date:         11/25/2020         Analysis Date:         11/25/2020         SeqNo:         2595922         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         ND         1.5         Sample ID:         LCS-56667         SampType:         Ics         TestCode:         EPA Method 300.0:         Anions           Client ID:         LCSS         Batch ID:         56667         RunNo:         73654           Prep Date:         11/25/2020         Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         14         1.5         15.00         95.9         90         110 <t< th=""><th>Prep Date:</th><th>11/25/2020</th><th>Analysis Date:</th><th>11/26/2020</th><th>S</th><th>SeqNo: 2</th><th>595727</th><th>Units: mg/K</th><th>g</th><th></th><th></th></t<>	Prep Date:	11/25/2020	Analysis Date:	11/26/2020	S	SeqNo: 2	595727	Units: mg/K	g		
Sample ID:       MB-56667       SampType:       mblk       TestCode:       EPA Method 300.0:       Anions         Client ID:       PBS       Batch ID:       56667       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo:       2595922       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chioride       ND       1.5	Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:       PBS       Batch ID:       56667       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo:       2595922       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chioride       ND       1.5       TestCode:       EPA Method 300.0: Anions                      %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual          Client ID:       LCSS       Batch ID:       56667       RunNo:       73654	Chloride		14	1.5 15.00	0	95.5	90	110			
Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo:       2595922       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5         Sample ID:       LCS-56667       SampType:       Ics       TestCode:       EPA Method 300.0: Anions            Value       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Glient ID:       LCSS       Batch ID:       56667       RunNo:       73654	Sample ID:	MB-56667	SampType:	mblk	Tes	tCode: EF	PA Method	300.0: Anions	6		
Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Chloride       ND       1.5       .5	Client ID:	PBS	Batch ID:	56667	F	RunNo: 7:	3654				
Chloride       ND       1.5         Sample ID: LCS-56667       SampType: Ics       TestCode: EPA Method 300.0: Anions         Client ID:       LCSS       Batch ID: 56667       RunNo: 73654         Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo: 2595923       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       14       1.5       15.00       0       95.9       90       110       10         Sample ID:       MB-56670       SampType: mblk       TestCode: EPA Method 300.0: Anions       Client ID:       Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo: 2595952       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5       SampType: ICs       TestCode: EPA Method 300.0: Anions       Inits: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual </th <th>Prep Date:</th> <th>11/25/2020</th> <th>Analysis Date:</th> <th>11/25/2020</th> <th>S</th> <th>SeqNo: 2</th> <th>595922</th> <th>Units: mg/K</th> <th>g</th> <th></th> <th></th>	Prep Date:	11/25/2020	Analysis Date:	11/25/2020	S	SeqNo: 2	595922	Units: mg/K	g		
Sample ID:       LCS-56667       SampType:       Ics       TestCode:       EPA Method       300.0:       Anions         Client ID:       LCSS       Batch ID:       56667       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo:       2595923       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       14       1.5       15.00       0       95.9       90       110       10         Sample ID:       MB-56670       SampType:       mblk       TestCode:       EPA Method       300.0:       Anions         Client ID:       PBS       Batch ID:       56670       RunNo:       73654            Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595952       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5	Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:       LCSS       Batch ID:       56667       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/25/2020       SeqNo:       2595923       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       14       1.5       15.00       0       95.9       90       110       10       10         Sample ID:       MB-56670       SampType:       mblk       TestCode:       EPA Method 300.0: Anions       10 <td< th=""><th>Chloride</th><th></th><th>ND</th><th>1.5</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Chloride		ND	1.5							
Prep Date:       11/25/2020       SeqNo:       2595923       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       14       1.5       15.00       0       95.9       90       110       100         Sample ID:       MB-56670       SampType:       mblk       TestCode:       EPA Method       300.0:       Anions         Client ID:       PBS       Batch ID:       56670       RunNo:       73654       Vinits:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5       SampType:       Ics       TestCode:       EPA Method       300.0:       Anions         Client ID:       LCSS       Batch ID:       56670       RunNo:       73654       Vinits:       mg/Kg         Prep Date:       11/25/202	Sample ID:	LCS-56667	SampType:	lcs	Tes	tCode: EF	PA Method	300.0: Anions	s		
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualChloride141.515.00095.990110Sample ID:MB-56670SampType:mblkTestCode:EPA Method 300.0:AnionsClient ID:PBSBatch ID:56670RunNo:73654Prep Date:11/25/2020Analysis Date:11/26/2020SeqNo:2595952Units:mg/KgAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualChlorideND1.5	Client ID:	LCSS	Batch ID:	56667	F	RunNo: 7	3654				
Chloride       14       1.5       15.00       0       95.9       90       110         Sample ID: MB-56670       SampType: mblk       TestCode: EPA Method 300.0: Anions         Client ID:       PBS       Batch ID:       56670       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595952       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5	Prep Date:	11/25/2020	Analysis Date:	11/25/2020	S	SeqNo: 2	595923	Units: mg/K	g		
Sample ID:         MB-56670         SampType:         mblk         TestCode:         EPA Method         300.0:         Anions           Client ID:         PBS         Batch ID:         56670         RunNo:         73654           Prep Date:         11/25/2020         Analysis Date:         11/26/2020         SeqNo:         2595952         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Chloride         ND         1.5         TestCode:         EPA Method         300.0:         Anions           Sample ID:         LCS-56670         SampType:         Ics         TestCode:         EPA Method         300.0:         Anions           Client ID:         LCSS         Batch ID:         56670         RunNo:         73654         Frep Date:         11/25/2020         Analysis Date:         11/26/2020         SeqNo:         2595953         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:       PBS       Batch ID:       56670       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595952       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Chloride       ND       1.5       TestCode:       EPA Method       300.0:       Anions         Sample ID:       LCSS       Batch ID:       56670       RunNo:       TestCode:       EPA Method       300.0:       Anions         Client ID:       LCSS       Batch ID:       56670       RunNo:       73654           Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595953       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD RPDLimit       Qual	Chloride		14	1.5 15.00	0	95.9	90	110			
Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595952       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual         Chloride       ND       1.5       TestCode:       EPA Method       300.0:       Anions         Sample ID:       LCSS       Batch       ID:       56670       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595953       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       % REC       LowLimit       HighLimit       % RPD       RPDLimit       Qual	Sample ID:	MB-56670	SampType:	mblk	Tes	tCode: EF	PA Method	300.0: Anions	6		
Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Chloride       ND       1.5       TestCode:       EPA Method 300.0: Anions       Image: Composition of the second	Client ID:	PBS	Batch ID:	56670	F	RunNo: 7:	3654				
Chloride       ND       1.5         Sample ID: LCS-56670       SampType: Ics       TestCode: EPA Method 300.0: Anions         Client ID:       LCSS       Batch ID:       56670         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595953       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Prep Date:	11/25/2020	Analysis Date:	11/26/2020	5	SeqNo: 2	595952	Units: mg/K	g		
Sample ID:       LCS-56670       SampType:       Ics       TestCode:       EPA Method       300.0:       Anions         Client ID:       LCSS       Batch ID:       56670       RunNo:       73654         Prep Date:       11/25/2020       Analysis Date:       11/26/2020       SeqNo:       2595953       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual	Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:         LCSS         Batch ID:         56670         RunNo:         73654           Prep Date:         11/25/2020         Analysis Date:         11/26/2020         SeqNo:         2595953         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Chloride		ND	1.5							
Client ID:         LCSS         Batch ID:         56670         RunNo:         73654           Prep Date:         11/25/2020         Analysis Date:         11/26/2020         SeqNo:         2595953         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Sample ID:	LCS-56670	SampType:	lcs	Tes	tCode: El	PA Method	300.0: Anions	5		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Client ID:	LCSS			F	RunNo: 7:	3654				
	Prep Date:	11/25/2020	Analysis Date:	11/26/2020	S	SeqNo: 2	595953	Units: mg/K	g		
Chloride 14 1.5 15.00 0 94.9 90 110	Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Chloride		14	1.5 15.00	0	94.9	90	110			

### Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 42 of 47

2011B61

01-Dec-20

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Talon A Project: Trionyx	rtesia Frac Pond								
Sample ID: MB-56641	SampType:	MBLK	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID:	56641	R	RunNo: <b>73632</b>					
Prep Date: 11/24/2020	Analysis Date:	11/25/2020	S	eqNo: 2	594887	Units: <b>mg/K</b>	g		
Analyte	Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	9.4	10.00		94.2	30.4	154			
Sample ID: LCS-56641	SampType:	LCS	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	56641	R	unNo: 73	3632				
Prep Date: 11/24/2020	Analysis Date:	11/25/2020	S	eqNo: 2	594891	Units: <b>mg/K</b>	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10 50.00	0	92.5	70	130			
Surr: DNOP	4.6	5.000		91.1	30.4	154			
Sample ID: LCS-56648	SampType:	LCS	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	56648	R	unNo: 73	3643				
Prep Date: 11/25/2020	Analysis Date:	11/28/2020	S	eqNo: 2	595548	Units: <b>mg/K</b>	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10 50.00	0	96.4	70	130			
Surr: DNOP	5.0	5.000		101	30.4	154			
Sample ID: MB-56648	SampType:	MBLK	Test	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID:	56648	R	unNo: 73	3643				
Prep Date: 11/25/2020	Analysis Date:	11/28/2020	S	eqNo: 2	595550	Units: <b>mg/K</b>	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	9.4	10.00		94.3	30.4	154			

### Qualifiers:

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- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 43 of 47

2011B61

01-Dec-20

WO#:

Talon Artesia

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Trionyx	Frac Pond									
Sample ID: mb-56645	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: 56	645	RunNo: <b>73605</b>						
Prep Date: 11/24/2020	Analysis D	ate: 11	/25/2020	S	eqNo: 2	594783	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 910	5.0	1000		90.6	75.3	105			
Sample ID: Ics-56645	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	n ID: 56	645	F	unNo: 7	3605				
Prep Date: 11/24/2020	Analysis D	ate: 11	/25/2020	S	eqNo: 2	594784	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.9	72.5	106			
Surr: BFB	970		1000		97.4	75.3	105			
Sample ID: 2011b61-039ams	s SampT	ype: <b>MS</b>	3	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Sample ID: 2011b61-039ams Client ID: S-10 6'		ype: MS			tCode: El		8015D: Gaso	oline Rang	e	
		n ID: 560	645	F		3605	8015D: Gaso Units: mg/F	Ū	e	
Client ID: S-10 6'	Batch	n ID: 560	645  /25/2020	F	tunNo: <b>7</b> : SeqNo: <b>2</b> :	3605		Ū	e RPDLimit	Qual
Client ID: <b>S-10 6'</b> Prep Date: <b>11/24/2020</b> Analyte	Batch Analysis D	n ID: <b>56</b> 0 Pate: <b>11</b>	645  /25/2020	ਜ 2	tunNo: <b>7</b> : SeqNo: <b>2</b> :	3605 594786	Units: <b>mg/ł</b>	۲ (g		Qual
Client ID: S-10 6' Prep Date: 11/24/2020 Analyte	Batch Analysis D Result	n ID: 560 Pate: 11 PQL	645 1/25/2020 SPK value	F S SPK Ref Val	2unNo: <b>7</b> 3eqNo: <b>2</b> %REC	3605 594786 LowLimit	Units: <b>mg/ł</b> HighLimit	۲ (g		Qual
Client ID: <b>S-10 6'</b> Prep Date: <b>11/24/2020</b> Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result 25 960	n ID: 560 Pate: 11 PQL	645 //25/2020 SPK value 23.99 959.7	F S SPK Ref Val 0	2unNo: 7 6eqNo: 2 %REC 104 100	3605 594786 LowLimit 61.3 75.3	Units: <b>mg/k</b> HighLimit 114	رg %RPD	RPDLimit	Qual
Client ID: <b>S-10 6'</b> Prep Date: <b>11/24/2020</b> Analyte Gasoline Range Organics (GRO) Surr: BFB	Batch Analysis D Result 25 960 sd SampT	n ID: 560 pate: 11 PQL 4.8	645 1/25/2020 SPK value 23.99 959.7	F S SPK Ref Val 0 Tes	2unNo: 7 6eqNo: 2 %REC 104 100	3605 594786 LowLimit 61.3 75.3 PA Method	Units: <b>mg/k</b> HighLimit 114 105	رg %RPD	RPDLimit	Qual
Client ID: S-10 6' Prep Date: 11/24/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2011b61-039ams	Batch Analysis D Result 25 960 sd SampT	PQL 4.8 7ype: MS	645 1/25/2020 SPK value 23.99 959.7 SD 645	F S SPK Ref Val 0 Tes F	2unNo: 7: SeqNo: 2: %REC 104 100 tCode: El	3605 594786 LowLimit 61.3 75.3 PA Method 3605	Units: <b>mg/k</b> HighLimit 114 105	(g %RPD Dine Rang	RPDLimit	Qual
Client ID: S-10 6' Prep Date: 11/24/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2011b61-039ams Client ID: S-10 6'	Batch Analysis D Result 25 960 sd SampT Batch	PQL 4.8 7ype: MS	645 25/2020 SPK value 23.99 959.7 645 25/2020	F S SPK Ref Val 0 Tes F	2unNo: 7: SeqNo: 2: %REC 104 100 tCode: EI 2unNo: 7: SeqNo: 2:	3605 594786 LowLimit 61.3 75.3 PA Method 3605 594787	Units: <b>mg//</b> HighLimit 114 105 <b>8015D: Gasc</b>	(g %RPD Dine Rang	RPDLimit	Qual
Client ID: S-10 6' Prep Date: 11/24/2020 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2011b61-039ams Client ID: S-10 6' Prep Date: 11/24/2020	Batch Analysis D Result 25 960 sd SampT Batch Analysis D	PQL 4.8 Yype: MS 1D: 560 DD: 560 Pate: 11	645 25/2020 SPK value 23.99 959.7 645 25/2020	F SPK Ref Val 0 Tes F S	2unNo: 7: SeqNo: 2: %REC 104 100 tCode: EI 2unNo: 7: SeqNo: 2:	3605 594786 LowLimit 61.3 75.3 PA Method 3605 594787	Units: mg/k HighLimit 114 105 8015D: Gaso Units: mg/k	(g %RPD Dine Rang	RPDLimit e	

### Qualifiers:

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Released to Imaging: 9/20/2022 12:56:55 PM

- B Analyte detected in the associated Method Blank
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- RL Reporting Limit

Page 44 of 47

WO#: 2011B61

01-Dec-20

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2011B61
	01 D., 10

01-Dec-20

Client: Talon Art Project: Trionyx F										
Sample ID: mb-56645	Samp <sup>-</sup>	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 56	645	F	RunNo: 73	3605				
Prep Date: 11/24/2020	Analysis [	Date: 11	/25/2020	S	SeqNo: 2	594832	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Sample ID: LCS-56645	Samp <sup>-</sup>	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 56	645	F	RunNo: 73	3605				
Prep Date: 11/24/2020	Analysis [	Date: 11	/25/2020	S	SeqNo: 2	594833	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			
Sample ID: 2011b61-040ams	Samp	Туре: МS	3	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: S-10 8'	Batc	h ID: 56	645	F	RunNo: 73	3605				
Prep Date: 11/24/2020	Analysis [	Date: 11	/26/2020	5	SeqNo: 2	594836	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9823	0	100	76.3	120			
Toluene	1.0	0.049	0.9823	0.009456	104	78.5	120			
Ethylbenzene	1.1	0.049	0.9823	0	107	78.1	124			
Xylenes, Total	3.1	0.098	2.947	0	106	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9823		99.5	80	120			
Sample ID: 2011b61-040amsd	I Samp <sup>-</sup>	Type: MS	SD	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: S-10 8'	Batc	h ID: 56	645	F	RunNo: 73	3605				
Prep Date: 11/24/2020	Analysis [	Date: 11	/26/2020	5	SeqNo: 2	594837	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	102	76.3	120	2.37	20	
	4.0	0.050	0.9921	0.009456	104	78.5	120	0.682	20	
Toluene	1.0	0.000								
Toluene Ethylbenzene	1.0	0.050	0.9921	0	106	78.1	124	0.274	20	
				0 0	106 105	78.1 79.3	124 125	0.274 0.250	20 20	

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Talon Artesia Trionyx Frac Pond

**Client:** 

**Project:** 

Sample ID: mb-56638

Client ID: PBS

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Batch ID: 56638

Prep Date: 11/24/2020	Analysis D	Date: 11	/25/2020	S	SeqNo: 2	594753	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.47		0.5000		93.3	70	130			
Sample ID: Ics-56638	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batcl	h ID: 56	638	F	RunNo: <b>7</b> 3	3630				
Client ID: BatchQC Prep Date: 11/24/2020	Batcl Analysis E				8unNo: <b>7</b> : SeqNo: <b>2</b> :		Units: <b>mg/K</b>	g		
			/25/2020				Units: <b>mg/K</b> HighLimit	í <b>g</b> %RPD	RPDLimit	Qual
Prep Date: 11/24/2020	Analysis D	Date: 11	/25/2020	S	SeqNo: 2	594754	0	•	RPDLimit	Qual
Prep Date: 11/24/2020 Analyte	Analysis D Result	Date: 11 PQL	/ <b>25/2020</b> SPK value	SPK Ref Val	SeqNo: 2	594754 LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 11/24/2020 Analyte Benzene	Analysis D Result 1.2	Date: 11 PQL 0.025	I/25/2020 SPK value 1.000	SPK Ref Val	SeqNo: 2 %REC 119	594754 LowLimit 80	HighLimit 120	•	RPDLimit	Qual
Prep Date: 11/24/2020 Analyte Benzene Toluene	Analysis D Result 1.2 1.1	Date: 11 PQL 0.025 0.050	I/25/2020 SPK value 1.000 1.000	SPK Ref Val 0 0	SeqNo: <b>2</b> %REC 119 109	594754 LowLimit 80 80	HighLimit 120 120	•	RPDLimit	Qual
Prep Date: <b>11/24/2020</b> Analyte Benzene Toluene Ethylbenzene	Analysis E Result 1.2 1.1 1.1	Date: 11 PQL 0.025 0.050 0.050	I/25/2020 SPK value 1.000 1.000 1.000	SPK Ref Val 0 0 0	SeqNo: 29 %REC 119 109 109	594754 LowLimit 80 80 80	HighLimit 120 120 120	•	RPDLimit	Qual
Prep Date: 11/24/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Analysis D Result 1.2 1.1 1.1 3.5	Date: 11 PQL 0.025 0.050 0.050	I/25/2020 SPK value 1.000 1.000 1.000 3.000	SPK Ref Val 0 0 0	SeqNo: 29 <u>%REC</u> 119 109 109 117	594754 LowLimit 80 80 80 80 80	HighLimit 120 120 120 120	•	RPDLimit	Qual
Prep Date: 11/24/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Analysis E Result 1.2 1.1 1.1 3.5 0.52	Date: 11 PQL 0.025 0.050 0.050	I/25/2020 SPK value 1.000 1.000 1.000 3.000 0.5000	SPK Ref Val 0 0 0	SeqNo: 29 %REC 119 109 109 117 103	594754 LowLimit 80 80 80 80 80 70	HighLimit 120 120 120 120 120 130	•	RPDLimit	Qual

TestCode: EPA Method 8260B: Volatiles Short List

RunNo: 73630

Qualifiers:

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Page 46 of 47

WO#: 2011B61

01-Dec-20

	n Artesia nyx Frac Pond									
Sample ID: mb-56638	Samp	Type: ME	BLK	Tes	tCode: Ef	PA Method	8015D Mod:	Gasoline	Range	
Client ID: <b>PBS</b> Prep Date: <b>11/24/2020</b>	Bato Analysis I	ch ID: <b>56</b> Date: <b>1</b> 1	638 1/25/2020		RunNo: <b>7</b> : SeqNo: <b>2</b> :		Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC Surr: BFB	)) ND 510	5.0	500.0		101	70	130			
Sample ID: Ics-56638	Samp	Type: LC	s	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Bato	h ID: 56	638	F	RunNo: 7;	3630				
Prep Date: 11/24/2020	Analysis I	Date: 11	1/25/2020	5	SeqNo: 2	594914	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC Surr: BFB	)) 22 510	5.0	25.00 500.0	0	88.8 103	70 70	130 130			

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix

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- E Value above quantitation range
- J Analyte detected below quantitation limits
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Page 47 of 47

2011B61

01-Dec-20

WO#:

ANA	IRONMENT	TE	dl Environm L: 505-345- Vehsite: clien	49 Albuquer 3975 FAX	01 Haw que, NA : 505-3-	kins NE 4 87109 45-4107	Sar	Sample Log-In Check List				
Client Name	Talon Arte	sia	Work	Order Nun	nber: 201	1B61			RcptNo: 1			
Received By	Juan Roj	as	11/24/2	2020 8:00:0	0 AM		iflian	A.J	81.1			
Completed B	y: Desiree D	Oominguez	11/24/2	020 9:21:0	7 AM		Tre	~				
Reviewed By	SPA	11-24					14	R				
Chain of C	ustody											
1. Is Chain of	f Custody comp	olete?			Yes	~	No		Not Present			
2. How was t	he sample deliv	vered?			Cou	rier						
Log In												
3. Was an att	empt made to	les?		Yes		No						
4. Were all sa	mples received	ture of >0° C	to 6.0°C	Yes	✓	No						
5. Sample(s)	in proper conta			Yes	~	No	· 🗌					
6. Sufficient s	ample volume f	est(s)?		Yes	V	No						
7. Are sample			ed?	Yes	~	No						
8. Was preser				Yes			~	NA 🗌				
9. Received at least 1 vial with headspace <1/4" for AQ VOA?							No		NA 🗹			
10. Were any s		Yes		No	•	# of preserved						
11. Does paper	work match bo epancies on cha		A.		Yes	~	No		bottles checked for pH:			
12. Are matrice		Yes	V	No		(<2 or >12 unless noted) Adjusted?						
		Yes	V	No								
<ul><li>13. Is it clear what analyses were requested?</li><li>14. Were all holding times able to be met? (If no, notify customer for authorization.)</li></ul>					Yes		No	-	Checked by: JR 11/24/20			
Special Han	dling (if app	olicable)										
15. Was client	notified of all d	iscrepancies v	vith this order?	,	Yes		No		NA 🗹			
	on Notified:			Date	e l			_				
	hom:			Via:	eM	ail 🗌	Phone	] Fax	In Person			
	rding:											
	t Instructions:											
16. Additional												
17. Cooler Inf		0			6.2							
Cooler I 1	No Temp °C 0.3	Condition Good	Seal Intact	Seal No	Seal D	ate	Signed	Ву				
2	1.1	Good										
3	4.3	Good										
4	0.4	Good										

	Chain	-of-CI	Chain-of-Custody Record	Turn-Around	Time: 4- dav	au	-		-				ł			ļ	ceive
Client:	to	1/40	- P F	⊠ Standard	C Rush	/								AALL ENVIKONMENTAL ANALYSTS LABODATODY	EN I	A L	ed by
				Project Name: Devon	Devon	Energy			_		alled w	- nviro	, under	www.hallenvironmental.com	5		<b>OCL</b>
Mailin	Mailing Address:	s: DN	file	Trion	IX Frac	Pord	_	490	Hav	4901 Hawkins NE -	- IN	Albuc	Inergi	Albuquerque, NM 87109	60		): 2/2
				Project #: /				Tel.	505-	505-345-3975	975	Fax	< 505	Fax 505-345-4107			2/20
Phone #:	:#:			700794.	336.01						Ar	ialysi	s Red	Analysis Request			21 3
email	email or Fax#:			Project Manager:	ger:		()	(0	-			*0	_	(Jr		-	:06
QA/QC	QA/QC Package:						208		S.g.	SM		S '*(		ıəsdı			:00 F
□ Sta	Standard		Level 4 (Full Validation)	Repecca	Pons		) s,8		24	IS0		ЪС	_	A\tr			PM
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	LAC	□ Other		On Ice:	D-Yes	□ No	/	-		_	-	3, 1	(AC			_	
	EDD (1ype)			# of Coolers: 4	4		38.		_	-		-					
				Cooler Temp(including CF): See	ncluding CF): Spe	Removers (°C)	LM			1.1.1.1	-	_					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	X 3T8	08:H9T	8081 P	l eHA9	АЯЭЯ	8360 () Cl, F, 1	<ul><li>0128</li><li>0128</li><li>0128</li></ul>	D IstoT			
81/11	12:00	Soil	86-1 0	4 oz jor	100	- 001	1	/			~	/					
	12:10		86-2 0'	2		-007			-								
	12:20		86-3 0'			-003											
	12:30		86-4 0'			H00-			-								-
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-	13:00	_	5-18'			+ 008											
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_	14:20		5-2 8'			110-											1.11
	14:20		5-2 10'			-012					->	/				1	23
Date:	Time:	Relinquished by:	by: P-	Received by:	Via:		Remarks	arks:	-	10			6.3	-0:03	0-1-1	(	P
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Client:	alob /L	PE	Standard	C Rush	/		זר	HALL			RONN	ENVIRONMENTAL	÷.,
			Project Name:	Devon	Energy						LABO	ANALTSIS LABORATORY	
Mailing Address:	ess: DN	£11 P	Trion	è	Pourd	07	AQ01 Hawkins NE	WWW	alle	Ironme	www.nallenvironmental.com		): 2/2
			Project #:			Ϋ́́Ύ	Tel. 505-	505-345-3975		nquero	Fav 505-345 A107	109	2/20.
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D NELAC	□ Other		On Ice:		O No	1.0		8 JC			_		
EDD (Type)	e)		10	4		200		01			_		
			Cooler Temp(including CF):	ncluding CF): 52e	Remarks (°C)	12.1		83		-			_
Date Time	e Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	STEX /	∍9 1808 M) 803	vd sHA	8 (AR) 8 31, F, B	N) 092	270 (Se oC leto		
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15:00	00	5-38'	>		410-				-				-
15:0	00	5-3 10			-015				-				
15:35	35	5-46'			-016								-
15:3.	5	5-48'			£10-		-						-
15:	:35	5-4 10'			-018								-
19 09:00	0	5-5 6 5			- 619								-
09:00	0	5-5 8'			- 020					-			
60.60	6	5-5 10 -			160-		$\vdash$						
04:60	0	5-6 6'			-023					1			-
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W/W/WWW 11/360 532 W/0:20844332 4325 - 0420-04 Received by via Date Time Bill direct / to Devan
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HALL ENVIRONMENTAL	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel 505-345-3075 Eav 505 245 4407	Analysis Request	ныс Св, <sup>г</sup> л мко)	) ИО <sup>5'</sup> Ь Ф'1) 8085 Ь 8085 Ь 2 / DКС	o(GRC od 50 310 ol 310 ol 3100 ol 310 ol 3100 ol 310 ol 310 ol 3100 ol 310	BTEX / M TPH:8015I 8081 Pesti PPHs by 8 21, F, Br, 3260 (VOA M OV AON 3260 (VOA 8 2270 (Sem					<u> </u>			Remarks: 0.3-02 0.3 W/0:20844332 4.3-02 0.3 Bill diroct 1. t. Dov.020.	ossibility. Any sub-contracted data will be clearly invisited on the monthin
Turn-Around Time: レー day I Standard I Rush Project Name: Devon Energy	00	700794.336.01	Project Manager:	L Bell No		Container Preservative 2011 Be No. Type and # Type	- 037	- 038	-039	Oho-	140-			Received by: Via: Date Time R UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	In Quessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the out-when and when and
Chain-of-Custody Record	Mailing Address: ON File	Phone #:	email or Fax#: QA/QC Package: □ Standard □ Level 4 (Full Validation)	Accreditation:	EDD (Type)	Date Time Matrix Sample Name	11/19 12:20 50:1 5-10 3	12:20 5-10 4	12:40 5-10 6	12:40 5-10 8	12:40 1 5-10 10			Date: Time: Relinquished by: 11/2 3 Y Relinquished by:	If necessary, samples submitted to Hall Environmental may be subc

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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	18520
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

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

CONDITIONS

Page 185 of 185

Action 18520