



RECEIVED

By OCD; Dr. Oberding at 10:52 am, Apr 16, 2015

March 27, 2015

Mr. Tomas Oberding
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

Stipulations:

- 1) Obtain concurrence from the BLM;
- 2) Provide geotagged photographs of the remediation process;
- 3) The RP will remain open until site abandonment/
remediation of contaminants deeper than the current remediation.

Subject: Soil Assessment and Remediation Work Plan
Oxy Permian, LTD
Teague Water Injection Station
NM-LC 064118 – NM-LC 0323339A – LC 03471

Dear Mr. Oberding,

Oxy Permian (Oxy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

APPROVED Conditionally

Incident Date By OCD; Dr. Oberding at 10:57 am, Apr 16, 2015

The leak was discovered by Oxy personnel on February 16, 2015.

Background Information

The Oxy Teague Water Injection Station is located approximately fourteen (14) miles north of Jal in Lea County, New Mexico. The legal location for this site is in Unit Letter A, Section 34, Township 23S, Range 37E. More specifically the latitude and longitude for the release are 32.265034 North and -103.143783 West. A site plan and an overview from Google earth of the facility are 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 Pyote and Maljamar fine sands with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont deposits. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer the groundwater wells appears to be dry in this area. See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **0** based on the following:

ENVIRONMENTAL CONSULTING	Depth to ground water	>100'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

On February 16, 2015 a transfer line failure caused a release of 40 barrels of produced water inside the facility. No fluids were recovered and it did not leave the location. The release was contained within the berms of the facility. Talon/LPE was contracted to complete the site assessment, soil sampling activities and to generate a work plan of appropriate clean up actions. See initial C-141 in [Appendix II](#).

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	3200	<10	<10
	1'	<0.300	4160	<10	<10
	2'	--	816	--	--
	3'	--	656	--	--
	4'	--	512	--	--
S-2	0'	<0.300	3160	<10	<10
	1'	<0.300	816	<10	<10
	2'	--	80	--	--
	3'	--	480	--	--
	4'	--	80	--	--
S-3	0'	<0.300	4880	<10	<10
	1'	<0.300	2320	<10	<10
	2'	--	1680	--	--
	3'	--	1630	--	--
	4'	--	2280	--	--
S-4	0'	<0.300	5360	<10	<10
	1'	<0.300	3280	<10	<10
	2'	--	336	--	--
	3'	--	368	--	--
	4'	--	192	--	--

-- Analyte Not Tested

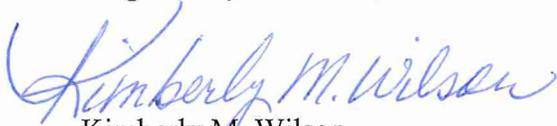
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg depending on the water table and the feasibility of excavation inside a battery due to the infrastructure and the close approximity of the tanks to each other.

Proposed Remedial Action

- To avoid compromising the structural integrity of the tank within the impacted battery, the soil will be excavated to a depth of 1-foot deep. On behalf of Oxy, we request that the remainder of the impacted soil be remediated upon the closure of the facility.
- The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with new caliche, contoured to match the surrounding location and the berms will be repaired.

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,

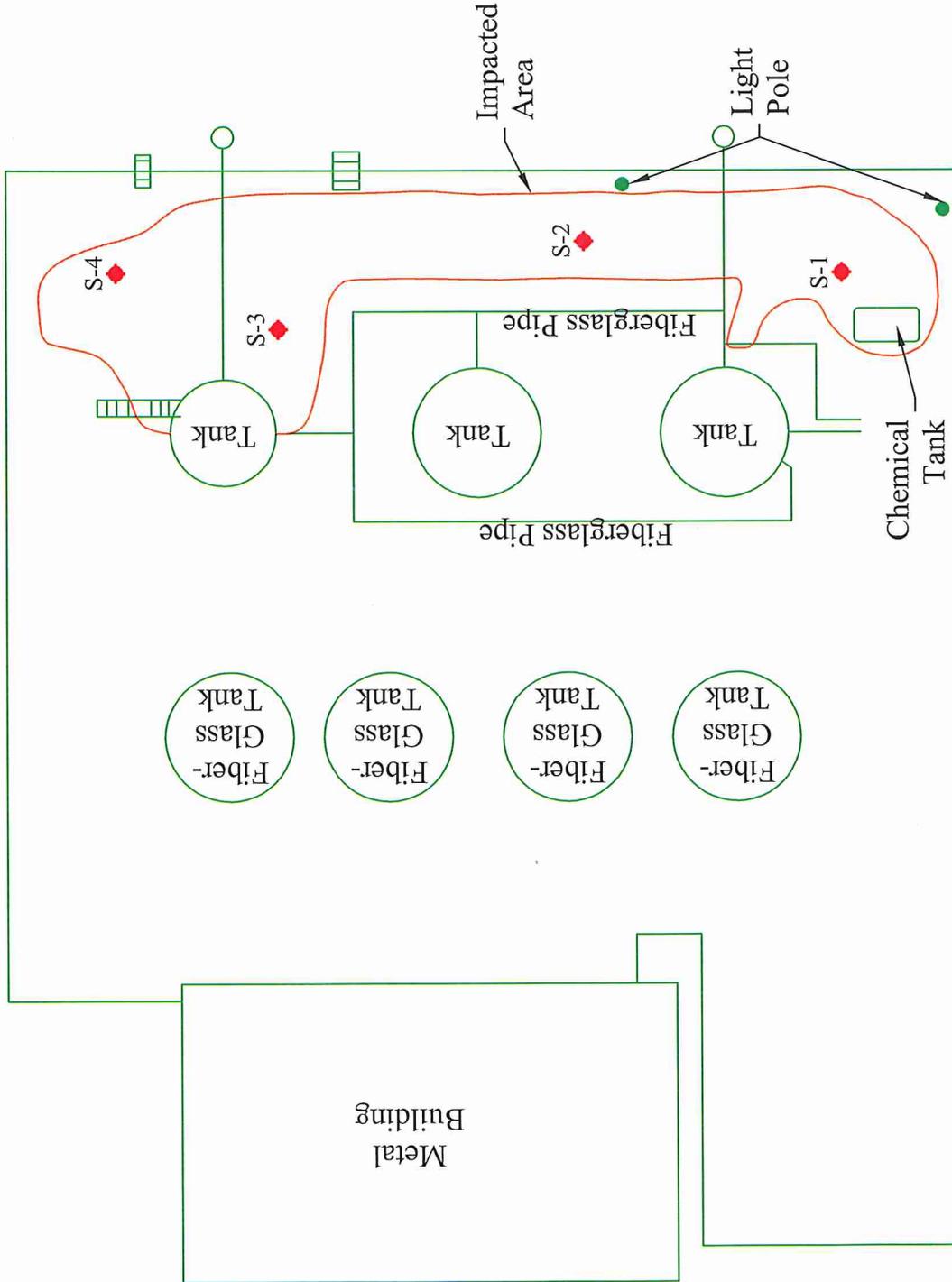
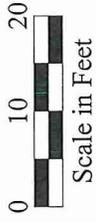


Kimberly M. Wilson
Project Manger



David J. Adkins
District Manager

APPENDIX I
SITE MAP
GOOGLE MAP OF FACILITY



Teague Injection Station Battery
Oxy - NM - North
Lea County, New Mexico
Figure 1 - Site Plan

Date: 02/24/2015

Scale: 1" = 20'

Drawn By: TJS





© 2015 Google

Google earth

Google earth

feet
meters

100

40



APPENDIX II
GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00349			LE	3	4	1	03	24S	37E	673905	3569343*	2422			
CP 00375			LE		4	4	21	23S	37E	673133	3573448*	2568	160		
CP 00158			LE	3	2	3	33	23S	37E	672276	3570517*	2803	140		
CP 00347			LE	3	2	3	33	23S	37E	672276	3570517*	2803	103		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 674877

Northing (Y): 3571562

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.

RECEIVED

By OCD; Dr. Oberding at 9:35 am, Mar 05, 2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Oxy Permian LTD (192463)	Contact: Chris Jones
Address: 102 S. Main St. Carlsbad, NM 88220	Telephone No.: 575-628-4121
Facility Name: Teague Water Injection Station	Facility Type: Injection Station
Surface Owner: Federal	Mineral Owner:
	API No.: Lease #: NM-LC 064118 NM-LC 032339A LC 034711

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	34	23S	37E					

Latitude 32.264867 N Longitude -103.143939 W

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 40 bbls	Volume Recovered: 0 bbls
Source of Release: Transfer line from circulation tank failed	Date and Hour of Occurrence 2/16/15	Date and Hour of Discovery 2/16/15
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* The transfer line from the circulating tank to the gun barrel malfunctioned causing a release of 40 barrels of produced water inside the berms of the facility. No fluids were recovered. Talon/LPE was contracted to perform an initial site assessment and soil sampling.

Describe Area Affected and Cleanup Action Taken.* The release within the berms of the facility.

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: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones888@yahoo.com, c=US Date: 2015.02.27 14:23:43 -06'00'</small>	OIL CONSERVATION DIVISION	
	Hydrologist Approved by Environmental Specialist 	
Printed Name: Chris Jones	Approval Date: 03/05/2015	Expiration Date: 05/05/2015
Title: HES Specialist	Conditions of Approval:	
E-mail Address: Christopher.Jones@oxy.com	Site samples required. Delineate and remediate area as per NMOCD guides.	Attached <input type="checkbox"/> IRP-3558 157984
Date: 2/25/2015 Phone: 575-628-4121		

* Attach Additional Sheets If Necessary

fTO1506434782
nTO1506435580
pTO1506435904

APPENDIX III
LABORATORY RESULTS

March 05, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TEAGUE WATER INJECTION STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/25/15 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 0' (H500550-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	211	106	200	0.431		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	210	105	200	0.00906		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 1' (H500550-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	211	106	200	0.431		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	210	105	200	0.00906		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

Sample ID: S-1 2' (H500550-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	02/27/2015	ND	416	104	400	3.92		

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 3' (H500550-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/27/2015	ND	416	104	400	3.92		

Sample ID: S-1 4' (H500550-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	02/27/2015	ND	416	104	400	3.92		

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 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 0' (H500550-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	0.052	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05		

Surrogate: 1-Chlorooctane 78.8 % 47.2-157
Surrogate: 1-Chlorooctadecane 72.9 % 52.1-176

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 1' (H500550-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05		

Surrogate: 1-Chlorooctane 80.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 74.0 % 52.1-176

Sample ID: S-2 2' (H500550-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/27/2015	ND	416	104	400	3.92		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 3' (H500550-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/27/2015	ND	416	104	400	3.92		

Sample ID: S-2 4' (H500550-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/27/2015	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 0' (H500550-11)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PII) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05		

Surrogate: 1-Chlorooctane 81.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 75.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 1' (H500550-12)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	02/27/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05		

Surrogate: 1-Chlorooctane 83.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 75.0 % 52.1-176

Sample ID: S-3 2' (H500550-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	02/27/2015	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 3' (H500550-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	02/27/2015	ND	416	104	400	3.92		

Sample ID: S-3 4' (H500550-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	02/27/2015	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 0' (H500550-16)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92	
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73	
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84	
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22	
Total BTEX	<0.300	0.300	03/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	02/27/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21	
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05	

Surrogate: 1-Chlorooctane 82.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 72.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 1' (H500550-17)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/02/2015	ND	1.92	96.0	2.00	5.92		
Toluene*	<0.050	0.050	03/02/2015	ND	1.77	88.7	2.00	4.73		
Ethylbenzene*	<0.050	0.050	03/02/2015	ND	1.98	99.1	2.00	6.84		
Total Xylenes*	<0.150	0.150	03/02/2015	ND	5.33	88.9	6.00	8.22		
Total BTEX	<0.300	0.300	03/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	02/27/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/27/2015	ND	201	101	200	2.21		
DRO >C10-C28	<10.0	10.0	02/27/2015	ND	186	92.8	200	4.05		

Surrogate: 1-Chlorooctane 81.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 71.8 % 52.1-176

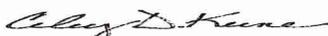
Sample ID: S-4 2' (H500550-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/27/2015	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	02/25/2015	Sampling Date:	02/19/2015
Reported:	03/05/2015	Sampling Type:	Soil
Project Name:	TEAGUE WATER INJECTION STATION	Sampling Condition:	Cool & Intact
Project Number:	700608.415.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 3' (H500550-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/27/2015	ND	400	100	400	0.00		

Sample ID: S-4 4' (H500550-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	02/27/2015	ND	400	100	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PG 10F2

Company Name: Talon/PE
 Project Manager: D. Adkins
 Address: 408 W. Texas Ave.
 City: Artesia State: NM zip: 88210
 Phone #: 575-746-8768 Fax #: 575-746-8905
 Project #: 700608.415.01 Project Owner: Oxy
 Project Name: Teague Injection Station
 Project Location:
 Sampler Name: R. Derosier
 FOR LAB USE ONLY

BILL TO
 P.O. #: Company: Oxy
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1500550	5-10'	G	1	/	/	/	/	/	/	2/14/15	11:58	/	/	/
	5-11'	G	1	/	/	/	/	/	/	2/14/15	12:01	/	/	/
	5-12'	G	1	/	/	/	/	/	/	2/14/15	12:04	/	/	/
	5-13'	G	1	/	/	/	/	/	/	2/14/15	12:06	/	/	/
	5-14'	G	1	/	/	/	/	/	/	2/14/15	12:08	/	/	/
	5-20'	G	1	/	/	/	/	/	/	2/14/15	12:13	/	/	/
	5-21'	G	1	/	/	/	/	/	/	2/14/15	12:18	/	/	/
	5-22'	G	1	/	/	/	/	/	/	2/14/15	12:21	/	/	/
	5-23'	G	1	/	/	/	/	/	/	2/14/15	12:23	/	/	/
	5-24'	G	1	/	/	/	/	/	/	2/14/15	12:27	/	/	/

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Relinquished By: [Signature]
 Date: 2/14/15
 Time: 5:00p
 Received By: [Signature]
 Date: 2/15/15
 Time: 4:40p

Delivered By: (Circle One)
 UPS - Bus - Other: [X] UPS

Sample Condition: Cool Intact
 Yes No
 Yes No

Checked By: [Signature]
 Date: 2/15/15
 Time: 4:40p
 Phone Result: Yes No
 Add'l Phone #: _____
 Fax Result: Yes No
 Add'l Fax #: _____

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 2017

Company Name: Talon/LPE
 Project Manager: D. Adkins
 Address: 408 W. Texas Ave.
 City: Artesia State: NM Zip: 88210
 Phone #: 575-746-8768 Fax #: 575-746-8905
 Project #: 700608.415.01 Project Owner: Oxy
 Project Name: Teague Injection Station
 Project Location:
 Sampler Name: R. Derosier
 FOR LAB USE ONLY

BILL TO
 P.O. #: Company: Oxy
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
11	5-30	G	1	/	/	/	/	/	2/19/15	12:30	/	/	/	
12	5-31	G	1	/	/	/	/	/	2/19/15	12:32	/	/	/	
13	5-32	G	1	/	/	/	/	/	2/19/15	12:34	/	/	/	
14	5-33	G	1	/	/	/	/	/	2/19/15	12:36	/	/	/	
15	5-34	G	1	/	/	/	/	/	2/19/15	12:38	/	/	/	
16	5-40	G	1	/	/	/	/	/	2/19/15	12:41	/	/	/	
17	5-41	G	1	/	/	/	/	/	2/19/15	12:51	/	/	/	
18	5-42	G	1	/	/	/	/	/	2/19/15	12:54	/	/	/	
19	5-43	G	1	/	/	/	/	/	2/19/15	1:09	/	/	/	
20	5-44	G	1	/	/	/	/	/	2/19/15	1:03	/	/	/	

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Relinquished By: [Signature] Date: 2/19/15 Received By: [Signature] Date: 2/19/15
 Time: 5:00
 Delivered By: (Circle One) [Signature] Time: 4:40
 Sampler - UPS - Bus - Other: [Signature] Time: 4:20

Sample Condition: Cool Impact
 Checked By: [Signature] (Initials)
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: OP# 56241428
 PROJ# 1126426
 TSK# 01040502
 ELE# 2019

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #511