

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 Yates Petroleum Corporation	Contact Chase Settle
Address 104 S. 4 <sup>th</sup> Street, Artesia, NM 88210	Telephone No. 575-748-4171
Facility Name Benson Deep BDX Federal Com #1	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-22793
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### LOCATION OF RELEASE

Unit Letter O	Section 33	Township 18S	Range 30E	Feet from the 660'	North/South Line South	Feet from the 2180'	East/West Line East	County Eddy
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Latitude 32.69853 Longitude -103.97554

### NATURE OF RELEASE

Type of Release Crude Oil and Fresh Water	Volume of Release 200 B/O; 200 B/FW	Volume Recovered 60 B/O; 170 B/FW
Source of Release Casing failure and production tanks overflowed	Date and Hour of Occurrence 1/9/2015; 10:00 a.m.	Date and Hour of Discovery 1/9/2015; 10:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson, Randy Dade, Jim Amos, Duncan Whitlock	
By Whom? Bob Asher	Date and Hour 1/9/2015; 4:58 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	


If a Watercourse was Impacted, Describe Fully.\* N/A

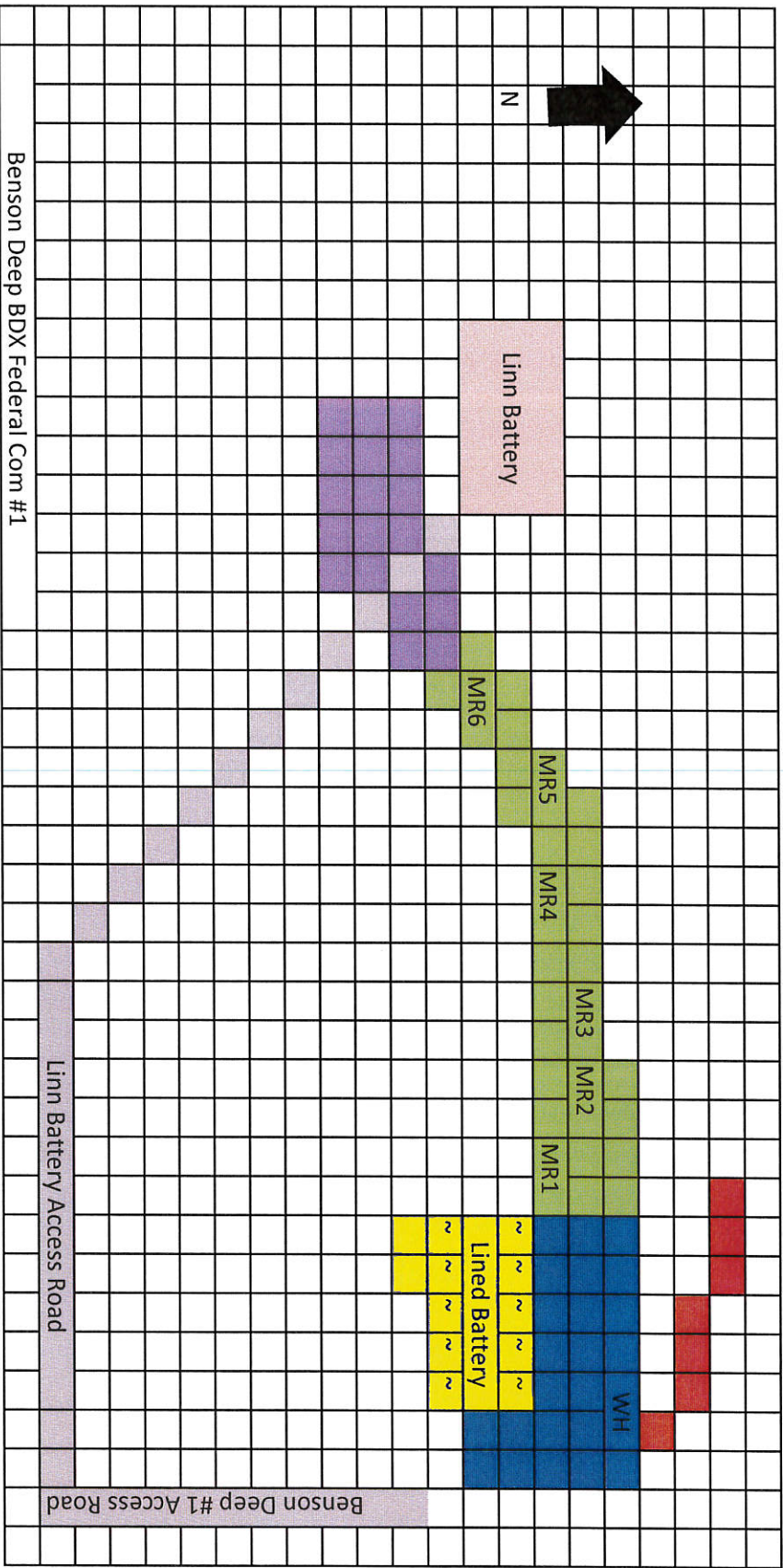
Describe Cause of Problem and Remedial Action Taken.\*

During completions operations of Yates' Benson Deep BDX Fed. Com #2, the zone of completion was in close proximity of the producing zone of the Yates' Benson Deep BDX Federal Com #1 well, causing a release of crude oil and fresh water from the casing and production tanks.

Describe Area Affected and Cleanup Action Taken.\* An approximate area of 920' X 205' was impacted on and off location, as well as within the bermed/lined battery. The released fluid affected the location pad and caused a portion of the berm to wash out before flowing west off of the location into the adjacent pasture. Vacuum truck(s) were called to remove standing fluid and impacted soils will be excavated and hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approximately 175', Section 33, T18S-R30E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on analytical results (6/25/2015 results attached) of remediation confirmation samples, Yates Petroleum Corporation requests closure.**

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chase Settle	Approved by Environmental Specialist:		
Title: NM Environmental Regulatory Agent	Approval Date:	Expiration Date:	
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 06/29/2015	Phone: 575-748-4171		



X MR Sample Point

Release Area

Site Ranking is Zero (0). >100' (175', Section 33, T18S-R30E, Trend Map

All results are ppm. Chlorides for documentation

Released: 200 B/O & 200 B/FW; Recovered: 60 B/O & 170 B/FW Release Date: 01/09/2015

June 25, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BENSON DEEP BDX FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 06/19/15 15:20.

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](http://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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
CHASE SETTLE  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDX FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDX FEDERAL COM #1		

**Sample ID: MR1-SUR (H501598-01)**

BTX 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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTX	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 61-154

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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	125	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 99.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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YATES PETROLEUM CORPORATION  
CHASE SETTLE  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDX FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDX FEDERAL COM #1		

**Sample ID: MR2-SUR (H501598-02)**

BTX 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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTX	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 61-154

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	06/23/2015	ND	179	89.3	200	0.355		
DRO >C10-C28	131	10.0	06/23/2015	ND	182	91.1	200	2.15		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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YATES PETROLEUM CORPORATION  
CHASE SETTLE  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDX FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDX FEDERAL COM #1		

**Sample ID: MR3-SUR (H501598-03)**

BTX 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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTX	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 61-154

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	06/23/2015	ND	179	89.3	200	0.355		
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15		

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 CHASE SETTLE  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDx FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDx FEDERAL COM #1		

**Sample ID: MR4-SUR (H501598-04)**

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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTEX	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	36.8	10.0	06/23/2015	ND	179	89.3	200	0.355		
DRO >C10-C28	4690	10.0	06/23/2015	ND	182	91.1	200	2.15		

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 196 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

YATES PETROLEUM CORPORATION  
CHASE SETTLE  
105 S 4th Street  
Artesia NM, 88210  
Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDX FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDX FEDERAL COM #1		

**Sample ID: MR5-SUR (H501598-05)**

BTX 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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTX	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 61-154

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	17.0	10.0	06/23/2015	ND	179	89.3	200	0.355		
DRO >C10-C28	3940	10.0	06/23/2015	ND	182	91.1	200	2.15		

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 185 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 YATES PETROLEUM CORPORATION  
 CHASE SETTLE  
 105 S 4th Street  
 Artesia NM, 88210  
 Fax To: (505) 748-4635

Received:	06/19/2015	Sampling Date:	06/17/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	BENSON DEEP BDX FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BENSON DEEP BDX FEDERAL COM #1		

**Sample ID: MR6-SUR (H501598-06)**

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEX	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 113 % 61-154

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	06/23/2015	ND	179	89.3	200	0.355		
DRO >C10-C28	1380	10.0	06/23/2015	ND	182	91.1	200	2.15		

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 146 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail: [csettle@yatespetroleum.com](mailto:csettle@yatespetroleum.com)

Fax No: 575-748-4131

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

PO #: 205, 0750

Project Name:

Benson Deep BDx Federal Com #1

Project #:

Benson Deep BDx Federal Com #1

(lab use only)

ORDER #: 1501598

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015B

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO<sub>4</sub>, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered

by Courier? UPS DHL

Temperature Upon Receipt: 0.8

#51 °C

N N N N N N N N N N

N N N N N N N N N N

N N N N N N N N N N