

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
NM-819536. If Indian, Allottee or Tribe Name  
N/A**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
Yates Petroleum Corporation3a. Address  
105 S. 4th St., Artesia, NM 882103b. Phone No. (include area code)  
575-748-41717. If Unit of CA/Agreement, Name and/or No.  
N/A8. Well Name and No.  
Glow Worm ALX Federal Battery9. API Well No.  
30-015-3531310. Field and Pool or Exploratory Area  
Los Medanos; Delaware4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
330' FNL & 2310' FWL, Section 3, T23S-R31E11. County or Parish, State  
Eddy County, New Mexico

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Clean up actions to</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>be taken.</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The horizontal knockout separator for the Glow Worm ALX Federal #19 well had a manhole cover gasket failure. An approximate area of 25' X 40' was impacted within the lined, bermed battery and an approximate area of 65' X 35' in an area previously impacted by a prior release. There was also an overspray area approximately 50' X 50' to the north of the pooling area. The horizontal knockout was located on the west end of the battery and the spray from the failed gasket allowed fluids to impact areas within and outside of the lined, bermed battery. Vacuum truck was called to remove standing fluid and a roustabout crew was called to repair the horizontal knockout. A backhoe was also contacted to excavate impacted soils, which were hauled to a NMOC approved facility. Soil samples were taken immediately after impacted soils were removed and analysis of TPH & BTEX and chlorides were conducted by an NMOC approved laboratory. The analytical data corresponded with previous sampling conducted in the same pooling area from the previous release and the overspray area showed to be under RRALs for TPH & BTEX and ND for chlorides. Since analytical data corresponds with previous release, impacted area of this release will be addressed with the already approved work plan for the previous release. An Initial/Final Report, C-141 is submitted to the OCD requesting closure. Depth to Ground Water: >100' (approximately 105', Section 3, T23S-R31E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Chase Settle

Title NM Environmental Regulatory Agent

Signature

Date 09/23/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

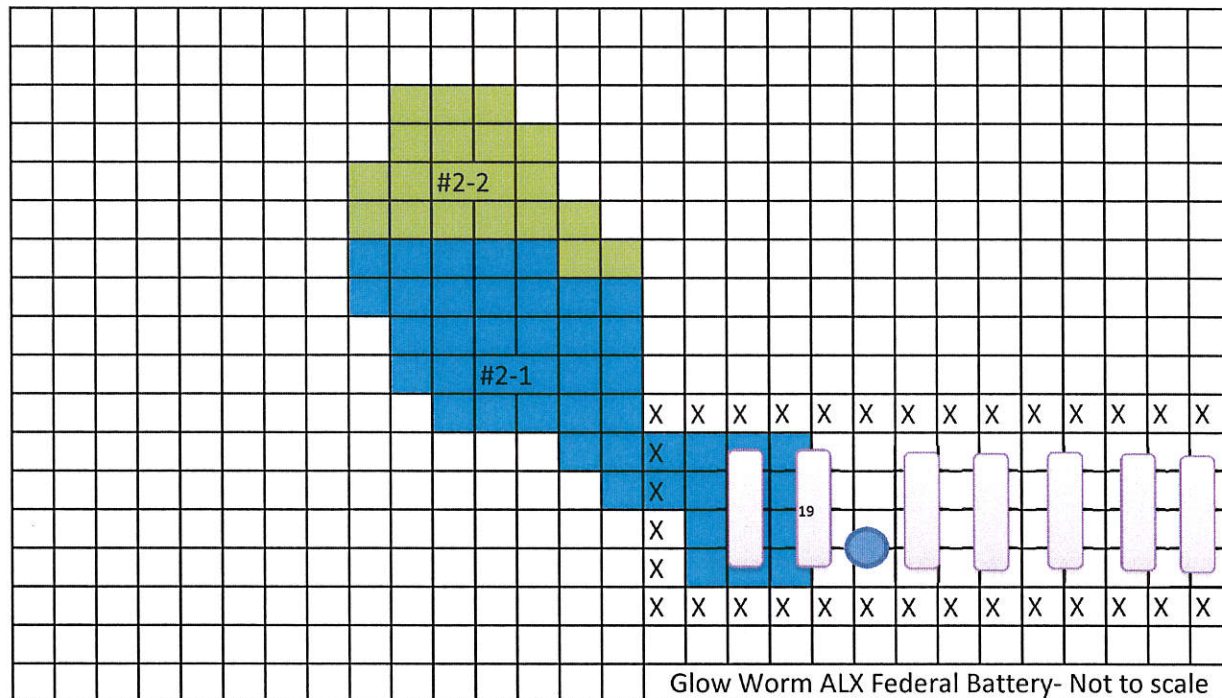
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



Release & Previous Release Area



Overspray Area

1509908	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
#2-1-1'	Release Area	9/17/2015	Backhoe	1'	ND	ND	ND	5500
#2-1-2'	Release Area	9/17/2015	Backhoe	2'	ND	ND	ND	1600
#2-1-3'	Release Area	9/17/2015	Backhoe	3'	ND	ND	ND	820
#2-1-4'	Release Area	9/17/2015	Backhoe	4'	ND	ND	ND	800
#2-2-1'	Release Area	9/17/2015	Hand Auger	1'	ND	ND	ND	ND
#2-2-2'	Release Area	9/17/2015	Hand Auger	2'	ND	ND	ND	ND

Site Ranking is Zero (0). >100' (105', Section 3, T23S-R31E, Trend Map

All results are ppm. Chlorides for documentation

Released: 8 B/O & 12 B/PW ; Recovered: 3 B/O & 0 B/PW, Release Date: 9/17/2015

## Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-1-1'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 1:50:00 PM

Lab ID: 1509908-001

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2015 11:00:44 AM
Surr: DNOP	81.8	57.9-140		%REC	1	9/22/2015 11:00:44 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Chloride	5500	300		mg/Kg	200	9/22/2015 2:57:00 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.050		mg/Kg	1	9/22/2015 11:29:36 AM
Toluene	ND	0.050		mg/Kg	1	9/22/2015 11:29:36 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2015 11:29:36 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/22/2015 11:29:36 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	9/22/2015 11:29:36 AM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	9/22/2015 11:29:36 AM
Surr: Dibromofluoromethane	110	70-130		%REC	1	9/22/2015 11:29:36 AM
Surr: Toluene-d8	96.9	70-130		%REC	1	9/22/2015 11:29:36 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2015 11:29:36 AM
Surr: BFB	103	70-130		%REC	1	9/22/2015 11:29:36 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-1-2'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 1:55:00 PM

Lab ID: 1509908-002

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2015 11:22:18 AM
Surr: DNOP	101	57.9-140		%REC	1	9/22/2015 11:22:18 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JRR
Chloride	1600	75		mg/Kg	50	9/22/2015 3:09:00 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	9/22/2015 11:57:03 AM
Toluene	ND	0.049		mg/Kg	1	9/22/2015 11:57:03 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2015 11:57:03 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2015 11:57:03 AM
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%REC	1	9/22/2015 11:57:03 AM
Surr: 4-Bromofluorobenzene	99.1	70-130		%REC	1	9/22/2015 11:57:03 AM
Surr: Dibromofluoromethane	104	70-130		%REC	1	9/22/2015 11:57:03 AM
Surr: Toluene-d8	93.8	70-130		%REC	1	9/22/2015 11:57:03 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2015 11:57:03 AM
Surr: BFB	99.3	70-130		%REC	1	9/22/2015 11:57:03 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

# Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-1-3'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 2:00:00 PM

Lab ID: 1509908-003

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2015 11:44:01 AM
Surr: DNOP	101	57.9-140		%REC	1	9/22/2015 11:44:01 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT
Chloride	820	30		mg/Kg	20	9/21/2015 6:45:16 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	9/22/2015 12:24:41 PM
Toluene	ND	0.049		mg/Kg	1	9/22/2015 12:24:41 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2015 12:24:41 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/22/2015 12:24:41 PM
Surr: 1,2-Dichloroethane-d4	98.0	70-130		%REC	1	9/22/2015 12:24:41 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	9/22/2015 12:24:41 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	9/22/2015 12:24:41 PM
Surr: Toluene-d8	94.3	70-130		%REC	1	9/22/2015 12:24:41 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2015 12:24:41 PM
Surr: BFB	105	70-130		%REC	1	9/22/2015 12:24:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			



## Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-1-4'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 2:05:00 PM

Lab ID: 1509908-004

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2015 12:05:29 PM
Surr: DNOP	102	57.9-140		%REC	1	9/22/2015 12:05:29 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT
Chloride	800	30		mg/Kg	20	9/21/2015 6:57:41 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.047		mg/Kg	1	9/22/2015 12:52:18 PM
Toluene	ND	0.047		mg/Kg	1	9/22/2015 12:52:18 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/22/2015 12:52:18 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/22/2015 12:52:18 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	9/22/2015 12:52:18 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	1	9/22/2015 12:52:18 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	9/22/2015 12:52:18 PM
Surr: Toluene-d8	94.9	70-130		%REC	1	9/22/2015 12:52:18 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/22/2015 12:52:18 PM
Surr: BFB	103	70-130		%REC	1	9/22/2015 12:52:18 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-2-1'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 1:40:00 PM

Lab ID: 1509908-005

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/22/2015 12:27:06 PM
Surr: DNOP	117	57.9-140		%REC	1	9/22/2015 12:27:06 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/21/2015 7:34:55 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.048		mg/Kg	1	9/22/2015 1:19:57 PM
Toluene	ND	0.048		mg/Kg	1	9/22/2015 1:19:57 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2015 1:19:57 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/22/2015 1:19:57 PM
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%REC	1	9/22/2015 1:19:57 PM
Surr: 4-Bromofluorobenzene	97.7	70-130		%REC	1	9/22/2015 1:19:57 PM
Surr: Dibromofluoromethane	111	70-130		%REC	1	9/22/2015 1:19:57 PM
Surr: Toluene-d8	94.2	70-130		%REC	1	9/22/2015 1:19:57 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2015 1:19:57 PM
Surr: BFB	105	70-130		%REC	1	9/22/2015 1:19:57 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1509908

Date Reported:

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: #2-2-2'

Project: Glow Worm ALX Federal Battery

Collection Date: 9/17/2015 1:45:00 PM

Lab ID: 1509908-006

Matrix: SOIL

Received Date: 9/19/2015 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2015 12:48:32 PM
Surr: DNOP	116	57.9-140		%REC	1	9/22/2015 12:48:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/21/2015 7:47:20 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.049		mg/Kg	1	9/22/2015 1:47:38 PM
Toluene	ND	0.049		mg/Kg	1	9/22/2015 1:47:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/22/2015 1:47:38 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/22/2015 1:47:38 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	9/22/2015 1:47:38 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	9/22/2015 1:47:38 PM
Surr: Dibromofluoromethane	113	70-130		%REC	1	9/22/2015 1:47:38 PM
Surr: Toluene-d8	94.9	70-130		%REC	1	9/22/2015 1:47:38 PM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/22/2015 1:47:38 PM
Surr: BFB	103	70-130		%REC	1	9/22/2015 1:47:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 0
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			