



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pVF1805337249

3RP - 1061

Williams Four Corners, LLC

2/22/2018

3R-1061

**Williams Four Corners
LLC**

**Lateral L-2
07/20/2017**

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

OIL CONS. DIV DIST. 3
JAN 22 2018

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

Subsequent Report Final Report

Name of Company: Williams Four Corners LLC	Contact: Kijun Hong
Address: 1755 Arroyo Dr., Farmington, NM 87413	Telephone No.: (505) 632-4475
Facility Name: Lateral L-2	Facility Type: Pipeline
Surface Owner: BLM	Mineral Owner
BLM Project No. NMNM0013315	

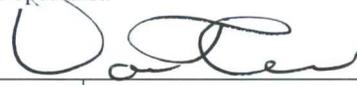
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	14	28N	10W					San Juan

Latitude **36.6602** Longitude **-107.8595**

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: 144 MCF	Volume Recovered: 0 MCF
Source of Release: Pipeline	Date and Hour of Occurrence: 07/20/2017 at 4:00 PM	Date and Hour of Discovery: 07/20/2017 at 4:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour: NA	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully.* NA		
Describe Cause of Problem and Remedial Action Taken.* Line leak discovered by survey crew. Leak has been repaired		
Describe Area Affected and Cleanup Action Taken.* Monitoring well and temporary piezometers to be installed to monitor groundwater.		
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>	
	Approved by Environmental Specialist: 	
Printed Name: Kijun Hong	Approval Date: 2/22/2018	Expiration Date:
Title: Environmental Specialist	Conditions of Approval:	
E-mail Address: kijun.hong@williams.com	Attached <input checked="" type="checkbox"/>	
Date: 1/19/2018 Phone: (505) 632-4475		

* Attach Additional Sheets If Necessary

NVF 1724832528

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary



08 January 2018

Ashley Ager, M.S., P.G.
Senior Geologist/Director of Regional
LT Environmental, Inc.
848 East 2nd Avenue
Durango, CO 81301

Re: Lateral L-2 Pipeline Release
Proposed Groundwater Work Plan
January 3, 2018

Dear Ms. Ager:

OCD has reviewed the subject work plan. OCD approves this work plan with the following conditions.

- 1.) Install a fourth borehole (BH) upgradient, to the South of your MW01.
- 2.) Take at least one blind field duplicate, according to which BH shows the highest field screenings.
- 3.) Make sure your lab runs at least one lab split.
- 4.) If field screening shows positive for hydrocarbons, continue to step out with more BHs until your field screening show negative.
- 5.) Provide District III staff with a schedule or your proposed work.
- 6.) Provide District III staff at least 72 hours prior notice of major activities in the schedule so that staff can witness activities.

Cheers,

Randolph Bayliss, P.E.
Hydrologist, District III

Cc: Jim Griswold, Brandon Powell, Cory Smith, Vanessa Fields

January 3, 2018

Ms. Vanessa Fields
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**RE: Proposed Groundwater Work Plan
Lateral L-2 Pipeline Release
Williams Four Corners LLC
San Juan County, New Mexico**

Dear Ms. Fields:

LT Environmental, Inc. (LTE), on behalf of Williams Four Corners LLC (Williams), proposes the following work plan regarding the groundwater encountered at the Lateral L-2 pipeline release (Site) located in the northeast quarter of the southeast quarter of Section 14 within Township 28 North and Range 10 West in the San Juan Basin in San Juan County, New Mexico (Figure 1).

BACKGROUND

A pipeline leak was detected during a leak survey on the Lateral L-2 leg adjacent to the Armenta Wash. The pipeline was immediately shut-in and repaired. The soil surrounding the leak area was suspected of hydrocarbon impact due to its dark color and organic odor, but analytical results indicated no presence of benzene, toluene, ethylbenzene, and total xylenes (BTEX) or total petroleum hydrocarbons (TPH). The dark color and organic odor were a result of the rich organic material decomposing in the shallow saturated soil in the banks of the Armenta Wash. Since shallow groundwater was observed during the pipeline repair, the New Mexico Oil Conservation Division (NMOCD) requested that a groundwater sample be collected. While backfilling the excavated area around the repaired pipeline, a piece of slotted PVC pipe was installed into the native saturated soil at approximately 7 feet below ground surface as a temporary groundwater collection point. The native soil surrounding the temporary monitoring well consists of a fine, silty sand that allows for groundwater infiltration into the slotted PVC pipe. On October 20, 2017, a grab sample of the groundwater was collected in the presence of the NMOCD and analyzed for BTEX. Laboratory results exhibit concentrations of 39 micrograms per liter ($\mu\text{g/L}$) benzene and 4.3 $\mu\text{g/L}$ toluene. No ethylbenzene or xylenes were detected. Groundwater standards are established by the New Mexico Water Quality Control Commission (NMWQCC) as 10 $\mu\text{g/L}$ benzene, 750 $\mu\text{g/L}$ toluene, 750 $\mu\text{g/L}$ ethylbenzene, and 620 $\mu\text{g/L}$ total xylenes. The complete laboratory analytical report is attached and summarized in Table 1.



PROPOSED WORK PLAN

LTE proposes installing additional temporary piezometers/groundwater sampling points via hand auger installation and conducting a subsequent sampling event. A disposable bailer and/or peristaltic pump will be used to purge the temporary monitoring well and newly installed piezometers of any stagnant water and flush out any accumulated sediment. Once fluid levels are restored, LTE proposes collecting additional water samples in the presence of the NMOCD. The samples will be submitted to Hall Environmental Analytical Laboratory of Albuquerque, New Mexico for analysis of BTEX by United States Environmental Protection Agency Method 8260. The proposed sample locations are shown on Figure 2.

If the sample results of the second sampling event are below NMWQCC standards, LTE will request a No Further Action status be granted for this Site under separate cover. If BTEX concentrations above NMWQCC standards are detected in the second sampling event, LTE proposes continued quarterly groundwater sampling of the temporary monitoring well and piezometers with observation of monitored natural attenuation parameters, including dissolved oxygen and oxidation reduction potential. Downgradient impact will also be monitored should laboratory analytical results suggest migration has occurred. Sampling will continue until eight consecutive quarters of groundwater results indicate BTEX concentrations are within NMWQCC standards.

LTE appreciates the opportunity to provide this proposed work plan to the NMOCD. If you have any questions or comments regarding this plan, do not hesitate to contact me at (970) 385-1096 or via email at dburns@ltenv.com or Kijun Hong at Williams at (505) 632-4475 or Kijun.Hong@Williams.com.

Sincerely,

LT ENVIRONMENTAL, INC.

Danny Burns
Project Geologist

Ashley Ager, M.S., P.G.
Senior Geologist/Director of Regional

Attachments

- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Table 1 – Groundwater Analytical Results
- Attachment 1 – Laboratory Analytical Report



FIGURES



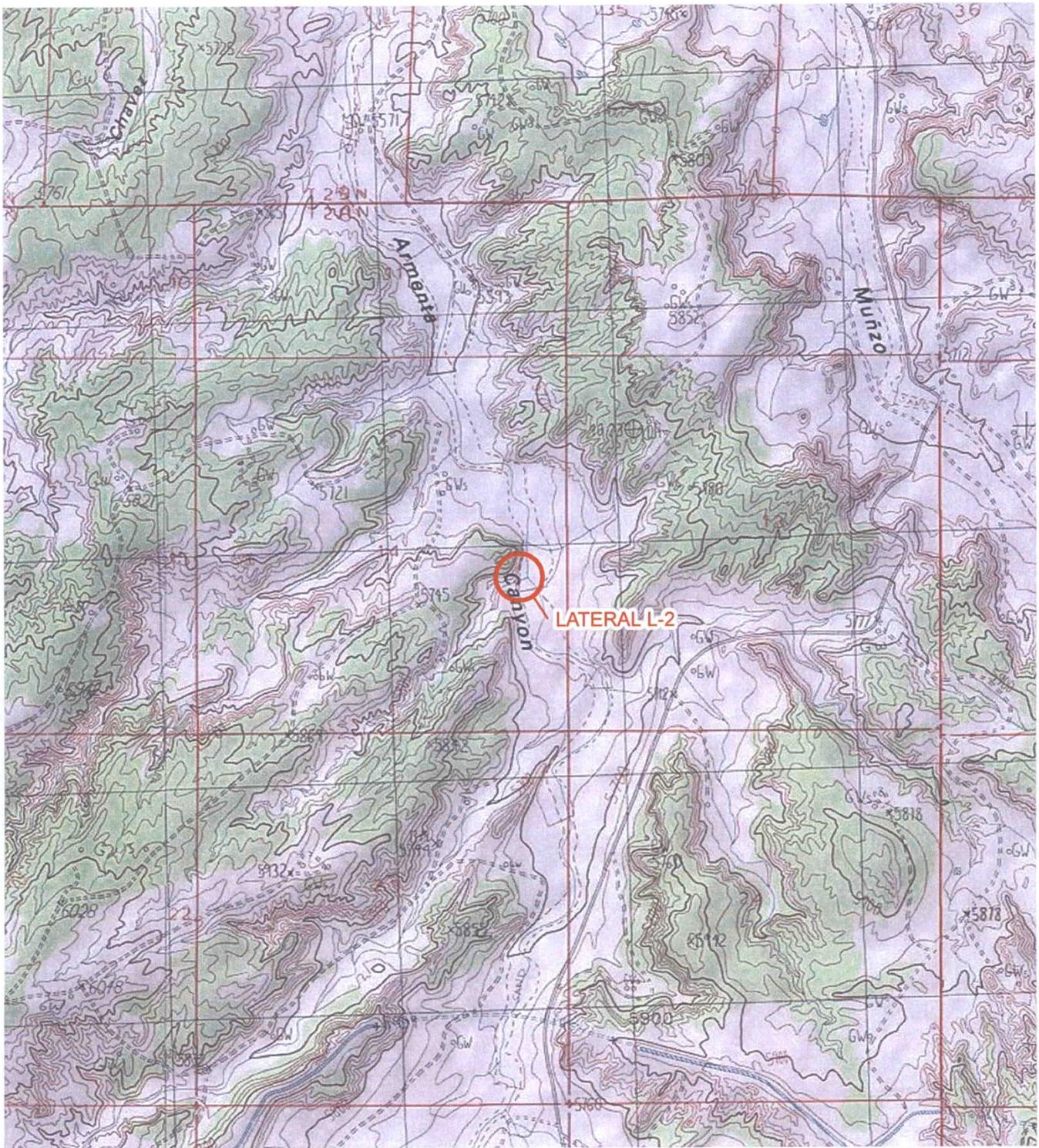


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

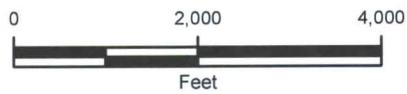


FIGURE 1
SITE LOCATION MAP
LATERAL L-2
NESE SEC 14 T28N R10W
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC





IMAGE COURTESY OF ESRI

LEGEND

-  APPROXIMATE RELEASE LOCATION
-  PROPOSED HYDROPUNCH LOCATION
-  MONITORING WELL
-  SURFACE WATER FLOW DIRECTION
-  PIPELINE
-  ARMENTA WASH BOUNDARY

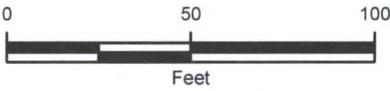


FIGURE 2
SITE MAP
LATERAL L-2
NESE SEC 14 T28N R10W
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC



P:\Williams Four Corners\GIS\MXD\034017003_LATERAL L-2\034017003_LATERAL L-2_FIG02_SITE.mxd

TABLE



TABLE 1
GROUNDWATER ANALYTICAL RESULTS

LATERAL L-2 PIPELINE RELEASE
SAN JUAN COUNTY, NEW MEXICO
WILLIAMS FOUR CORNERS LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)
Lat L-2	10/20/2017	39	4.3	<2.5	<5.0	43
NMWQCC Standard		10	750	750	620	NA

Notes:

µg/L - microgram per liter

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes

NA - Not applicable

NMWQCC - New Mexico Water Quality Control Commission

< - indicates result is below laboratory reporting limit

BOLD indicates result exceeds applicable standard



ATTACHMENT





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 01, 2017

Danny Burns
Williams Four Corners
188 CR 4900
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Lateral L 2

OrderNo.: 1710B82

Dear Danny Burns:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/21/2017 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Four Corners

Client Sample ID: Lat L-2

Project: Lateral L 2

Collection Date: 10/20/2017 10:00:00 AM

Lab ID: 1710B82-001

Matrix: AQUEOUS

Received Date: 10/21/2017 11:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: RAA
Benzene	39	2.5	D	µg/L	5	10/30/2017 1:01:00 PM	SL46753
Toluene	4.3	2.5	D	µg/L	5	10/30/2017 1:01:00 PM	SL46753
Ethylbenzene	ND	2.5	D	µg/L	5	10/30/2017 1:01:00 PM	SL46753
Xylenes, Total	ND	5.0	D	µg/L	5	10/30/2017 1:01:00 PM	SL46753
Surr: 1,2-Dichloroethane-d4	103	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	SL46753
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	SL46753
Surr: Dibromofluoromethane	103	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	SL46753
Surr: Toluene-d8	99.7	70-130	D	%Rec	5	10/30/2017 1:01:00 PM	SL46753

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 Quantitative 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 Detection Limit W Sample container temperature is out of limit as specified
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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1710B82
 01-Nov-17

Client: Williams Four Corners
Project: Lateral L 2

Sample ID rb	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: SL46694		RunNo: 46694							
Prep Date:	Analysis Date: 10/27/2017		SeqNo: 1487911		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID 100ng lcs	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: SL46753		RunNo: 46753							
Prep Date:	Analysis Date: 10/30/2017		SeqNo: 1489945		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.8	70	130			
Toluene	19	1.0	20.00	0	92.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID RB	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: SL46753		RunNo: 46753							
Prep Date:	Analysis Date: 10/30/2017		SeqNo: 1490338		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.5	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

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 Quantitative 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 Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: WILLIAMS FOUR CORN

Work Order Number: 1710B82

RcptNo: 1

Received By: John Caldwell 10/21/2017 11:15:00 AM

John Caldwell

Completed By: Erin Melendrez 10/23/2017 9:56:47 AM

Erin Melendrez

Reviewed By: *JU 10.23.17 @ 1347*

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0° C? Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

