District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 to accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 326-9786**
Facility Name: **San Juan 29-7 #562**	Facility Type: **Gas Well**

Surface Owner **Public**	Mineral Owner **Fee**	API No. **3003924904**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	**24**	**29N**	**07W**	**1105'**	**North**	**1850'**	**East**	**Rio Arriba**

Latitude 36.71563 Longitude -107.51915

NATURE OF RELEASE

Type of Release **Produced Water (Coal Bed)**	Volume of Release **12.7 BBLs**	Volume Recovered **5 BBLs**
Source of Release **Water Tank (Leak)**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **01/20/14 @ 11:30 a.m.**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? **N/A**	Date and Hour **N/A**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

RCVD MAR 27 '14
OIL CONS. DIV.
DIST. 3

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

Describe Cause of Problem and Remedial Action Taken.*
Tank was leaking water out of two holes 15 feet from the bottom on a 20 feet tank. Pumping Unit stopped and tank contents pulled.

Describe Area Affected and Cleanup Action Taken.*
ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary. Release assessment was completed by third-party environmental and Analytical results were below the NMOCD regulatory standards – no further action required at this time. The soil sampling report is attached for review. No further remediation required.

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:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 5/14/14	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **March 25, 2014** Phone: (505) **326-9786**		

* Attach Additional Sheets If Necessary

#NCS 1413430052

14

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

March 18, 2014

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

RE: Release Assessment Report
San Juan 29-7 #562
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On January 24, 2014, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (CoP) San Juan 29-7 #562, located in San Juan County, New Mexico. The release consisted of approximately 12.7 barrels (BBLs) of produced water and was the result of a hole in the upper portion of the produced water tank at the location. The release assessment was completed by AES on January 24, 2014.

1.0 Site Information

1.1 Location

Location – NW¼ NE¼, Section 24, T29N, R7W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.71550 and W107.51982, respectively
Release Location Latitude/Longitude – N36.71575 and W107.52021, respectively
Land Jurisdiction – Private
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, January 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated September 1991 for the San Juan 29-7 #562 reported the depth to groundwater at 170 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** A domestic water well (New Mexico Office of the State Engineer Water Right file number SJ 03391) is located approximately 875 feet southeast of the location. (20 points)
- **Distance to Surface Water Body:** The main wash in Gobernador Canyon is located approximately 260 feet south of the location. (10 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on January 21, 2014, and on January 24, 2014, Debbie Watson, Stephanie Lynn, and Jesse Sprague of AES completed the release assessment field work. The assessment included collection and field screening of 10 soil samples from 6 soil borings from in and around the release area. Two samples, SC-1 and SC-2, were composited from surface samples collected from SB-1 through SB-6 and from samples SB-1, SB-2, SB-4, and SB-5, which ranged from 0.7 to 1.0 foot in depth. Sample locations are presented on Figure 3.

2.0 Soil Sampling

A total of 10 soil samples from 6 borings (SB-1 through SB-6) and 2 composite soil samples (SC-1 and SC-2) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH).

2.1 Field Screening

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.*

2.2 Field Screening Results

On January 24, 2014, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.3 ppm in SB-1 and SB-2 up to 1.0 ppm in SC-1. Field TPH concentrations measured less than 20.0 mg/kg in all samples. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Field Screening VOCs and TPH Results
San Juan 29-7 #562 Release Assessment, January 2014

Sample ID	***Date Sampled***	***Sample Depth (ft bgs)***	***VOCs via OVM (ppm)***	***Field TPH (mg/kg)***
*NMOCD Action Level**			*100*	*100*
SB-1	1/24/2014	Surface	0.4	<20.0
		0.7	0.3	<20.0
SB-2	1/24/2014	Surface	0.3	NA
		1	0.3	NA
SB-3	1/24/2014	Surface	0.4	NA
SB-4	1/24/2014	Surface	0.5	<20.0
		1	0.4	<20.0
SB-5	1/24/2014	Surface	0.5	NA
		1	0.5	<20.0
SB-6	1/24/2014	Surface	0.5	<20.0
SC-1	1/24/2014	Surface	1.0	<20.0
SC-2	1/24/2014	0.7 to 1	0.5	<20.0

NA – not analyzed
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On January 24, 2014, AES conducted a release assessment of produced water impacted soils associated with a release from the onsite produced water tank at the San Juan 29-7 #562. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 30.

Release assessment field screening results were below NMOCD action levels of 100 ppm VOC and 100 mg/kg TPH for all samples. The highest VOC concentration was reported in SC-1 with 1.0 ppm, and all samples reported a TPH concentration of less than 20 mg/kg.

Based on field screening results of the release assessment at the San Juan 29-7 #562, VOCs and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

Jesse E Sprague

Jesse Sprague
Staff Geologist

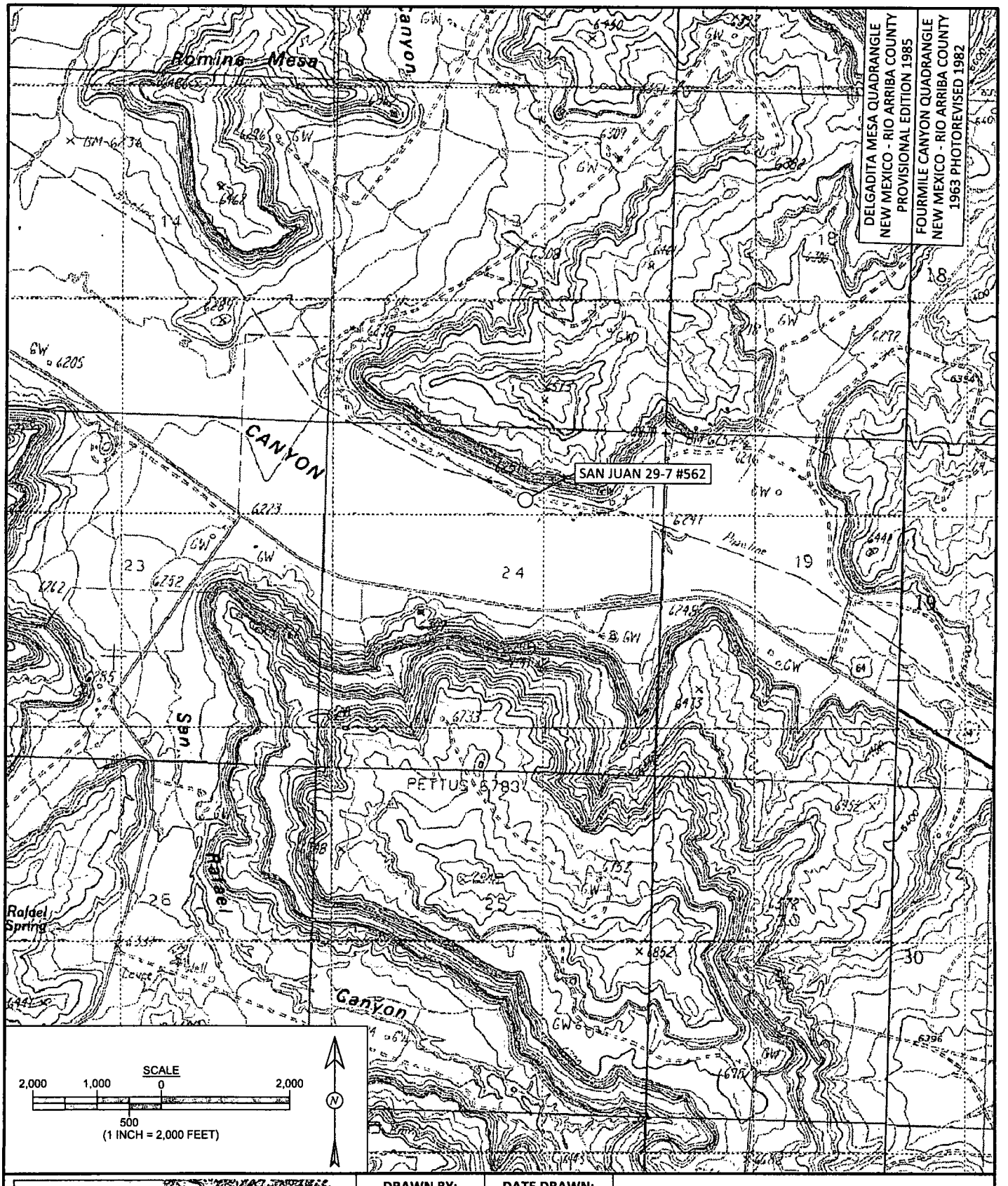
Elizabeth D McNally

Elizabeth McNally, PE

Attachments:

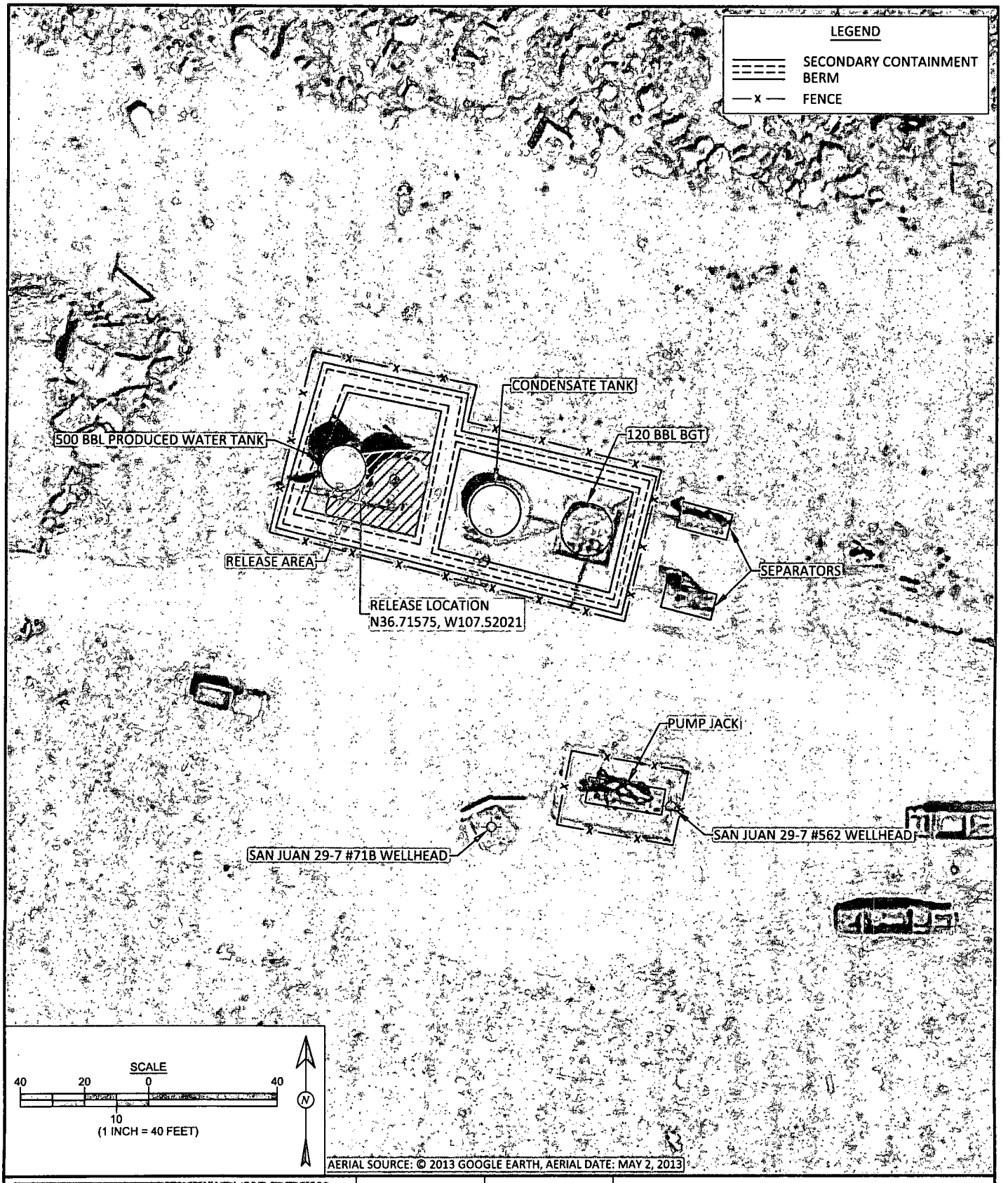
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, January 2014
Figure 3. Releases Assessment Sample Locations and Results, January 2014
AES Field Screening Report 012414

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\SJ 29-7 #562\CoP SJ 29-7 #562 Release Assessment Report 031814.docx



DRAWN BY: S. Glasses	**DATE DRAWN:** January 28, 2014	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** March 4, 2014	**TOPOGRAPHIC SITE LOCATION MAP**
CHECKED BY: D. Watson	**DATE CHECKED:** March 4, 2014	ConocoPhillips SAN JUAN 29-7 #562 NW¼ NE¼, SECTION 24, T29N, R7W RIO ARRIBA COUNTY, NEW MEXICO N36.71550, W107.51982
APPROVED BY: E. McNally	**DATE APPROVED:** March 4, 2014	

AES
Animas Environmental Services, LLC

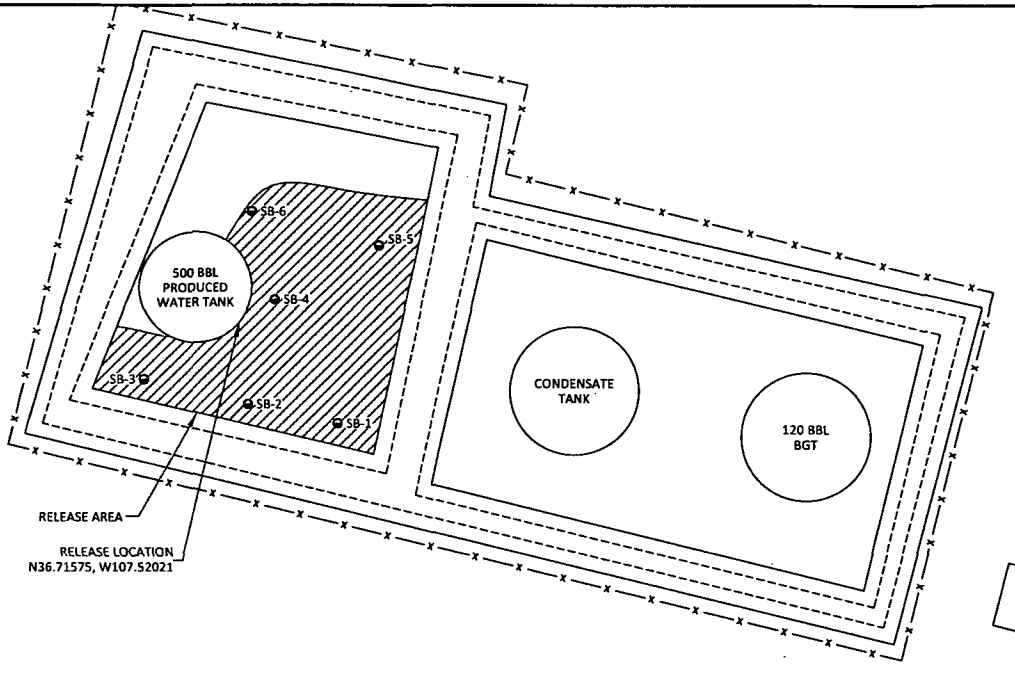


Animas Environmental Services, LLC

DRAWN BY: S. Glasses	**DATE DRAWN:** January 28, 2014	**FIGURE 2**
REVISIONS BY: C. Lameman	**DATE REVISED:** March 4, 2014	**AERIAL SITE MAP JANUARY 2014** ConocoPhillips SAN JUAN 29-7 #562 NW¼ NE¼, SECTION 24, T29N, R7W RIO ARRIBA COUNTY, NEW MEXICO N36.71550, W107.51982
CHECKED BY: D. Watson	**DATE CHECKED:** March 4, 2014	
APPROVED BY: E. McNally	**DATE APPROVED:** March 4, 2014	

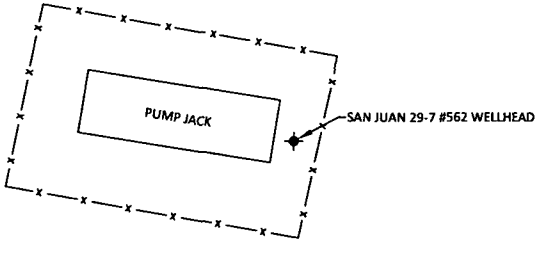
FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS
JANUARY 2014
ConocoPhillips
SAN JUAN 29-7 #562
NW¼ NE¼, SECTION 24, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.71550, W107.51982



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	1/24/14	Surface	0.4	<20.0
	1/24/14	0.7	0.3	<20.0
SB-2	1/24/14	Surface	0.3	NA
	1/24/14	1.0	0.3	NA
SB-3	1/24/14	Surface	0.4	NA
SB-4	1/24/14	Surface	0.5	<20.0
	1/24/14	1.0	0.4	<20.0
SB-5	1/24/14	Surface	0.5	NA
	1/24/14	1.0	0.5	<20.0
SB-6	1/24/14	Surface	0.5	<20.0
SC-1	1/24/14	Surface	1.0	<20.0
SC-2	1/24/14	0.7 to 1.0	0.5	<20.0

SC-1 IS A COMPOSITE SAMPLE OF SB-1 THROUGH SB-6 AT THE SURFACE. SC-2 WAS A COMPOSITE OF SB-1, SB-2, SB-4, AND SB-5 AT 0.7 TO 1.0 FEET.
NA - NOT ANALYZED



SAN JUAN 29-7 #71B WELLHEAD

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	January 28, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	March 4, 2014
CHECKED BY:	DATE CHECKED:
D. Watson	March 4, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	March 4, 2014

LEGEND
- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

N

SCALE
15 9 0 15
3
(1 INCH = 15 FEET)

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 8740
505-564-228
Durango, Colorad
970-403-308

Client: ConocoPhillips

Project Location: San Juan 29-7 #562

Date: 1/24/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ surface	1/24/2014	11:35	0.4	6.7	12:38	20	1	DAW
SB-1 @ 0.7'	1/24/2014	11:37	0.3	11.9	12:40	20	1	DAW
SB-2 @ surface	1/24/2014	11:50	0.3	*Not Analyzed for TPH.*				
SB-2 @ 1'	1/24/2014	11:55	0.3	*Not Analyzed for TPH.*				
SB-3 @ surface	1/24/2014	12:00	0.4	*Not Analyzed for TPH.*				
SB-4 @ surface	1/24/2014	12:05	0.5	6.7	12:42	20	1	DAW
SB-4 @ 1'	1/24/2014	12:08	0.4	13.3	12:45	20	1	DAW
SB-5 @ surface	1/24/2014	12:11	0.5	*Not Analyzed for TPH.*				
SB-5 @ 1'	1/24/2014	12:15	0.5	10.6	12:59	20	1	DAW
SB-6 @ surface	1/24/2014	12:20	0.5	5.4	12:57	20	1	DAW
SC-1	1/24/2014	12:53	1.0	15.6	13:11	20	1	DAW
SC-2	1/24/2014	12:55	0.5	11.9	13:12	20	1	DAW

DF	Dilution Factor
NA	Not Analyzed
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit

**Field TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Deborah Watson

Report Finalized: 1/24/14

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 31, 2014

Debbie Watson
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX (505) 324-2022

RE: CoP San Juan 29-7 #562 OrderNo.: 1401A43

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/25/2014 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1401A43**
Date Reported: **1/31/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: CoP San Juan 29-7 #562
Lab ID: 1401A43-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 1/24/2014 12:53:00 PM
Received Date: 1/25/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	290	7.5		mg/Kg	5	1/28/2014 6:54:12 PM	11440

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401A43**

31-Jan-14

Client: Animas Environmental Services

Project: CoP San Juan 29-7 #562

Sample ID **MB-11440**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **11440**	RunNo: **16369**
Prep Date: **1/28/2014**	Analysis Date: **1/28/2014**	SeqNo: **471961** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-11440**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **11440**	RunNo: **16369**
Prep Date: **1/28/2014**	Analysis Date: **1/28/2014**	SeqNo: **471962** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	5.000	0	278	90	110			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: Animas Environmental Work Order Number: 1401A43 RcptNo: 1

Received by/date: AF 01/25/14

Logged By: Michelle Garcia 1/25/2014 10:20:00 AM Michelle Garcia

Completed By: Michelle Garcia 1/27/2014 12:19:33 PM Michelle Garcia

Reviewed By: AF 01/27/14

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: ☐ eMail ☐ Phone ☐ Fax ☐ 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	4.1	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Animas Environmental Services LLC	☒ Standard ☐ Rush
Mailing Address: 624 E Comanche Farmington NM 87401	Project Name: CoP San Juan 29-7 #562
Phone #: 505 564 2281	Project #:
email or Fax#:	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: S. Lynn
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 4.1 °C

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401A43	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 chlorides				Air Bubbles (Y or N)
1-24-13	1253	soil	SC-1	1-4oz	—	-001												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
1/24/14	1401	Stephanie Alger	Martin Walker	1/24/14	1601	
1/24/14	1700	Martin Walker		1/25/14	10:20	

If necessary, 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 analytical report.