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 **ConocoPhillips Company**	Contact **Crystal Tafoya**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 326-9837
Facility Name: **San Juan 31-6 Unit 206**	Facility Type: **Gas Well**

Surface Owner **BLM**	Mineral Owner **BLM (SF-079012)**	API No.**30-039-24445**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	**4**	**30N**	**6W**	**925**	**South**	**1450**	**West**	**Rio Arriba**

Latitude 36.83674 Longitude 107.47171

NATURE OF RELEASE

Type of Release **Produced Water**	Volume of Release **75 bbls**	Volume Recovered **55 bbls**
Source of Release **Transfer Pump**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **12/13/12 at 11:50am**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Brandon Powell (OCD) & Sherri Landon (BLM)**	
By Whom? **Crystal Tafoya**	Date and Hour **12/13/2012 at 2:43pm**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

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

RCVD MAR 11 '13
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*
Transfer Pump froze and came loose from the connection fitting released 75bbls. A water truck was called to locationa nd 55bbls was recovered. 20 bbls was contained within the berm and remained on location. The well has been shut-in until the transfer pump can be repaired.

Describe Area Affected and Cleanup Action Taken.*
The regulatory standard for closure at this site was determined to be 1000 ppm. Soil samples were taken and then transported to the lab and analytical results for TPH and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

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: Crystal L. Tafoya	OIL CONSERVATION DIVISION Approved by Environmental Specialist: Jonathan D. Kelly
Printed Name: **Crystal Tafoya**	
Title: **Field Environmental Specialist**	Approval Date: 3/11/2013 Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval: Attached ☐
Date: 3/7/2013 Phone: (505) 326-9837	

* Attach Additional Sheets If Necessary

nJK1314153305

15

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

March 4, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

RE: Initial Release Assessment Report
San Juan 31-6 #206
Rio Arriba County, New Mexico

Dear Ms. Tafoya:

On December 28, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment at the San Juan 31-6 #206, located in Rio Arriba County, New Mexico. A transfer pump failed at the location resulting in the release of approximately 75 barrels (bbls) of produced water.

1.0 Site Information

1.1 Location

Location – SW¼ SW¼, Section 4, T30N, R6W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.83656 and W107.47270, respectively
Release Latitude/Longitude - N36.83651, W107.47245, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, December 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection report dated March 1992 for the San Juan 31-6 #206 reported the depth to groundwater as 180 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed tributary to La Jara Canyon is located approximately 300 feet east of the location. Based on this information, the location was assessed a ranking score of 10 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Assessment

AES was initially contacted by Crystal Tafoya of CoP on December 18, 2012, and on the same day, Heather Woods and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 10 soil samples from 5 test holes (TH-1 through TH-5). Competent sandstone was encountered across the assessment area at approximately 2 feet bgs. Sampling locations are shown on Figure 3.

2.0 Soil Sampling

A total of 10 soil samples were collected from five soil borings during the assessment. All soil samples collected were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Additionally, one composite sample SC-1, made from equal portions of samples SB-1 through SB-5 at 0.5 feet bgs, was submitted for confirmation laboratory analysis.

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 per 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 Laboratory Analyses

The soil sample (SC-1) collected for laboratory analysis was placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil sample was laboratory analyzed for:

- Chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

Assessment field screening readings for VOCs via OVM ranged from 0.0 ppm up to 0.2 ppm. Field TPH concentrations ranged from less than 20 mg/kg in SB-3 and SB-4 up to 25.9 mg/kg if SB-2. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs and TPH Results
San Juan 31-6 #206 Initial Release Assessment December 2012

Sample ID	*Date Sampled*	*Sample Depth (ft bgs)*	*VOCs OVM Reading (ppm)*	*Field TPH (mg/kg)*
	NMOCD Action Level*		***100***	***1,000***
SB-1	12/18/12	0.5	0.1	23.3
		2	0.0	NA
SB-2	12/18/12	0.5	0.1	25.9
		2	0.0	NA
SB-3	12/18/12	0.5	0.1	<20.0
		2	0.0	NA
SB-4	12/18/12	0.5	0.2	<20.0
		2	0.1	NA
SB-5	12/18/12	0.5	0.1	22.0
		2	0.1	NA

NA – Not Analyzed
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

The laboratory chloride concentration for SC-1 was 110 mg/kg. Results are included on Figure 2. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Chloride
San Juan 31-6 #206 Release Assessment December 2012

Sample ID	*Date Sampled*	*Depth (ft)*	*Chlorides (mg/kg)*
	NMOCD Action Level*		--
SC-1	12/18/12	0.5	110

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On December 18, 2012, AES conducted a release assessment associated with a 75 barrel produced water release at the San Juan 31-6 #206. Field screening results reported concentrations below the NMOCD action levels of 100 ppm for VOCs and 1,000 mg/kg TPH in all samples (SB-1 through SB-5). Laboratory analytical results reported a chloride concentration of 110 mg/kg for SC-1.

Based on field screening results, VOCs and TPH concentrations were below applicable NMOCD action levels. The release and affected soils will remain on location for in-situ treatment, and no additional work is recommended for the San Juan 31-6 #206 produced water release.

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

Sincerely,

Heather M. Woods

Heather M. Woods
Staff Geologist

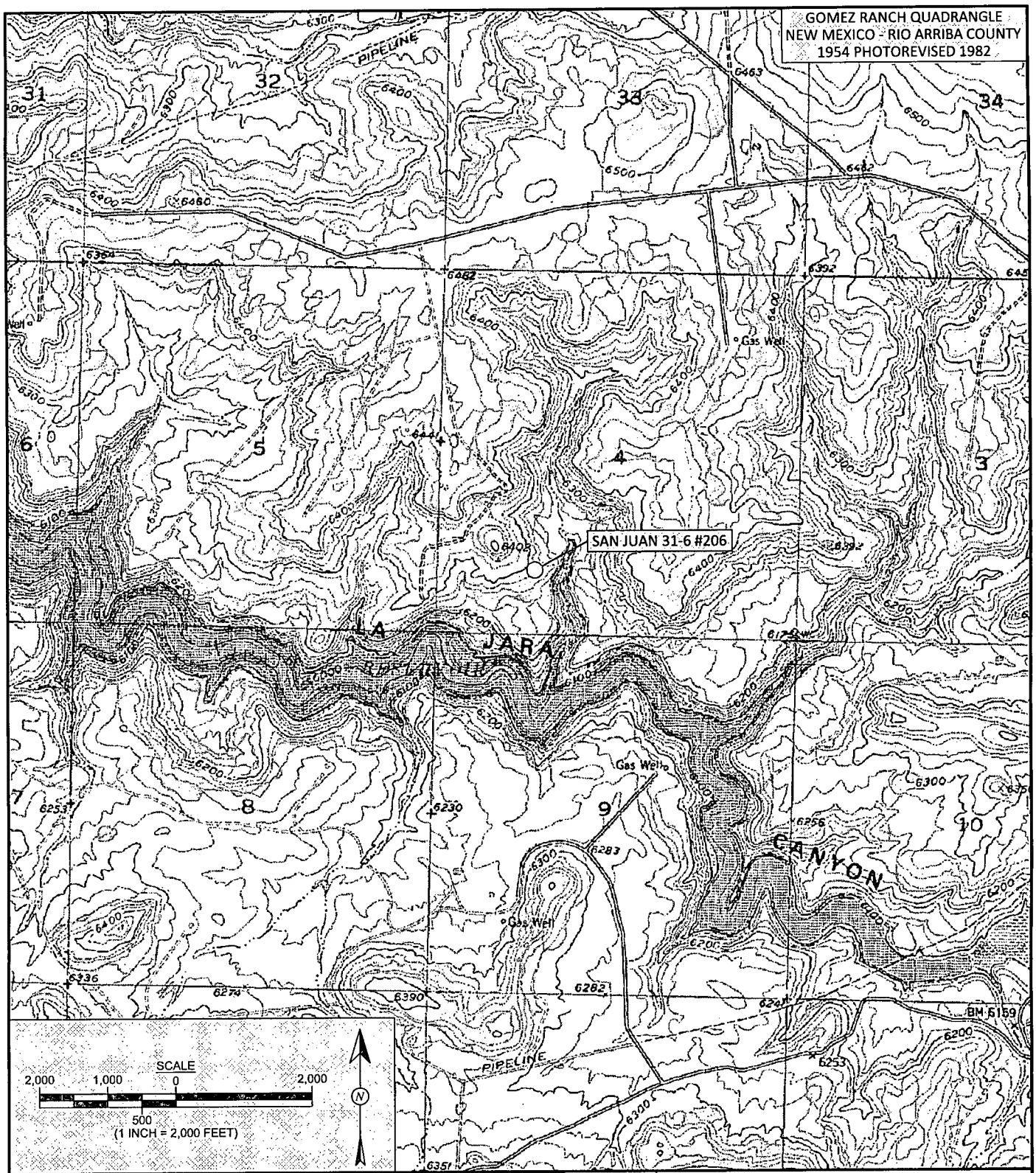
Elizabeth McNally

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, December 2012
Figure 3. Initial Assessment Soil Sample Locations and Results, December 2012
AES Field Screening Report 121812
Hall Analytical Report 1212833

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 31-6 #206\San Juan 31-6 #206 Initial Release Assessment Report 030413.docx



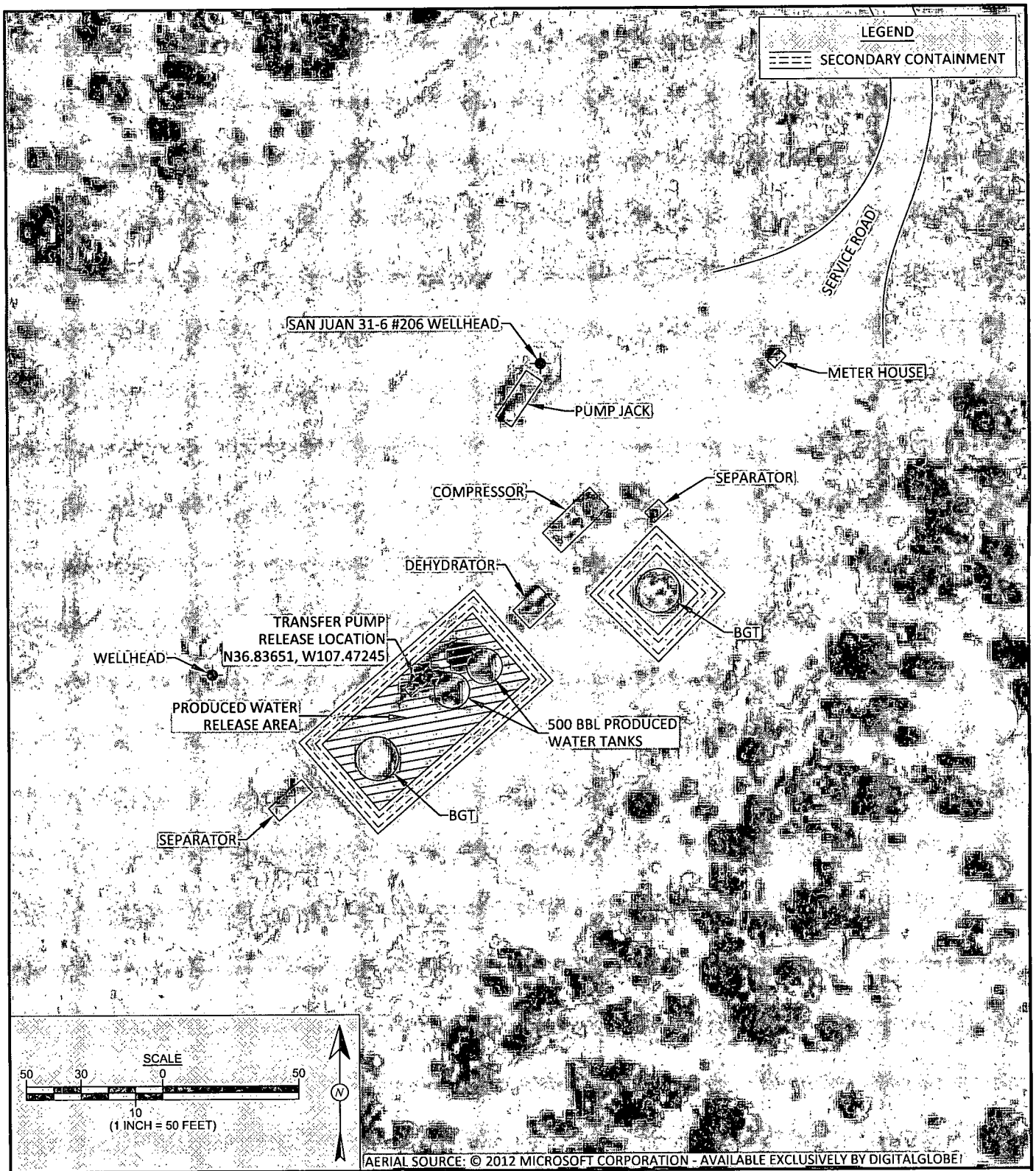
DRAWN BY: C. Lameman	**DATE DRAWN:** December 21, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** December 21, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** December 21, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** December 21, 2012

Animas Environmental Services, LLC

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 31-6 #206
RIO ARRIBA COUNTY, NEW MEXICO
SW¼ SW¼, SECTION 4, T30N, R6W
N36.83656, W107.47270

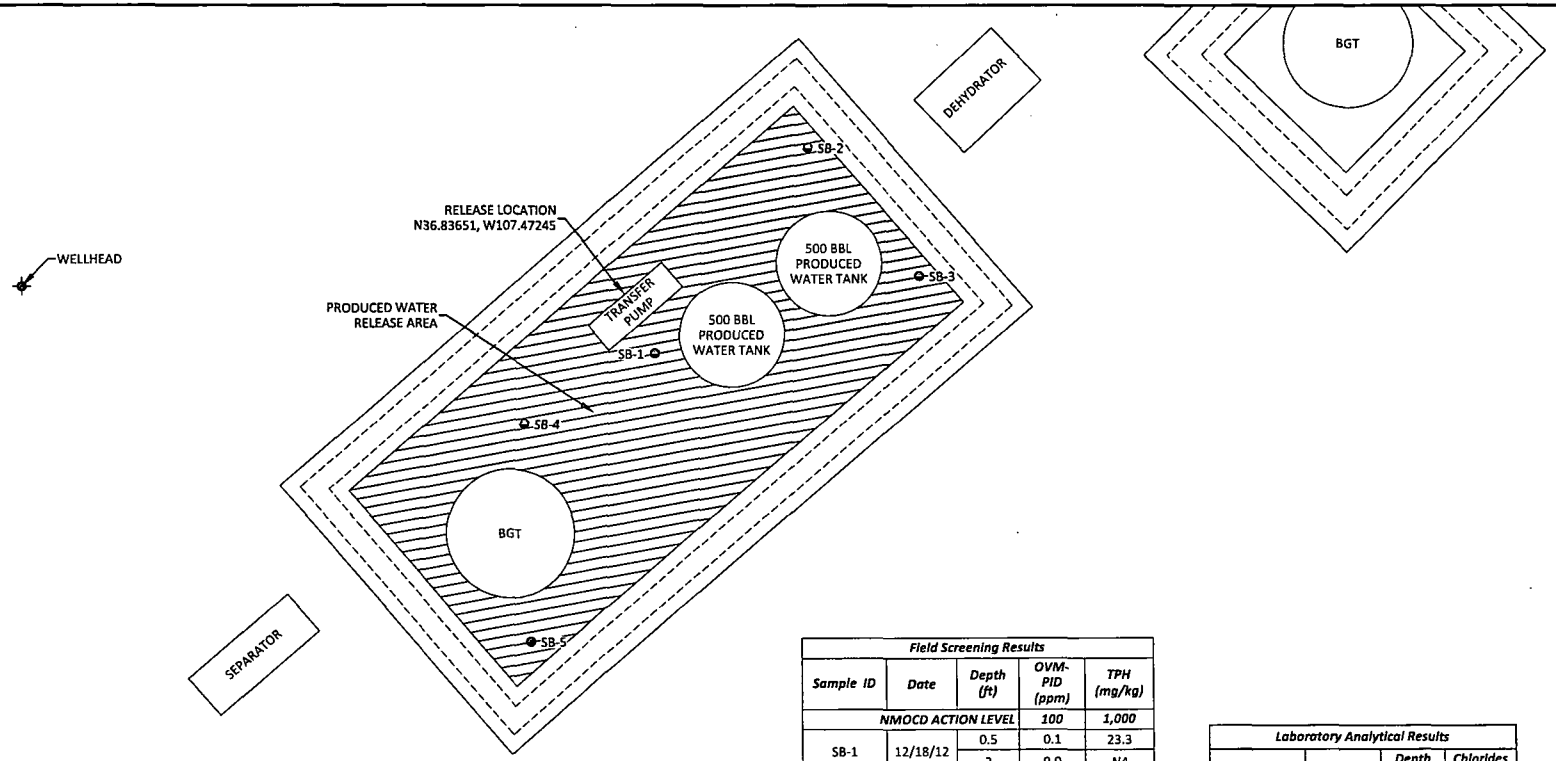


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** December 21, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** December 21, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** December 21, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** December 21, 2012

FIGURE 2

AERIAL SITE MAP
DECEMBER 2012
ConocoPhillips
SAN JUAN 31-6 #206
RIO ARRIBA COUNTY, NEW MEXICO
SW¼ SW¼, SECTION 4, T30N, R6W
N36.83656, W107.47270



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SB-1	12/18/12	0.5	0.1	23.3
		2	0.0	NA
SB-2	12/18/12	0.5	0.1	25.9
		2	0.0	NA
SB-3	12/18/12	0.5	0.1	<20.0
		2	0.0	NA
SB-4	12/18/12	0.5	0.2	<20.0
		2	0.1	NA
SB-5	12/18/12	0.5	0.1	22.0
		2	0.1	NA
NA - NOT ANALYZED				

Laboratory Analytical Results			
Sample ID	Date	Depth (ft)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			--
SC-1	12/18/12	0.5	110
SC-1 IS A 5-POINT COMPOSITE SAMPLE OF SB-1 THROUGH SB-5. SAMPLE WAS ANALYZED PER EPA METHOD 300.0.			

FIGURE 3

INITIAL ASSESSMENT SOIL SAMPLE LOCATIONS AND RESULTS
DECEMBER 2012
ConocoPhillips
SAN JUAN 31-6 #206
RIO ARRIBA COUNTY, NEW MEXICO
SW¼ SW¼, SECTION 4, T30N, R6W
N36.83656, W107.47270

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	December 21, 2012
REVISIONS BY:	**DATE REVISED:**
C. Lameman	December 21, 2012
CHECKED BY:	**DATE CHECKED:**
D. Watson	December 21, 2012
APPROVED BY:	**DATE APPROVED:**
E. McNally	December 21, 2012

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT

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 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 31-6 #206

Date: 12/18/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	12/18/2012	12:35	0.1	13:02	23.3	20.0	1	HMW
SB-1 @ 2'	12/18/2012	12:37	0.0	*Not Analyzed for TPH*				
SB-2 @ 0.5'	12/18/2012	12:39	0.1	13:19	25.9	20.0	1	HMW
SB-2 @ 2'	12/18/2012	12:41	0.0	*Not Analyzed for TPH*				
SB-3 @ 0.5'	12/18/2012	12:43	0.1	13:22	<20.0	20.0	1	HMW
SB-3 @ 2'	12/18/2012	12:46	0.0	*Not Analyzed for TPH*				
SB-4 @ 0.5'	12/18/2012	12:51	0.2	13:39	<20.0	20.0	1	HMW
SB-4 @ 2'	12/18/2012	12:54	0.1	*Not Analyzed for TPH*				
SB-5 @ 0.5'	12/18/2012	12:58	0.1	13:42	22.0	20.0	1	HMW
SB-5 @ 2'	12/18/2012	13:01	0.1	*Not Analyzed for TPH*				

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst: Heather M. Woods

Report Finalized: 12/18/12

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 02, 2013

Debbie Watson

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

RE: COP San Juan 31-6 #206 OrderNo.: 1212833

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/19/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 20, 2012.

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. 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. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1212833**
Date Reported: **1/2/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: COP San Juan 31-6 #206
Lab ID: 1212833-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 12/18/2012 1:52:00 PM
Received Date: 12/19/2012 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	110	30		mg/Kg	20	12/19/2012 1:58:56 PM

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
P	Sample pH greater than 2	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#: **1212833**

03-Jan-13

Client: Animas Environmental Services

Project: COP San Juan 31-6 #206

Sample ID	**MB-5353**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **5353**			RunNo: **7619**					
Prep Date:	**12/19/2012**	Analysis Date: **12/19/2012**			SeqNo: **221302**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-5353**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **5353**			RunNo: **7619**					
Prep Date:	**12/19/2012**	Analysis Date: **12/19/2012**			SeqNo: **221303**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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: 1212833

Received by/date: 12/19/12

Logged By: Ashley Gallegos — 12/19/2012 11:10:00 AM

Completed By: Ashley Gallegos — 12/19/2012 11:28:47 AM

Reviewed By: IO — 12/19/2012

Chain of Custody

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

Log In

		Yes	No	NA
4.	Coolers are present? (see 19. for cooler specific information)	✓		
5.	Was an attempt made to cool the samples?	✓		
6.	Were all samples received at a temperature of >0° C to 6.0°C	✓		
7.	Sample(s) in proper container(s)?	✓		
8.	Sufficient sample volume for indicated test(s)?	✓		
9.	Are samples (except VOA and ONG) properly preserved?	✓		
10.	Was preservative added to bottles?		✓	
11.	VOA vials have zero headspace?			No VOA Vials ✓
12.	Were any sample containers received broken?		✓	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	✓		
14.	Are matrices correctly identified on Chain of Custody?	✓		
15.	Is it clear what analyses were requested?	✓		
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	✓		

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?				✓

Person Notified: Date:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush Same Day

Project Name:
CoP San Juan 31-6 #260

Project #:

Project Manager:
D. Watson

Sampler: H. Woods
On Ice: ☒ Yes ☐ No
Sample Temperature: 1 (0)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1212533	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4) 300.0	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
12/18/12	1352	Soil	SC-1	2 4oz HW 2 oz	—	-001								X								

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/18/12	1730	Heather M. Woods	Christine Walker	12/18/12	1730
12/18/12	1757	Christine Walker		12/19/12	11:10

Remarks: Bill to ConocoPhillips
WO: 9360709
Area: 8
Super: Bowker
User ID: KGARCIA
ordered by: Crystal Taloya

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.