



EAGLE

ENVIRONMENTAL
CONSULTING, INC.

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November 1, 2013

Mr. David Blake Ford
Encana Oil & Gas (USA) Inc.
3601 Stagecoach Road North
Longmont, CO 80504

**SUBSURFACE ASSESSMENT REPORT
IONE 62N66W / NWNE / SEC 2 HZ PAD
NW¼NE¼ SEC.2 T2N R66W 6PM
LAT./LONG.: 40.17344/-104.73981
WELD COUNTY, COLORADO**

Dear Mr. Ford,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Subsurface Assessment Report to Encana Oil & Gas (USA) (Encana) for the above referenced site.

1.0 SITE BACKGROUND

On July 14, 2013, the 400 barrel (BBL) oil/condensate holding tank located on the southwest corner of the tank battery, overflowed. A release of approximately 37 BBLs of condensate occurred within the secondary containment and on the surface immediately adjacent to the containment. Following the release, a vac truck was dispatched to the site to recover the condensate fluid. Approximately 35 BBLs of condensate fluid was recovered. An initial investigation conducted by Encana, indicated that an automation valve was not activated on July 13, 2013.

On July 25, 2013, excavation of impacted soil was conducted at the site. Due to the current infrastructure (tanks and lines) in place within the tank battery, some impacted soil was left in place. Confirmatory soil samples (EWall, WWall, SWall, NWall, EFloor, and WFloor) collected from the walls and floor of the excavation indicated benzene, toluene, total xylene, total petroleum hydrocarbon – gasoline range organic (TPH-GRO), and/or total petroleum hydrocarbon – diesel range organics (TPH-DRO) concentrations exceeding their respective Colorado Oil and Gas Conservation Commission (COGCC) regulatory limits.

Following excavation of accessible soil impacts, a liner was installed within the containment of the tank battery.

2.0 SITE DESCRIPTION

The Ione 62N66W / NWNE / SEC. 2 HZ Pad site is located within the northwest quarter of the northeast quarter of Section 2, Township 2 North, Range 66 west of the 6th Prime Meridian. Based on records on file with the COGCC, six wells feed to the site. A site location map is included as Figure 1.

2.1 Site Hydrogeology

Based on field observations, the site lithology is a clayey sand from the surface to approximately 6 feet below ground surface (bgs). The clayey sand is underlain by a weathered claystone from approximately 6

feet bgs to approximately 16 feet bgs. A hard, claystone, confining layer was observed greater than 16 feet bgs. Groundwater was not observed during or following site assessment activities.

3.0 MONITORING WELL INSTALLATION ACTIVITIES

3.1 Field Work Preparation and Planning

The Utility Notification Center of Colorado (UNCC) was called at least 48 hours in advance of drilling activities to confirm that no unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed. Each boring location was also cleared to a depth of approximately 5 feet bgs, prior to the advancement of any proposed soil boring, with a pothole or “daylighting” rig, to ensure no unmarked utilities were present beneath the boring location. Prior to any subsurface disturbance activities, a Ground Disturbance Form was completed by Encana and EAGLE.

3.2 Soil Boring Advancement/Monitoring Well Completion Activities

On October 18, 2013, EAGLE mobilized to the site to oversee soil boring advancement/monitoring well installation activities. Six soil borings (SB-01 through SB-06) were advanced outside of the bermed area, around the south side of the tank battery.

Following advancement activities, the soil borings were completed as 2-inch groundwater monitoring wells to determine groundwater quality beneath the site. ACI Services, Inc. (ACI) utilized a 7730DT Series Geoprobe track rig to complete drilling activities at the site.

The soil borings were logged in the field for description of soil, soil classification, moisture content, staining, and volatile organic compound (VOC) concentrations. Monitoring wells, SB-01 through SB-06, were completed with 2-inch, schedule 40, poly vinyl chloride (PVC) pipe to total depths between approximately 16-20 feet bgs. Ten to fifteen feet of 0.020 slot, 2-inch, PVC screen was placed at the bottom of each boring followed by 9-10 feet of PVC riser. The well annulus was backfilled with 10/20 silica sand to approximately 1 foot above the screened section followed by a hydrated bentonite seal to the surface. Approximately 4 feet of PVC riser was left above the surface for completion as a “stick-up” well.

Groundwater was not observed in any of the soil borings advanced on October 18, 2013. Since a hard confining layer was observed at approximately 16 feet bgs, EAGLE did not continue drilling activities as to not breach the confining layer and provide a conduit for deeper subsurface impacts.

Soil boring logs/monitoring well completion diagrams is included in Attachment A.

3.3 Soil Sampling Procedures

During soil boring advancement/monitoring well installation activities, soil samples were collected continuously within 5-foot, plastic sample liners. The samples within the plastic liners were separated in 2.5 foot intervals for soil identification and analysis. A portion from each interval was placed in a sealable plastic bag, for VOC headspace analysis utilizing a field calibrated photoionization detector (PID). The bag was sealed, labeled, and allowed to volatilize for approximately five to ten minutes. The other portion of the sample from the same interval was placed in a laboratory supplied, 4-ounce, glass jar and sealed for laboratory analysis. After volatilization, the bagged sample was perforated with the probe of a field PID, using a 10.6 electron volt (eV) lamp, to measure the organic vapor concentration within the

headspace. Organic vapor concentrations were recorded in parts per million by volume (ppm-v) for each sample.

Based on PID reading and sample location above the saturated zone, the soil samples selected for laboratory analysis were placed in an iced cooler for submittal to ESC Lab Sciences located in Mt. Juliet, Tennessee. A representative from ESC Lab Sciences picked up the soil samples under proper chain-of-custody procedures for shipment to the laboratory and the samples were received within Quality Assurance/Quality Control (QA/QC) parameters. The soil samples collected from soil borings SB-01 through SB-06 were submitted for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX) following Environmental Protection Agency (EPA) Method 8021, total petroleum hydrocarbons – gasoline range organics (TPH-GRO) following EPA Method 8015, and total petroleum hydrocarbons – diesel range organics (TPH-DRO) following modified EPA Method 3546.

A summary of PID readings is presented in Table 1. Soil boring logs documenting the lithology observed during advancement activities are included in Attachment A.

3.4 Soil Analytical Results

Based on laboratory analytical results, the soil samples collected from soil borings SB-01 through SB-06 did not exceed their respective laboratory reporting limits.

Soil analytical results are summarized in Table 2, Table 3, and Table 3a. A site map presenting soil sample locations is included as Figure 2. The soil laboratory analytical report is included in Attachment B.

3.5 Passive Soil Vapor Extraction

EAGLE returned to the site on October 28, 2013 to determine if groundwater had infiltrated into the monitoring wells. Based on field observations, groundwater was not observed within any of the monitoring wells. EAGLE converted each monitoring well into passive soil vapor extraction wells (SVE-01 through SVE-06).

Four-inch, whirlybird, turbines were installed on top of each monitoring well. Steel casings were also installed around the PVC portion of the well to protect each monitoring point from damage. Initial VOC concentrations were collected from each monitoring well using a field calibrated PID, prior to turbine installation. Based on PID readings, the VOC concentrations ranged from 0.0 ppm-v in SB-03/SVE-03 to 214 ppm-v in SB-04/SVE-04. Photoionization detector readings collected following the installation of the turbines were observed between 0.0 ppm-v in SB-03/SVE-03 to 152 ppm-v in SB-05/SVE-05.

4.0 CONCLUSIONS

Based on the information collected during site assessment activities, EAGLE concludes the following:

- Soil samples collected from soil borings SB-01 through SB-06 did not contain BTEX, TPH-GRO, or TPH-DRO concentrations exceeding their respective laboratory reporting limits.
- Since groundwater was not observed within any of the monitoring wells, each location was converted to passive soil vapor extraction wells (SVE-01 through SVE-06).

5.0 RECOMMENDATIONS

Based on the information presented in this report, EAGLE recommends the following:

- Since subsurface soil impacts appear defined and a groundwater bearing zone was not encountered above the hard, confining layer, additional assessment activities do not appear warranted at this time.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact me at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.

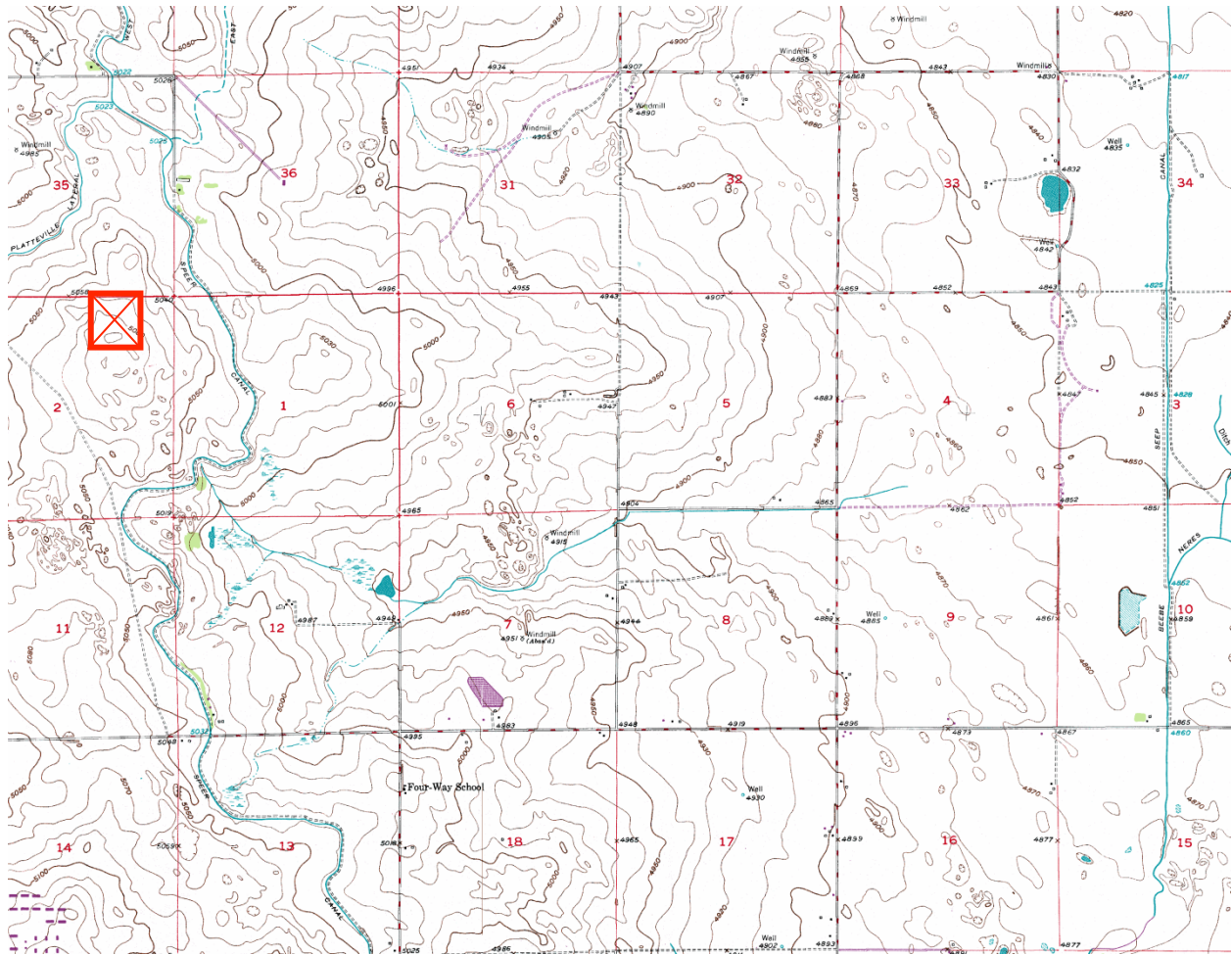


Martin Eckert III
Senior Project Manager

FIGURES

Figure 1: Site Location Map

Figure 2: Soil Sample Location Map



APPROXIMATE LOCATION OF IONE HZ Pad

TOPOGRAPHIC MAP OBTAINED FROM LIBRE MAP PROJECT

MILTON RESERVOIR, WELD, COLORADO QUADRANGLE UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES

FIGURE 1

SITE LOCATION MAP

IONE 62N66W / NWNE / SEC. 2 HZ Pad
 NW¼NE¼ SEC.2 T2N R66W 6PM
 WELD COUNTY, COLORADO



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DRAWN BY: DC

NOT TO SCALE

DATE: 10/16/13

LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- APPROXIMATE SOIL SAMPLE LOCATION
- FL UNDERGROUND FLOW LINE
- APPROXIMATE EXTENTS OF EXCAVATION
- APPROXIMATE LOCATION OF COMBUSTOR

PARAMETERS

SAMPLE LOCATON
 DEPTH (FEET)
 DATE
 B = BENZENE (mg/kg)
 T = TOLUENE (mg/kg)
 E = ETHYLBENZENE (mg/kg)
 X = TOTAL XYLENES (mg/kg)
 G = TPH-GRO (mg/kg)
 D = TPH-DRO (mg/kg)

mg/kg =MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS

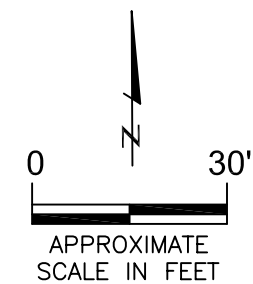
VALUES PRESENTED IN BOLD TYPEFACE EXCEED THE COLORADO OIL AND GAS CONSERVATION COMMISSION REGULATORY LIMIT FOR THAT COMPOUND.

VALUES PRESENTED WITH A "<" SYMBOL INDICATED CONCENTRATIONS WERE NOT OBSERVED ABOVE THE COMPOUNDS LABORATORY REPORTING LIMIT.

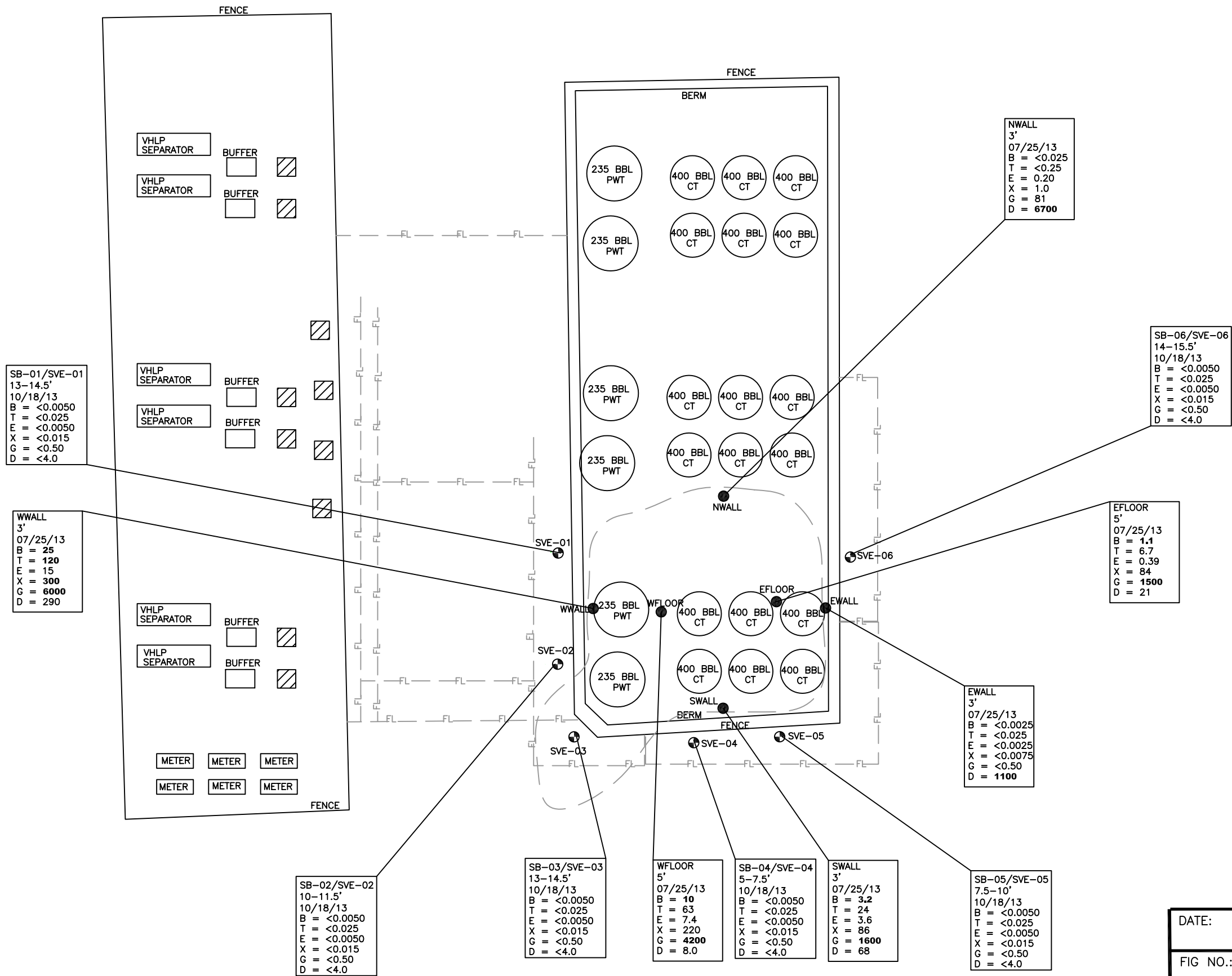
BBL = BARREL

CT = CONDENSATE TANK

PWT = PROCESSED WATER TANK



SOIL SAMPLE LOCATION MAP
 IONE 62N66W / NWNE / SEC 2 HZ PAD
 NW¼ NE¼ SEC2 T2N R66W 6PM
 WELD COUNTY, COLORADO



DATE:	10/29/13	
FIG NO.:	2	DRAWN BY: mce



TABLES

Table 1: Soil Sample Photoionization Detector Readings Summary

Table 2: Soil Analytical Results Summary

Table 3: Soil Analytical Results Summary – Semi Volatile Organics

Table 3a: Soil Analytical Results Summary – Metals/Inorganics

TABLE 1
SOIL SAMPLE PHOTOIONIZATION DETECTOR READINGS SUMMARY
IONE 62N66W / NWNW / SEC 2 HZ PAD
NW¼ NE¼ SEC2 T2N R66W 6PM
WELD COUNTY, COLORADO

Sample Location	Date	Sample Depth (feet)	OVM Reading (ppm-v)	Laboratory Analyzed
SB-01	10/18/13	7.5	0.1	No
SB-01	10/18/13	10.0	0.6	No
SB-01	10/18/13	11.5	1.3	No
SB-01	10/18/13	13.0	1.3	No
SB-01	10/18/13	14.5	1.7	Yes
SB-01	10/18/13	16.0	0.2	No
SB-02	10/18/13	7.5	1.4	No
SB-02	10/18/13	10.0	0.6	No
SB-02	10/18/13	11.5	2.3	Yes
SB-02	10/18/13	13.0	1.2	No
SB-02	10/18/13	14.5	1.3	No
SB-02	10/18/13	16.0	1.1	No
SB-03	10/18/13	7.50	2.0	No
SB-03	10/18/13	10.0	0.3	No
SB-03	10/18/13	11.5	2.7	No
SB-03	10/18/13	13.0	1.1	No
SB-03	10/18/13	14.5	5.5	Yes
SB-03	10/18/13	16.0	2.2	No
SB-04	10/18/13	7.5	106.9	Yes
SB-04	10/18/13	10.0	71.9	No
SB-04	10/18/13	11.5	16.6	No
SB-04	10/18/13	13.0	12.6	No
SB-04	10/18/13	14.5	19.8	No
SB-04	10/18/13	16.0	10.9	No
SB-05	10/18/13	7.5	30.2	No
SB-05	10/18/13	10.0	226.9	Yes
SB-05	10/18/13	11.5	77.8	No
SB-05	10/18/13	13.0	44.6	No
SB-05	10/18/13	14.5	32.5	No
SB-05	10/18/13	16.0	47.0	No
SB-06	10/18/13	7.5	5.1	No
SB-06	10/18/13	10.0	16.9	No
SB-06	10/18/13	12.0	17.7	No
SB-06	10/18/13	14.0	8.6	No
SB-06	10/18/13	15.5	24.7	Yes
SB-06	10/18/13	17.0	7.1	No
OVM = Organic Vapor Meter ppm-v = parts per million by volume				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
IONE 62N66W / NWNE / SEC 2 HZ PAD
NW¼ NE¼ SEC2 T2N R66W 6PM
WELD COUNTY, COLORADO

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
COGCC Table 910-1 Regulatory Limit (mg/kg)			0.17	85	100	175	500	
NWALL 40.173228/-104.737911	07/25/13	3.0	<0.025	<0.25	0.20	1.0	81	6700
EWALL (40.173166/-104.737814)	07/25/13	3.0	<0.0025	<0.025	<0.0025	<0.0075	<0.50	1100
SWALL (40.173119/-104.737917)	07/25/13	3.0	3.2	24	3.6	86	1600	68
WWALL (40.173175/-104.738058)	07/25/13	3.0	25	120	15	300	6000	290
WFLOOR (40.173179/-104.7737984)	07/25/13	5.0	10	63	7.4	220	4200	8.0
EFLOOR (40.173165/-104.737864)	07/25/13	5.0	1.1	6.7	0.39	84	1500	21
SB-01/SVE-01 (40.173251803/-104.738071086)	10/18/13	14.5	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0
SB-02/SVE-02 (40.173167932/-104.738077482)	10/18/13	11.5	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0
SB-03/SVE-03 (40.173126961/-104.738043558)	10/18/13	14.5	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0
SB-04/SVE-04 (40.173115226/-104.737932815)	10/18/13	7.5	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0
SB-05/SVE-05 (40.173111356/-104.737849381)	10/18/13	10.0	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0
SB-06/SVE-06 (40.173246978/-104.737778282)	10/18/13	15.5	<0.0050	<0.025	<0.0050	<0.015	<0.50	<4.0

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

NA = Not Analyzed

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

mmhos/cm = millimhos per centimeter

SAR = Sodium Adsorption Ratio

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limits.

TABLE 3
 SOIL ANALYTICAL RESULTS SUMMARY - SEMI VOLATILE ORGANICS
 IONE 62N66W / NWNE / SEC 2 HZ PAD
 NW¼ NE¼ SEC 2 T2N R66W 6PM
 WELD COUNTY, COLORADO

ORGANICS															
Sample Location	Date	Approximate Depth (feet)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(A)anthracene (mg/kg)	Benzo(B)fluoranthene (mg/kg)	Benzo(k)fluoranthene (mg/kg)	Benzo(A)pyrene (mg/kg)	Chrysene (mg/kg)	Dibenzo(A,H)anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3,C,D)pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 910-1 Regulatory Limit (mg/kg)			1,000	1,000	0.22	0.22	2.2	0.022	22	0.022	1,000	1,000	0.22	23	1,000
WWALL	7/25/13	3.0	0.58	0.71	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	1.4	<0.12	3.6	0.17

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

< = indicates result is less than the stated laboratory reporting limit

NA = Not analyzed

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limits.

TABLE 3A
 SOIL ANALYTICAL RESULTS SUMMARY - METALS/INORGANICS
 IONE 62N66W / NWNE / SEC 2 HZ PAD
 NW¼ NE¼ SEC 2 T2N R66W 6PM
 WELD COUNTY, COLORADO

Sample Location	Date	Approximate Depth (feet)	Metals											Inorganics				
			Arsenic (mg/kg)	Barium (mg/kg)	Boron (mg/L)	Cadmium (mg/kg)	Chromium (III) (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Electrical Conductivity (EC)	Sodium Adsorption Ratio (SAR)	pH
COGCC Table 910-1 Regulatory Limit (mg/kg)			0.39	15,000	2	70	120,000	23	3,100	400	23	1,600	390	390	23,000	<4mmhos/cm	<12^{1/2}	6-9
WWALL	7/25/13	3.0	3.0	60	NA	<0.25	6.9	<2.0	4.4	5.1	0.024	4.5	1.0	<0.50	18	81	0.91	7.1

COGCC = Colorado Oil and Gas Conservation Commission

NA = Not Analyzed

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

< = indicates result is less than the stated laboratory reporting limit

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limits.

ATTACHMENT A

Soil Boring Logs/Monitoring Well Completion Diagrams

Boring Log/Well Completion Diagram: SB-01/SVE-01

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed							stick up Bentonite Chips 2" Dia. Sch. 40 PVC Riser		
5	clayey SAND - brown, loose, fine-med. grained, well-sorted w/ ~10-15% clay, dry, N/O, N/S	SC	GP	1	95	0.1	-	10/20 Silica Sand Pack		
10	weathered CLAYSTONE - grayish brown to gray, very hard, dry, N/O, slight ferrous staining	CL	GP	2	100	1.3	--	2" Dia. Sch. 40 Slotted PVC (0.010")		
						1.3	--			
15						1.7	-			
15	BoB @ 16 FT					0.2		2" End Cap		
20										
25										
30										

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13	SAND PACK INTERVAL (FT): 4-16
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD	BENTONITE/GROUT INTERVAL (FT): 0 - 4
LOGGED BY: A. NEWBERRY	WELL SCREEN INTERVAL (FT): 6-16
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE	WELL DIAMETER (IN): 2
BORING DEPTH (FT): 16	WELL DEPTH (FT): 16
PID INSTRUMENT: MINI RAE 3000	
TIME STARTED/COMPLETED: 1358 / 1420	
SAMPLE COLLECTION DEPTH/TIME: 13 - 14.5' @ 1415	



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Boring Log/Well Completion Diagram: SB-02/SVE-02

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed							stick up Bentonite Chips 2" Dia. Sch. 40 PVC Riser		
5	clayey SAND - brown, loose, fine-med. grained, well-sorted w/ ~15% clay, dry, N/O, N/S	SC	GP	1	85	1.4	-	10/20 Silica Sand Pack		
10	weathered CLAYSTONE - grayish brown, hard, dry, N/O, slight ferrous staining	CL	GP	2	100	2.3	--	2" Dia. Sch. 40 Slotted PVC (0.010")		
						1.2				
15						1.3	-			
15	BoB @ 16 FT					1.1		2" End Cap		
						1.1				

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13	SAND PACK INTERVAL (FT): 4-16
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD	BENTONITE/GROUT INTERVAL (FT): 0 - 4
LOGGED BY: A. NEWBERRY	WELL SCREEN INTERVAL (FT): 6-16
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE	WELL DIAMETER (IN): 2
BORING DEPTH (FT): 16	WELL DEPTH (FT): 16
PID INSTRUMENT: MINI RAE 3000	
TIME STARTED/COMPLETED: 1324 / 1355	
SAMPLE COLLECTION DEPTH/TIME: 10- 11.5' @ 1345	



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Boring Log/Well Completion Diagram: SB-03/SVE-03

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed									
5	sandy CLAY - gray to brown, moderately stiff, mod. plasticity, well-sorted w/ ~15-20% fine-med. grained sand, dry, N/O, N/S	CL	GP	1	100	2.0	-			
10	weathered CLAYSTONE - grayish brown, high plasticity, very hard, dry, N/O, slight ferrous staining	CH	GP	2	70	0.3	-			
10						2.7	-			
15			1.1	-						
15	Unable to sample due to refusal at 16 ft.		GP	3	100	5.5	-			
15						2.2	-			
20	BoB @ 20 FT									
25										
30										

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13		SAND PACK INTERVAL (FT): 3-20	
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD		BENTONITE/GROUT INTERVAL (FT): 0 - 3	
LOGGED BY: A. NEWBERRY		WELL SCREEN INTERVAL (FT): 5-20	
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE		WELL DIAMETER (IN): 2	
BORING DEPTH (FT): 20	WELL DEPTH (FT): 20	<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 - F: 303-325-5449</p>	
PID INSTRUMENT: MINI RAE 3000			
TIME STARTED/COMPLETED: 1010 / 1115			
SAMPLE COLLECTION DEPTH/TIME: 13 - 14.5' @ 1100			

Boring Log/Well Completion Diagram: SB-04/SVE-04

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed							stick up Bentonite Chips 2" Dia. Sch. 40 PVC Riser		
5	clayey SAND - lt. brown, loose, fine-med. grained, well-sorted w/ ~10-15% clay, dry, N/O, N/S	sc	GP	1	85	106.9	-	10/20 Silica Sand Pack		
10	weathered CLAYSTONE - grayish brown, very hard, dry, N/O, slight ferrous staining	cl	GP	2	100	16.6	--	2" Dia. Sch. 40 Slotted PVC (0.010")		
						12.6				
15			GP	3	100	19.8	-			
						10.9				
16	BoB @ 16 FT							2" End Cap		

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13	SAND PACK INTERVAL (FT): 4-16
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD	BENTONITE/GROUT INTERVAL (FT): 0 - 4
LOGGED BY: A. NEWBERRY	WELL SCREEN INTERVAL (FT): 6-16
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE	WELL DIAMETER (IN): 2
BORING DEPTH (FT): 16	WELL DEPTH (FT): 16
PID INSTRUMENT: MINI RAE 3000	
TIME STARTED/COMPLETED: 1140 / 1215	
SAMPLE COLLECTION DEPTH/TIME: 5 - 7.5' @ 1210	



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Boring Log/Well Completion Diagram: SB-05/SVE-05

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	0-5' Potholed									
5	sandy CLAY - brown, moderately stiff, low-mod. plasticity, well-sorted w/ ~25-30% fine-med. grained sand, dry, N/O, N/S	CL	GP	1	100	30.2	-			
10	weathered CLAYSTONE - grayish brown, mod-high plasticity, very hard, dry, N/O, slight ferrous staining	CH	GP	2	70	226.9	-			
						77.8	-			
15		GP	3	100	32.5	-				
15						47.0				
16	BoB @ 16 FT									
20										
25										
30										

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13	SAND PACK INTERVAL (FT): 4-16
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD	BENTONITE/GROUT INTERVAL (FT): 0 - 4
LOGGED BY: A. NEWBERRY	WELL SCREEN INTERVAL (FT): 6-16
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE	WELL DIAMETER (IN): 2
BORING DEPTH (FT): 16	WELL DEPTH (FT): 16
PID INSTRUMENT: MINI RAE 3000	
TIME STARTED/COMPLETED: 1220 / 1245	
SAMPLE COLLECTION DEPTH/TIME: 7.5 - 10' @ 1240	



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Boring Log/Well Completion Diagram: SB-06/SVE-06

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0								stick up		
0-5'	Potholed							Bentonite Chips		
5								2" Dia. Sch. 40 PVC Riser		
5-10'	clayey SAND - brown, loose, fine-coarse grained, well-sorted w/ ~ 15% clay, dry, N/O, N/S	sc	GP	1	100	5.1	--	10/20 Silica Sand Pack		
10								2" Dia. Sch. 40 Slotted PVC (0.010")		
10-15'	weathered CLAYSTONE - grayish brown, mod-high plasticity, very hard, dry, N/O, N/S	CL-CH	GP	2	100	17.7	--			
15						8.6				
15-20'			GP	3	100	24.7	-			
20						7.1		2" End Cap		
20-30'	BoB @ 17 FT									

ft. = feet
 BoB = Bottom of Boring
 N/O = No Odor
 N/S = No Staining

START/COMPLETION DATE: 10/18/13	SAND PACK INTERVAL (FT): 5-17
PROJECT: IONE 62N66W/NWNE SEC. 2 HZ PAD	BENTONITE/GROUT INTERVAL (FT): 0-5
LOGGED BY: A. NEWBERRY	WELL SCREEN INTERVAL (FT): 7-17
DRILLING COMPANY/EQUIPMENT: ACI / GEOPROBE	WELL DIAMETER (IN): 2
BORING DEPTH (FT): 17	WELL DEPTH (FT): 17
PID INSTRUMENT: MINI RAE 3000	
TIME STARTED/COMPLETED: 1250 / 1315	
SAMPLE COLLECTION DEPTH/TIME: 14 - 15.5' @ 1300	



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 CONSULTING, INC.
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ATTACHMENT B


Laboratory Analytical Report

Company Name/Address
ENCANLCO-EAGLE
 Encana Oil and Gas
 3601 Stagecoach Rd.
 Longmont, CO 80504

Alternate Billing
 Encana Oil and Gas
 Attn; Blake Ford
 Longmont CO 80504
 Report to: B. Ford, Martin Eckert III
 enviro.com

Analysis/Container/Preservative						

E093

Prepared by:
 **ENVIRONMENTAL Science corp**
 12065 Lebanon Road
 Mt. Juliet TN 37122
 Phone (615)758-5858
 Phone (800) 767-5859
 FAX (615)758-5859

Project Description: **IONE NEZH Spill**
 PHONE: 970-379-5558
 FAX:
 Collected by: *Andrew Newberry*
 Collected by (signature): *And N-G*
 Packed on Ice N Y

Client Project No. **ENCANLCO-EAGLE**
 Lab Project #
 Site/Facility ID# **IONE NE 2H**
 P.O.#
 Rush? (Lab MUST be Notified)
 Same Day.....200%
 Next Day.....100%
 Two Day.....50%
 Date Results Needed
 Email? No Yes
 FAX? No Yes

CoCode (lab use only)
ENCANLCO-EAGLE
 Template/Prelogin
 Shipped Via: Denver Service Center

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	Analysis/Container/Preservative							Remarks/contaminant	Sample # (lab only)	
IONE NEZH-SB-01-101813	Grab	SS	13-14.5'	10-18-13	1415	3	X	X	X							6064202-01
IONE NEZH-SB-02-101813			10-11.5'		1345											02
IONE NEZH-SB-03-101813			13-14.5'		1100											03
IONE NEZH-SB-04-101813			5-7.5'		1210											04
IONE NEZH-SB-05-101813			7.5-10'		1240											05
IONE NEZH-SB-06-101813	↓	↓	14-15.5'	↓	1300	↓	↓	↓	↓							06

*Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____
 pH _____ Temp _____
 Remarks: _____
 Flow _____ Other _____

Relinquisher by: (Signature) <i>And N-G</i>	Date: 10-18-13	Time: 5:00	Received by: (Signature) <i>[Signature]</i>	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____	Condition <i>5</i> (lab use only)
Relinquisher by: (Signature) <i>[Signature]</i>	Date: 10-18-13	Time: 5:30	Received by: (Signature) <i>[Signature]</i>	Temp: 3.9	Bottles Received: 18
Relinquisher by: (Signature) <i>[Signature]</i>	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 10/19/13	Time: 0930



12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

Martin Eckert / Daniel Coloccia
EnCana Oil & Gas - Longmont, CO
3601 Stagecoach Rd
Longmont, CO 80504

Report Summary

Thursday October 31, 2013

Report Number: L664202


Samples Received: 10/19/13

Client Project:

Description: IONE NE2H Spill

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-01-101813 13-14.5'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 14:15

ESC Sample # : L664202-01
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.7		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	102.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	96.7		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/26/13	1
Surrogate recovery(%)						
o-Terphenyl	78.9		% Rec.	3546/DRO	10/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/28/13 11:04 Revised: 10/31/13 15:16



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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-02-101813 10-11.5'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 13:45

ESC Sample # : L664202-02
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.7		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	103.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	99.3		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/25/13	1
Surrogate recovery(%)						
o-Terphenyl	50.1		% Rec.	3546/DRO	10/25/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-03-101813 13-14.5'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 11:00

ESC Sample # : L664202-03
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.5		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	106.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	102.		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/26/13	1
Surrogate recovery(%)						
o-Terphenyl	69.6		% Rec.	3546/DRO	10/26/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-04-101813 5-7.5'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 12:10

ESC Sample # : L664202-04
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.8		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	109.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	105.		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/25/13	1
Surrogate recovery(%)						
o-Terphenyl	66.9		% Rec.	3546/DRO	10/25/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-05-101813 7.5-16'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 12:40

ESC Sample # : L664202-05
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.3		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	102.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	98.7		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/25/13	1
Surrogate recovery(%)						
o-Terphenyl	58.3		% Rec.	3546/DRO	10/25/13	1

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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REPORT OF ANALYSIS

Martin Eckert / Daniel Coloccia
 EnCana Oil & Gas - Longmont, CO
 3601 Stagecoach Rd
 Longmont, CO 80504

October 31, 2013

Date Received : October 19, 2013
 Description : IONE NE2H Spill
 Sample ID : IONENE2H-SB-06-101813 14-15.5'
 Collected By : Andrew Newberry
 Collection Date : 10/18/13 13:00

ESC Sample # : L664202-06
 Site ID : IONE NE 2H
 Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/23/13	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.4		% Rec.	602/8015	10/23/13	5
Benzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Toluene	BDL	0.025	mg/kg	8260B	10/24/13	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	10/24/13	5
Total Xylenes	BDL	0.015	mg/kg	8260B	10/24/13	5
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/24/13	5
Dibromofluoromethane	113.		% Rec.	8260B	10/24/13	5
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	10/24/13	5
4-Bromofluorobenzene	105.		% Rec.	8260B	10/24/13	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	10/25/13	1
Surrogate recovery(%)						
o-Terphenyl	62.5		% Rec.	3546/DRO	10/25/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/28/13 11:04 Revised: 10/31/13 15:16