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: pPLM0830331859

1RP - 1991

CONOCO INC

2/9/2016

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

RECEIVED
OCT 29 2008
HOBBS OCD

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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **MCA Station 2 Laguna**	Facility Type **Oil and Gas**

Surface Owner **BLM**	Mineral Owner **BLM**	Lease No API 300250073400

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	21	17S	R32E					Lea

Latitude N 32degrees 48.680 Longitude W 103degrees 46.484

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **422bbl (422oil, 0water)**	Volume Recovered **(332oil, 0water)**
Source of Release **Tank**	Date and Hour of Occurrence **10-24-08 0330**	Date and Hour of Discovery **10-24-08 0630**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Geoffrey Leking NMOCD & Trishia Bad Bear BLM**	
By Whom?	Date and Hour **10-24-08 1600 hours**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Release was due to pump malfunction. Production was blocked. Tank was isolated and shut in.

Describe Area Affected and Cleanup Action Taken.*
Affected area was 2,800 feet long X 8 feet wide X 4 inches deep area of dry pasture land with no cattle present and a 70 feet long X 70 feet wide X 1/2" deep area of caliche pad and road. Spill site will be delineated and remediated in accordance with NMOCD and BLM guidelines Well number API 300250073400 is the closest well to the release site.

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: John W. Gates

Printed Name: **John W. Gates**

Title: **HSER Lead**

E-mail Address: **John.W.Gates@conocophillips.com**

Date: **10-25-08** Phone: **505.391.3158**

OIL CONSERVATION DIVISION

Approved by District Supervisor: Johnson
ENVIRONMENTAL ENGINEER

Approval Date: 10.29.08 Expiration Date: 12.29.08

Conditions of Approval:

Attached ☐
IRP-1991

- Attach Additional Sheets If Necessary

REMEDIATION PROPOSAL

MCA LAGUNA RELEASE AREA

NMOCD #1RP-1991
EPI REF: 150035

UL-D (NW¼ OF THE NW¼) OF SECTION 28, T17S, R32E
~3.4 MILES SOUTHWEST OF MALJAMAR,
LEA COUNTY, NEW MEXICO
LATITUDE: N 32° 48' 39.87" LONGITUDE: W 103° 46' 28.50"

MAY 2012

PREPARED BY:

ENVIRONMENTAL PLUS, INC.
2100 AVENUE "O"
P.O. BOX 1558
EUNICE, NEW MEXICO 88231

PREPARED FOR:

ConocoPhillips

10 May 2012

Mr. Geoffrey Leking
Environmental Engineer
New Mexico Oil Conservation Division
1265 North French Drive
Hobbs, New Mexico 88240

RE: Remediation Proposal – MCA Laguna Release Area
ConocoPhillips Corporation
UL-D (NW1/4 of the NW1/4) of Section 28, T 17S, R 32 E
Lea County, New Mexico
Latitude: 32° 48' 39.87"; Longitude: 103° 46' 28.50"
NMOCD Ref. #1RP-1991; EPI Ref. #150035

Dear Mr. Leking:

The below *Remediation Proposal* (*Proposal*) is designed to bring the above referenced Release Area into conformance with New Mexico Oil Conservation Division (NMOCD) Guidelines. References will be included to update NMOCD and Bureau of Land Management (BLM) representatives of previous remedial activities. For clarity and cross references elimination purposes, the *Proposal* includes *Release History, Site Background, Preliminary Field Work, Analytical Data and Procedures* and *Field Remediation Proposals*.

Release History

Release of product from an open top tank has inundated the MCA Laguna Area several times. The initial release occurred in September 2008 when sixty-four (64) barrels of crude oil products were released over an unknown area. A Form C-141 was submitted to the NMOCD on September 19, 2008.

The second release occurred in October 2008 when four hundred twenty-two (422) barrels of crude oil products were released covering a surface area of ±22,400 square feet of dry pasture land with no livestock present. In addition to pasture land, the release covered ±4,900 square feet of caliche pad and road. A Form C-141 was submitted to the NMOCD on October 25, 2008 and approved on October 29, 2008. However, other than surficial cleanup, no remedial activities were undertaken.

Site Background

The site is located in UL-D (NW1/4 of the NW1/4) of Section 28, T17S, R32E at an approximate elevation of 3,985-feet above mean sea level (amsl). The property is owned by the Department of the Interior and managed by the Bureau of Land Management (BLM). A search for water wells was completed utilizing the *New Mexico Office of the State Engineers* website and a database maintained by the United States Geological Survey (USGS). One monitor well (MW-8) exists approximately 570-feet northeast of the Release Area (Ref. MW-8 Exploratory Boring Log). A playa exist ±0.5-miles southwest of the Release Area. Groundwater data indicates the average

water depth is approximately 77-feet below ground surface (bgs). Based on available information, vertical distance between impacted soil and groundwater is approximately 55-feet. Utilizing this information, NMOCD Remedial Threshold Goals (NMOCD Goals) were determined as follows:

Parameter	Remedial Goal
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	1,000 mg/Kg
Chlorides	250 mg/Kg

Field Work

On October 14, 2008 four (4) backhoe sample trenches (BH-1 thru BH-4) were excavated in the release area to depths not exceeding fourteen (14) feet bgs. At that elevation TPH concentrations were 11,200 mg/Kg (Ref. *Table 3*).

On January 29, 2009 three (3) soil sample trenches (BH) were excavated and five (5) hand augered soil borings were advanced to various depths not exceeding eighteen (18) feet bgs. With the exception of BS-1, all BHs and hand auger soil borings were completed to depths where TPH concentrations were within NMOCD Goals. No field or laboratory analyses were conducted for chloride concentrations. However, as BS-1 and BH-1 were advanced in the same locale, it was concluded the area was an old pit used to dispose of tank bottom waste material not representative of general Release Area findings. (Ref. *Table 3*).

On November 23, 2010 two (2) soil borings and eight (8) hand auger soil borings were advanced to various depths not exceeding forty (40) feet bgs. With respect to TPH and chloride concentrations, SB-1 and SB-2 came into compliance with NMOCD Goals at thirty (30) feet and ten (10) feet bgs respectively. All hand auger soil borings came into compliance with NMOCD Goals for TPH concentrations at 4-feet bgs (Ref. *Table #3*)

EPI mobilized to the Release Area on February 24, 2012 and advanced thirteen (13) hand auger soil borings to various depths. Field locations of the hand auger soil borings were coincidental with soil sample locations on October 2008, January 2009 and November 2010 soil sample events. Intent of hand auger soil borings was advancement until NMOCD Goals were achieved or penetration refusal encountered. Results of field and laboratory analyses are noted on *Table #4*.

Analytical Data and Procedures

In reviewing Table 4, *Summary of Hand Auger Soil Sample Field Analyses and Laboratory Analytical Results*, chloride concentration elevated above NMOCD Goals exists only in HA-3 to a depth of 6-feet bgs. TPH concentrations elevated above NMOCD Goals exist primarily in HA-1 through HA-7 and HA-9 areas.

A portion of select soil samples will be field tested for organic vapors and chloride concentrations. Soil samples collected for field testing of organic vapors are placed in self sealing polyethylene bags and allowed to equilibrate to ~70° F. Soil samples tested for organic vapors utilizing a MiniRae™ Photoionization Detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations will be determined via use of a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses will be immediately inserted into laboratory provided containers, labeled, placed in coolers, iced down and transported to an independent laboratory for quantification of TPH [Gasoline Range Organics (C6-C12), Diesel Range Organics (>C12-C28) and Oil Range Organics (>C28-C35)] and chloride concentrations under Chain-of-Custody protocol.

Site Remedial Proposal

After issuance of a "One Call", EPI will construct a temporary caliche road on the release ephemeral flow path (Release Area) from soil sample points HA-1 through HA-7 as noted on *Figure #4*. (Note – HA-9 is located at the junction of the flow path and an existing caliche lease road). A hydro-excavator will excavate a trench along the edge of the temporary caliche road the entire distance from HA-1 to HA-7 to expose marked and potential unmarked pipelines. Once completed, a pipe locator will be connected to each metallic line tracing and marking it the entire width of the Release Area.

Excavation and backfilling the Release Area between sample points HA-1 and HA-7 will require extreme care to avoid damaging pipelines. Portions of the Release Area which lie within the caliche pad surrounding the open top tank will not be excavated due to potential foundation instability. Whenever the open top tank is placed out of service and removed, the entire caliche pad will be reclaimed. Release Area between HA-1 and HA-4 will be excavated to a depth where TPH concentrations achieve NMOCD Goals, but not to exceed a maximum depth of eight (8) feet bgs. Should the excavation bottom display TPH concentrations elevated above NMOCD Goals at this depth, a minimum two (2) feet thick compacted clay barrier will be installed. TPH concentrations in the Release Area between HA-4 and HA-7 indicate NMOCD Goals should be achieved at a maximum depth of four (4) to six (6) vertical feet. However, if TPH concentrations do not attain NMOCD Goals at this depth, the maximum eight (8) vertical feet proposed limit and compacted clay barrier should be implemented. All impacted material will be transported to a State approved land farm.

Upon completion of the above activities, excavation of the pit containing possible tank bottom residue will commence. Existing buried pipelines may hamper or limit excavation width and depth. In noting laboratory analytical data from SB-1 (*Table #3*), impacted material exists from ground surface to 20-30 feet bgs. Cognizant of the hazards in this locale, recommended maximum limits on depth of excavation terminate at eight (8) feet bgs with horizontal boundaries for TPH concentrations dictated by NMOCD Goals or obstacles detrimental to safety of employees. Upon completion, a minimum two (2) feet thick compacted clay barrier will be installed over the excavation bottom. Remainder of the excavation will be backfilled with sandy loam soil to original ground surface.

Release Area between sample points HA-7 and HA-8 shouldn't require any excavation. Similarly, the area surrounding soil sample point HA-9 should cleanup at a depth of four (4) to six (6) vertical feet in areas east of existing caliche road. Discolored "fingers" within the caliche road will be excavated approximately two (2) vertical feet and a width which removes impacted material. Clean caliche will be placed in the excavated area, watered and wheel rolled for compaction However, EPI is of the opinion major remediation of the north-south lease road is not warranted.

The Release Area surrounding HA-13 is a reclaimed production pit covered with an earthen cap. Due to the pit surface possibly being covered with a polyethylene liner, EPI recommends discing the entire area a maximum depth of two (2) to three (3) vertical feet and apply a six (6) percent solution of Micro-Blaze solution over the disturbed area. Seeding of the area will comply with conditions as described below.

Certain areas adjacent with the Release Area flow path contain asphaltine and soil discoloration. To induce vegetative growth, EPI recommends surficial cleanup of these areas a maximum depth of one (1) foot. Spray a six (6) percent solution of Micro-Blaze over the disturbed area and backfill the excavation with clean sandy loam. However, this procedure should apply only to those areas which are contiguous with the Release Area flow path. Discing and seeding of these areas will comply with conditions as described below.

Back fill material will be as directed by the BLM, i.e., preferably clean top soil or sandy loam from a nearby source. Whichever material is used will be free of deleterious material, large clumps or rocks. Once backfill operations are completed, disturbed area will be contoured to natural gradient, promote adequate surface drainage and protection from wind/water erosion. Entire disturbed areas will be disced if possible. Discing over disturbed areas which contain buried or surface pipelines may not be possible. Hence, a light tractor and harrow may be used. Following harrowing or discing activities, the areas will be deep seed drilled with a blend approved by the BLM. Dependent on buried or surface pipelines, certain areas may have seed ":hand sown". With near drought conditions, it is recommended seeding operations undertaken only when ground and weather conditions are conducive to vegetative growth

Following closure and acceptance of the area by BLM and NMOCD representatives, EPI will submit a *Final Closure Report* to BLM, NMOCD and ConocoPhillips personnel.

Should you have questions, concerns or need additional technical information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at dduncanepi@gmail.com.

Official communications should be directed to Mr. John W. Gates at (575) 391-3158 (office), (575) 390-4821 (cellular) or via e-mail at John.W.Gates@conocophillips.com with correspondence addressed to:

Mr. John W. Gates
ConocoPhillips Company
Lead HSE - Permian-Buckeye Operations
29 Vacuum Complex Lane
Lovington, New Mexico 88260-9664

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan
Civil Engineer
EPI Project Manager

Cc: John W. Gates, Lead HSE – ConocoPhillips Company
Ms. Trisha C. Bad Bear, Natural Resources Specialist – Bureau of Land Management
Justin Wright, Contract Person – ConocoPhillips Company
Cody Miller, General Manager – EPI
Roger Boone, Operations Manager – EPI

Encl: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Release Area Site Map
Figure 4 – Soil Sample Site Map (EPI and Tetra Tech)
Table 3 – Historical Summary of Exploratory Soil Sample Field Analyses and Laboratory Analytical Results (10-14-08, 1-29-09 and 10-23-10)
Table 4 – Summary of Hand Auger Soil Samples Field and Laboratory Analytical Results (2-24-12 and 2-27-12)
Attachment I – Site Photographs (N/I)
Attachment II – Laboratory Analytical Results and Chain-of-Custody Forms (2-24-12 and 2-27-12)
Attachment III – MW-8 Exploratory Boring Log
Attachment IV – Copy of Initial NMOCD Form C-141

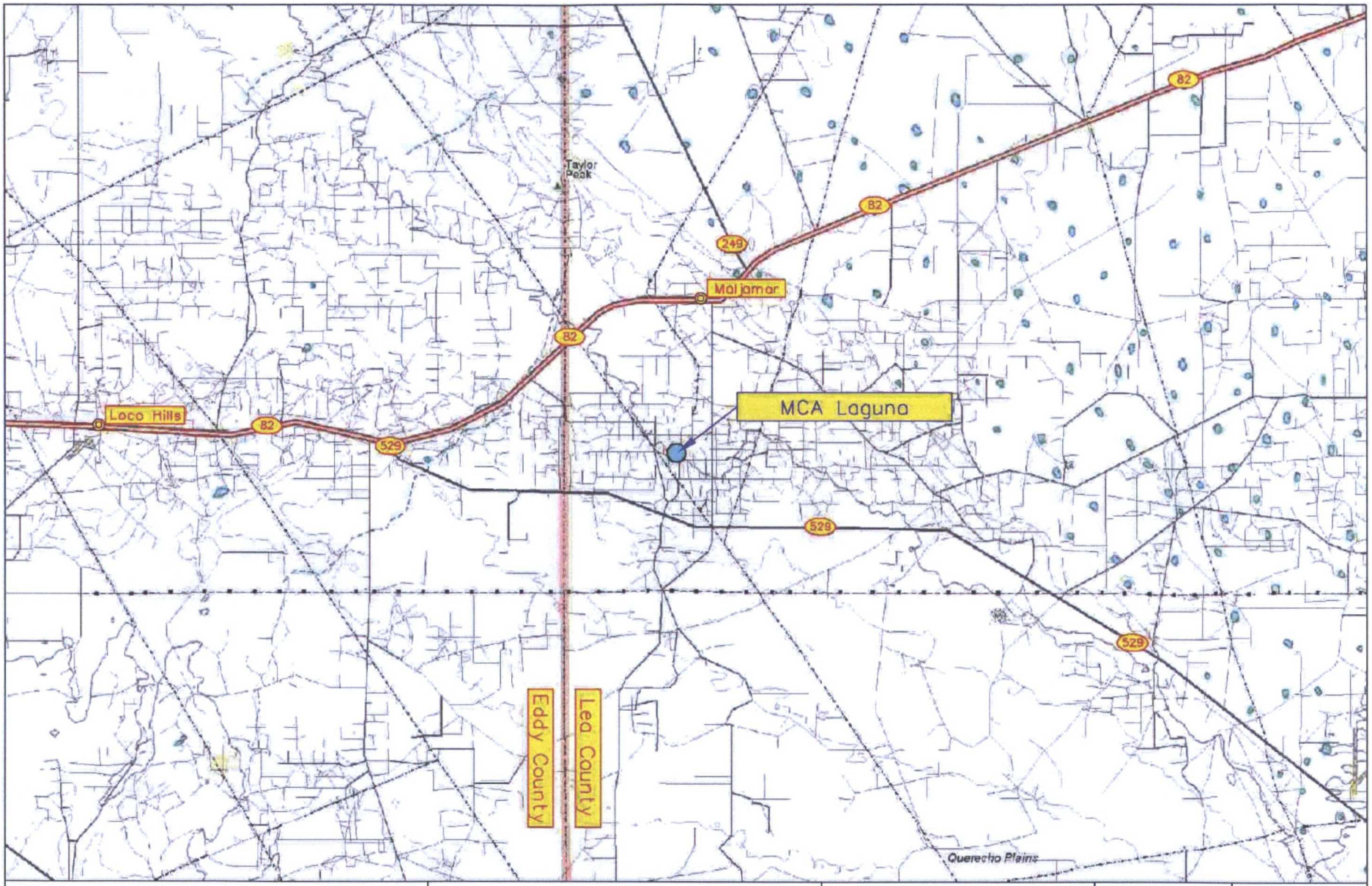


Figure 1 Area Map ConocoPhillips MCA Laguna	Lea County, New Mexico NE 1/4 of the NW 1/4, of Sec. 28, 17S, 32E N 32° 48' 39.51" W 103° 46' 29.52" Elevation: 3,991 feet amsl	DWG By: D Dominguez April 2012	REVISED:	N
		0 3 6 Miles	SHEET 1 of 1	

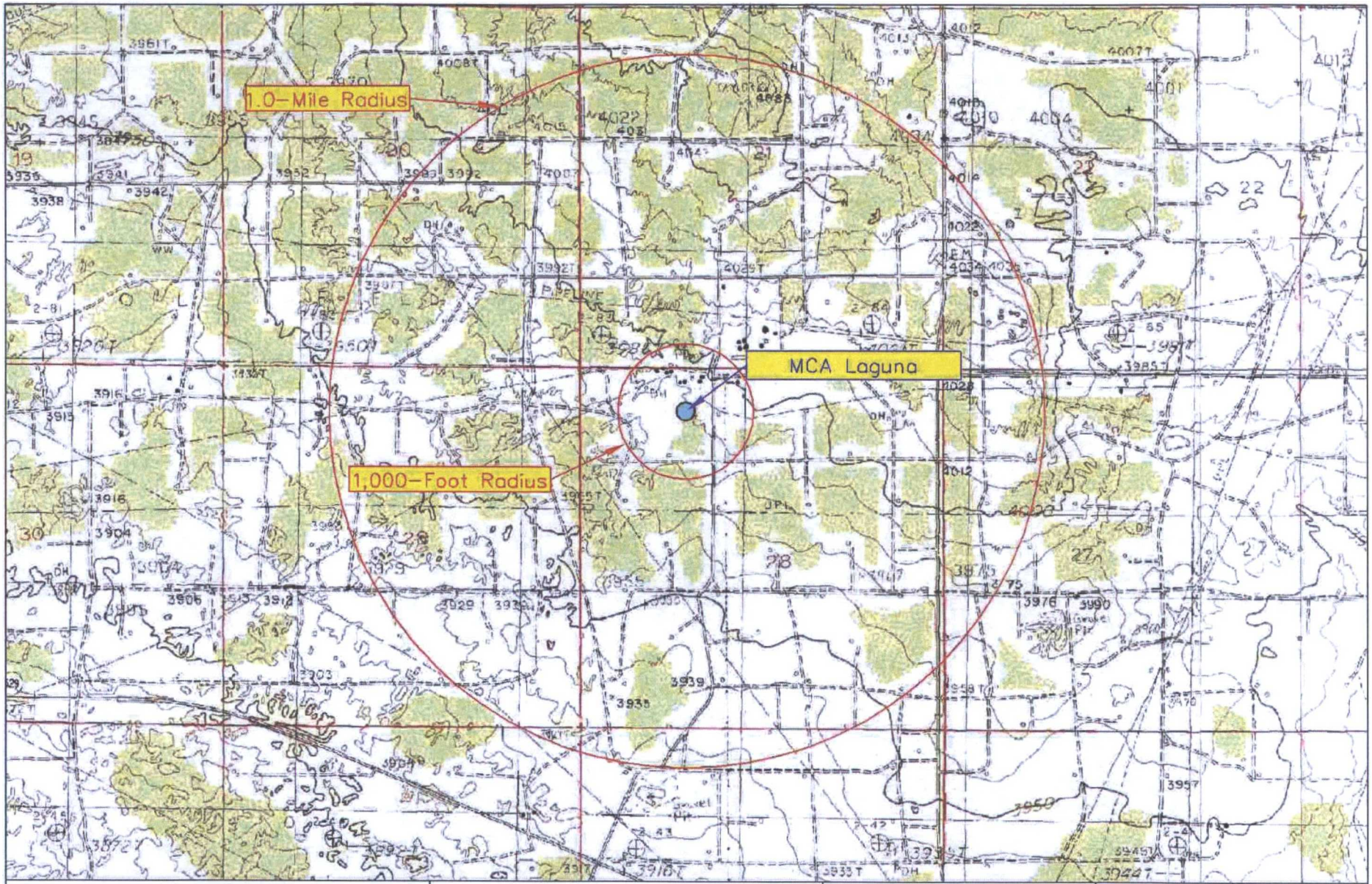


Figure 2
Site Location Map
ConocoPhillips
MCA Laguna

Lea County, New Mexico
NE 1/4 of the NW 1/4, of Sec. 28, 17S, 32E
N 32° 48' 39.51" W 103° 46' 29.52"
Elevation: 3,991 feet amsl

DWG By: D Dominguez
April 2012

REVISED:

0 2,000 4,000
Feet

SHEET
1 of 1

N

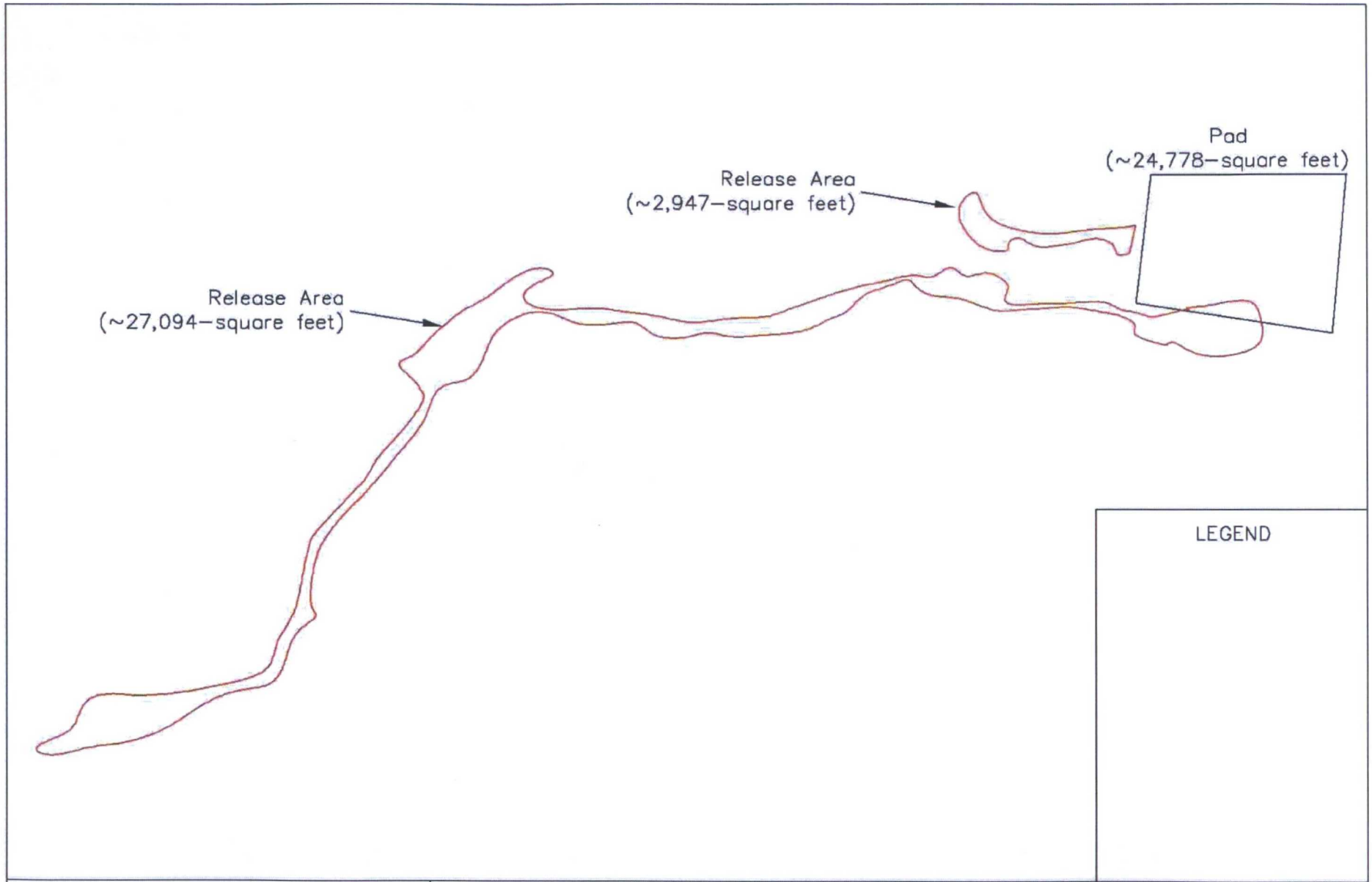


Figure 3
Site Map
ConocoPhillips
MCA Laguna

Lea County, New Mexico
NE 1/4 of the NW 1/4, Sec. 28, T17S, R32E
N 32° 48' 39.51" W 103° 46' 29.52"
Elevation: 3,991 feet amsl

DWG By: D Dominguez
March 2012

REVISED:

0 120 240
Feet

SHEET
1 of 1

N

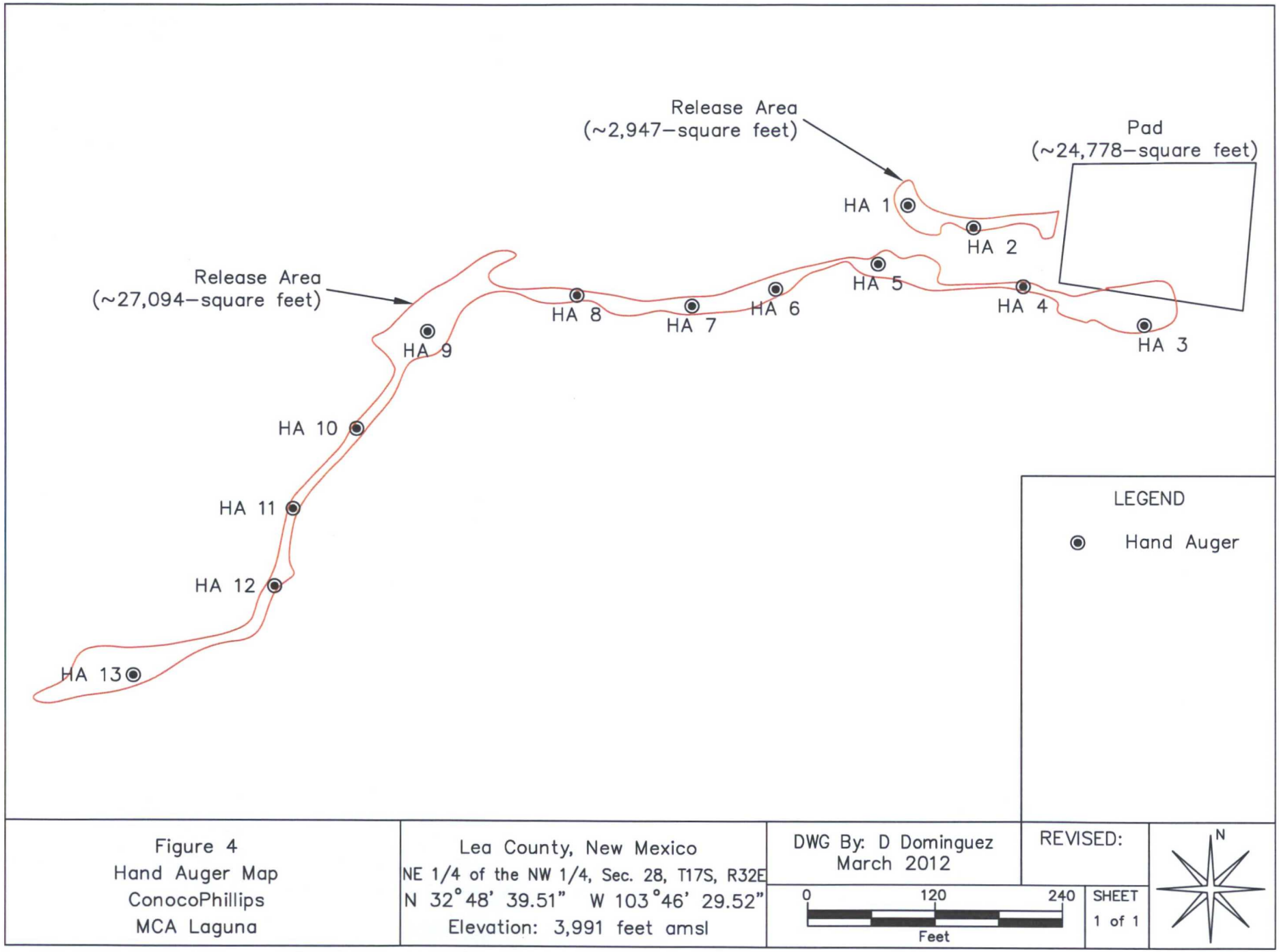


Figure 4 Hand Auger Map ConocoPhillips MCA Laguna	Lea County, New Mexico NE 1/4 of the NW 1/4, Sec. 28, T17S, R32E N 32° 48' 39.51" W 103° 46' 29.52" Elevation: 3,991 feet amsl	DWG By: D Dominguez March 2012 0 120 240 Feet	REVISED: SHEET 1 of 1	N

FIGURE 1	MCA LAGUNA SAMPLING LOCATONS
ConocoPhillips	TETRA TECH, INC.
Lea County, New Mexico Unit D, Sec 28, T17S, R32E	PROJECT NO. 115-6400696CO DRAWING BY: CWD DRAWING DATE: 12/20/2010 COPL PROJECT FILE

TABLE 3

Historical Summary of Exploratory Soil Sample Field and Laboratory Analytical Results

Conoco Phillips Corporation

Project: MCA Laguna Release Area (NMOCD Ref. #1RP 1991; EPI Ref. #150035)

UL-D (SW1/4 of the NW1/4) of Section 28, T17S, R32E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C10) (mg/Kg)	TPH >(C10-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
BH-1	0.5	In Situ	14-Oct-08	--	--	0.01	0.24	1.90	2.39	4.54	450	3,000	--	3,450	ND
BH-1	4	In Situ	14-Oct-08	--	--	0.10	0.13	4.10	5.19	9.52	190	4,300	--	4490	95.1
BH-1	14	In Situ	14-Oct-08	--	--	11.0	6.60	48.0	46.0	111.6	1600	9,600	--	11,200	195
BH-2	0.5	In Situ	14-Oct-08	--	--	0.01	0.02	0.26	0.69	0.98	40.0	4,400	--	4,440	ND
BH-2	2	In Situ	14-Oct-08	--	--	ND	ND	ND	ND	ND	ND	ND	--	ND	ND
BH-3	0.5	In Situ	14-Oct-08	--	--	ND	ND	ND	ND	ND	ND	270	--	270	ND
BH-3	4	In Situ	14-Oct-08	--	--	ND	ND	ND	ND	ND	ND	7.10	--	7.10	13.2
BH-4	0.5	In Situ	14-Oct-08	--	--	0.03	4.10	17.0	16.5	37.7	930	5,000	--	5,930	ND
BH-4	4	In Situ	14-Oct-08	--	--	ND	ND	0.01	ND	0.01	1.60	42.0	--	43.6	85.7
BS-1	18	In Situ	29-Jan-09	--	--	0.42	9.80	28.0	42.0	80.2	2,900	740	--	3,640	--
BS-3	6	In Situ	29-Jan-09	--	--	ND	ND	ND	ND	ND	ND	ND	--	ND	--
AH-4	0.5	In Situ	29-Jan-09	--	--	0.08	3.70	10.0	15.7	29.5	4,400	230	--	4,630	--
AH-4	6	In Situ	29-Jan-09	--	--	ND	ND	ND	ND	ND	31.0	ND	--	31.0	--
AH-5	0.5	In Situ	29-Jan-09	--	--	0.56	5.90	11.0	20.4	37.9	2,600	600	--	3,200	--
AH-5	6	In Situ	29-Jan-09	--	--	ND	ND	ND	ND	ND	290	0.60	--	291	--
AH-6	0.5	In Situ	29-Jan-09	--	--	0.04	0.20	0.90	7.70	8.84	3,900	260	--	4,160	--

TABLE 3

Historical Summary of Exploratory Soil Sample Field and Laboratory Analytical Results

Conoco Phillips Corporation

Project: MCA Laguna Release Area (NMOCD Ref. #1RP 1991; EPI Ref. #150035)

UL-D (SW1/4 of the NW1/4) of Section 28, T17S, R32E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C10) (mg/Kg)	TPH >(C10-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
AH-6	4	In Situ	29-Jan-09	--	--	ND	ND	0.002	0.003	0.005	130	0.80	--	131	--
AH-7	0.5	In Situ	29-Jan-09	--	--	0.01	0.44	1.40	3.30	5.15	4,000	14.0	--	4,014	--
AH-7	2	In Situ	29-Jan-09	--	--	ND	ND	0.004	0.030	0.034	360	4.80	--	365	--
AH-8	0.5	In Situ	29-Jan-09	--	--	ND	0.003	0.003	0.020	0.026	3,200	0.40	--	3,200	--
AH-8	2	In Situ	29-Jan-09	--	--	ND	ND	ND	ND	ND	14.0	ND	--	14.0	--
BS-9	3	In Situ	29-Jan-09	--	--	ND	ND	ND	ND	ND	ND	ND	--	ND	--
SB-1	0.5	In Situ	23-Nov-10	--	--	0.003	ND	ND	0.002	0.005	6,100	ND	--	6,100	337
SB-1	10	In Situ	23-Nov-10	--	--	0.029	0.008	0.052	0.475	0.564	4,800	7.50	--	4,808	195
SB-1	20	In Situ	23-Nov-10	--	--	0.012	0.007	0.027	0.035	0.081	3,400	3.20	--	3403	104
SB-1	30	In Situ	23-Nov-10	--	--	0.003	ND	0.011	0.012	0.026	970	0.6	--	971	69.0
SB-1	40	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	780	ND	--	780	55.0
SB-2	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	22,000	ND	--	22,000	11.0
SB-2	10	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	55.0	ND	--	55.0	218
SB-2	20	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	880	ND	--	880	84.6
SB-2	30	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	170	ND	--	170	246
SB-2	40	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	65.0	ND	--	65.0	310

TABLE 3

Historical Summary of Exploratory Soil Sample Field and Laboratory Analytical Results

Conoco Phillips Corporation

Project: MCA Laguna Release Area (NMOCD Ref. #1RP 1991; EPI Ref. #150035)

UL-D (SW1/4 of the NW1/4) of Section 28, T17S, R32E; Lea County, New Mexico

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C10) (mg/Kg)	TPH >(C10-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
HA-9	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	0.010	0.010	2,800	0.80	--	2,801	14.8
HA-9	2	In Situ	23-Nov-12	--	--	ND	ND	ND	0.03	0.03	2,000	0.70	--	2,001	8.1
HA-9	4	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	210	ND	--	210	10.1
HA-10	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	920	ND	--	920	1,600
HA-10	2	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	500	ND	--	500	939
HA-10	4	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	ND	ND	--	ND	134
HA-11	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	2,700	ND	--	2,700	1,400
HA-11	2	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	1,300	ND	--	1,300	1,840
HA-11	4	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	200	ND	--	200	2,370
HA-12	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	3,100	ND	--	3,100	10.7
HA-12	2	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	150	ND	--	150	37.0
HA-12	4	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	25.0	ND	--	25.0	83.7
HA-14	0.5	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	1,800	ND	--	1,800	12.4
HA-14	2	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	210	ND	--	210	10.0
HA-15	0.5	In Situ	23-Nov-12	--	--	ND	ND	ND	ND	ND	2,500	ND	--	2,500	6.50
HA-15	2	In Situ	23-Nov-10	--	--	ND	ND	ND	ND	ND	14.0	ND	--	14.0	9.20

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/24/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-3 (2') (H200521-05)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	02/28/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**360**	100	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*91.1 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*98.9 %*	*57.6-158*

Sample ID: HA-3 (4') (H200521-06)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	02/28/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**1140**	100	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*74.0 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*84.7 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/24/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-3 (6') (H200521-07)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	02/28/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**2590**	100	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*88.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*98.1 %*	*57.6-158*

Sample ID: HA-4 (2') (H200521-08)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/28/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**605**	50.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*66.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*108 %*	*57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/24/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-5 (2') (H200521-09)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**369**	50.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*64.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*102 %*	*57.6-158*

Sample ID: HA-5 (4') (H200521-10)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**29.0**	10.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*73.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*82.1 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/24/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-6 (2') (H200521-11)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**11.1**	10.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*77.5 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*88.6 %*	*57.6-158*

Sample ID: HA-7 (2') (H200521-12)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS** **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**4240**	100	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*85.6 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*260 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/24/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-7 (4') (H200521-13)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**207**	10.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*78.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*89.6 %*	*57.6-158*

Sample ID: HA-8 (2') (H200521-14)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	416	104	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**257**	50.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*70.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*76.5 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-8 (4') (H200521-15)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	195	97.3	200	14.9	
DRO >C10-C28	**17.5**	10.0	03/01/2012	ND	190	95.1	200	8.05	

Surrogate: 1-Chlorooctane	*83.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*92.0 %*	*57.6-158*

Sample ID: HA-9 (2') (H200521-16)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	03/01/2012	ND	202	101	200	9.46	
DRO >C10-C28	**4300**	100	03/01/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*88.3 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*106 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-9 (4') (H200521-17)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	202	101	200	9.46	
DRO >C10-C28	**152**	10.0	03/01/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*73.0 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*84.6 %*	*57.6-158*

Sample ID: HA-10 (2') (H200521-18)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2012	ND	202	101	200	9.46	
DRO >C10-C28	<10.0	10.0	03/01/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*83.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*90.8 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-10 (4') (H200521-19)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	<10.0	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*82.3 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*92.5 %*	*57.6-158*

Sample ID: HA-11 (2') (H200521-20)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**72.3**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*83.7 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*90.6 %*	*57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-11 (4') (H200521-21)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**22.9**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*81.1 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*91.1 %*	*57.6-158*

Sample ID: HA-12 (2') (H200521-22)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**31.5**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*82.3 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*89.0 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-12 (4') (H200521-23)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**15.5**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*81.4 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*88.0 %*	*57.6-158*

Sample ID: HA-12 (6') (H200521-24)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**35.2**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*74.2 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*81.5 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Environmental Plus, Inc.
David P. Duncan
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received:	02/28/2012	Sampling Date:	02/27/2012
Reported:	03/05/2012	Sampling Type:	Soil
Project Name:	MCA LAGUNA RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	CONOCO PHILLIPS 150035	Sample Received By:	Celey D. Keene
Project Location:	UL-D, SEC 28, T17S, R32E		

Sample ID: HA-13 (2') (H200521-25)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**57.3**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*82.3 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*97.1 %*	*57.6-158*

Sample ID: HA-13 (4') (H200521-26)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	02/29/2012	ND	432	108	400	3.64	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/02/2012	ND	202	101	200	9.46	
DRO >C10-C28	**11.1**	10.0	03/02/2012	ND	201	101	200	9.80	

Surrogate: 1-Chlorooctane	*75.9 %*	*55.5-154*
Surrogate: 1-Chlorooctadecane	*84.0 %*	*57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

P.O. Box 1558, 2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain-of-Custody Form

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	ConocoPhillips
Facility Name	MCA Laguna Release Area
Location	UL-D, Sec. 28, T17S, R32E
Project Reference	150035
EPI Sampler Name	Kirt Tyree

Remit Invoice To:

ConocoPhillips

ATTN: Mr. Justin Wright
COPC - Contractor
ConocoPhillips Company
29 Vacuum Complex Lane
Lovington, New Mexico 88260-9664

LAB I.D. H200521-	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH
01 1	HA-1 (2')	G	1			X					X		24-Feb-12	8:50		X	X					
02 2	HA-1 (4')	G	1			X					X		24-Feb-12	9:20		X	X					
03 3	HA-1 (6')	G	1			X					X		24-Feb-12	9:45		X	X					
04 4	HA-2 (2')	G	1			X					X		24-Feb-12	8:51		X	X					
05 5	HA-3 (2')	G	1			X					X		24-Feb-12	10:00		X	X					
06 6	HA-3 (4')	G	1			X					X		24-Feb-12	10:05		X	X					
07 7	HA-3 (6')	G	1			X					X		24-Feb-12	10:30		X	X					
08 8	HA-4 (2')	G	1			X					X		24-Feb-12	10:53		X	X					
09 9	HA-5 (2')	G	1			X					X		24-Feb-12	11:27		X	X					
10 10	HA-5 (4')	G	1			X					X		24-Feb-12	11:32		X	X					

Sampler Relinquished: Kirt Tyree	02/24/12 Time 15:45	Received By:	E-mail results to: dduncanepi@gmail.com & Justin.Wright@contractor.conocophillips.com
Relinquished by:	02/28/12 Time 11:29	Received By: (lab staff)	
Delivered by: 5°C	Sample Cool & Intact: (Yes) No	Checked By:	

#26

Environmental Plus, Inc.

P.O. Box 1558, 2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain-of-Custody Form

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	ConocoPhillips
Facility Name	MCA Laguna Release Area
Location	UL-D, Sec. 28, T17S, R32E
Project Reference	150035
EPI Sampler Name	Kirt Tyree

Remit Invoice To:

ConocoPhillips

ATTN: Mr. Justin Wright
COPC - Contractor
ConocoPhillips Company
29 Vacuum Complex Lane
Lovington, New Mexico 88260-9664

LAB I.D. H200521-	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH			
11	HA-6 (2')	G	1			X					X		24-Feb-12	13:10		X	X								
12	HA-7 (2')	G	1			X					X		24-Feb-12	13:50		X	X								
13	HA-7 (4')	G	1			X					X		24-Feb-12	13:54		X	X								
14	HA-8 (2')	G	1			X					X		27-Feb-12	7:52		X	X								
15	HA-8 (4')	G	1			X					X		27-Feb-12	7:56		X	X								
16	HA-9 (2')	G	1			X					X		27-Feb-12	8:12		X	X								
17	HA-9 (4')	G	1			X					X		27-Feb-12	8:14		X	X								
18	HA-10 (2')	G	1			X					X		27-Feb-12	8:42		X	X								
19	HA-10 (4')	G	1			X					X		27-Feb-12	8:45		X	X								
20	HA-11 (2')	G	1			X					X		27-Feb-12	9:20		X	X								

Sampler Relinquished: Kirt Tyree	2/24/2012 & 2/27/12	Received By: D.P. Duncan	E-mail results to: dduncanepi@gmail.com & Justin.Wright@contractor.conocophillips.com
Relinquished by: D.P. Duncan	Time 09:30 / 02/28/12	Received By: (lab staff) Celine Thorne	
Delivered by: 5°C	Time 11:29	Checked By: CSK	
	Sample Cool & Intact: (Yes) No		

#26

Environmental Plus, Inc.

P.O. Box 1558, 2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

Chain-of-Custody Form

LAB: Cardinal

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	575-394-3481 / 575-394-2601
Client Company	ConocoPhillips
Facility Name	MCA Laguna Release Area
Location	UL-D, Sec. 28, T17S, R32E
Project Reference	150035
EPI Sampler Name	Kirt Tyree

Remit Invoice To:

ConocoPhillips

ATTN: Mr. Justin Wright
COPC - Contractor
ConocoPhillips Company
29 Vacuum Complex Lane
Lovington, New Mexico 88260-9664

LAB I.D. #200521-	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH
21	HA-11 (4')	G	1			X					X		27-Feb-12	9:23		X	X					
22	HA-12 (2')	G	1			X					X		27-Feb-12	9:51		X	X					
23	HA12 (4')	G	1			X					X		27-Feb-12	9:55		X	X					
24	HA-12 (6')	G	1			X					X		27-Feb-12	10:15		X	X					
25	HA-13 (2')	G	1			X					X		27-Feb-12	11:31		X	X					
26	HA-13 (4')	G	1			X					X		27-Feb-12	11:33		X	X					
27																						
28																						
29																						
30																						

Sampler Relinquished: Kirt Tyree	02/27/12 Time 14:40	Received By: D.P. Duncan	E-mail results to: dduncanepi@gmail.com & Justin.Wright@contractor.conocophillips.com
Relinquished by: D.P. Duncan	02/28/12 Time 11:29	Received By: (lab staff) Cathy Greene	
Delivered by: 5°C	Sample Cool & Intact: (Yes) No	Checked By: CSH	

#26

ATTACHMENT III

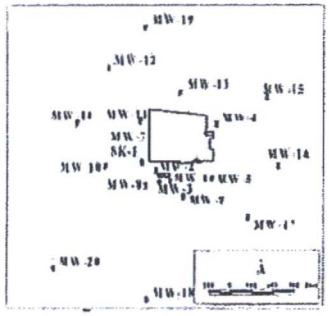
MW-8 Exploratory Boring Log

PROJECT NAME: Maxim #2690032
LOCATION: Maljamar Gas Plant, Lea County

MONITORING WELL NO: MW-8
FIELD LOGGED BY: F. Lichnovsky
ELEVATION: GROUND SURFACE (msl): 4001.22 (ft)
GROUNDWATER ELEVATION (msl): 3924.0 (ft)
DRILL TYPE: Truck Mounted Air Rotary

BORE HOLE DIAMETER: 5 (in)
DRILLED BY: Scarborough Drilling
DATE/TIME: HOLE STARTED: 5/23/01
DATE/TIME: COMPLETED: 5/23/01
REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
msl=mean sea level
FOG-First occurrence of groundwater
SWL-Static Water Level

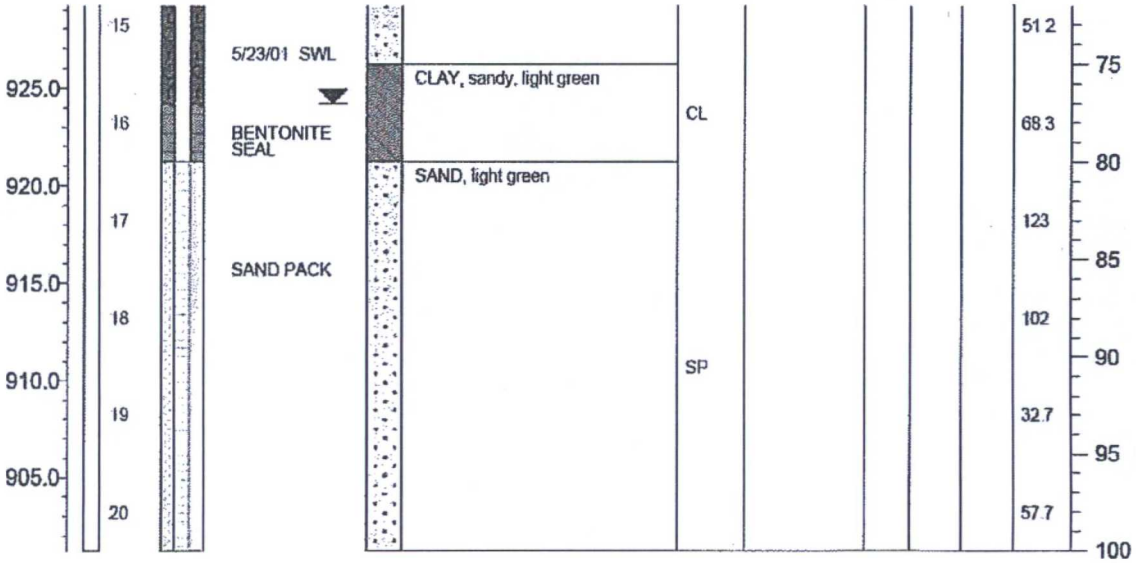
LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing
Measuring Point Elevation (msl): 4000.72
Static Water Level (feet below Top of Casing): 77
Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Cap

Type of Casing: PVC
Casing Diameter: 2 in.
Slot Size: 0.010 in



Boring Terminated at 100' bgs

Bulk Sampling

2690032	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	MW-8