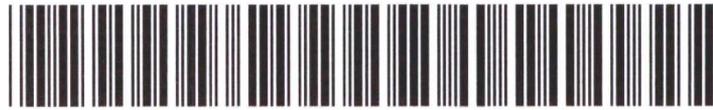




AE Order Number Banner

Report Description

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



App Number: pEEM0112360697

NM2 - 1

XTO ENERGY, INC.

3/7/2018

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 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: XTO Energy, Inc.	Contact: James McDaniel
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3701
Facility Name: Central Evaporation Pond #2 (Permit NM-02-0001)	Facility Type: Evaporation Pond
Surface Owner: Federal	Mineral Owner:
	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	26	32N	9W					San Juan

Latitude: 36.956656 Longitude: -107.752204

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Evaporation Pond	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: NA
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES. To Whom?	OIL CONS. DIV DIST. 3
By Whom?	Date and Hour:	MAR 11 2013
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES. Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

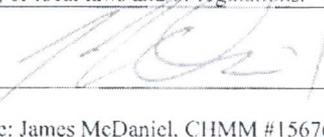
On May 23, 2011, L1 Environmental collected closure samples beneath the liner of Central Evaporation Pond #2 as outlined in the attached *Soil Sampling Results Report*. The samples were analyzed for each of the constituents outlined in the closure procedures for a centralized waste facility. Chloride results for samples collected in sections G,H,I and J returned results above the 250 mg/kg Spill Confirmation results outlined in the attached *Approved Closure Plan*. This confirmed that a release had occurred at this location. The chlorides found in sections G,H,I and J was the results of overspray, and not a result of a leak in the pond liner. Chlorides collected from sections A, B C and D, which were beneath the pond liner, returned results below the 250 mg/kg standard for the determination of a release. The site was ranked a 30 according to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases due to a drainage at less than 1,000 feet from the location and a depth to groundwater of approximately 40 feet. This set the closure standard to 100 ppm TPH, 10 ppm benzene and 50 ppm total BTEX.

Describe Area Affected and Cleanup Action Taken.*

The analytical results are attached in the *Soil Sampling Results Report*. All results are below the regulatory standards outlined in the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The NMOCD Guidelines for the Remediation of Leaks, Spills and Releases does not cite a closure standard for chlorides, and based on a depth to groundwater of over 40 feet at this location, a dense, tight shale layer beginning at approximately 12 feet below ground surface, the chloride levels present will not pose a threat to human health and the environment. The dense shale layer was encountered at approximately 12 feet below ground surface during the construction of Evaporation Pond #2, and chloride levels in this shale layer at the bottom of the pond were below the 250 mg/kg standards for the determination of a release.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor: 
Printed Name: James McDaniel, CHMM #15676	Approval Date: 3/20/13
Title: EHS Supervisor	Expiration Date:
E-mail Address: James_McDaniel@xtoenergy.com	Conditions of Approval:
Date: 3/11/2013	Phone: 505-333-3701
	Attached <input type="checkbox"/>



nJK1.307953215

SITE NAME:

**CENTRALIZED EVAPORATION POND #2
SECTION 26, TOWNSHIP 32N, RANGE 9W
SAN JUAN COUNTY, NEW MEXICO
OCD PERMIT NO. NM-02-0001**

SUBMITTED TO:

**MR. BRAD JONES
NEW MEXICO OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DRIVE
SANTA FE, NEW MEXICO 87505
(505) 476-3487**

SUBMITTED BY:

**XTO ENERGY, INC.
SAN JUAN DIVISION
382 ROAD 3100
AZTEC, NEW MEXICO 87410
(505) 333-3100**

MARCH 11, 2013

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Attachment #2 Reclamation Plan
Attachment #3 Photo Documentation
Attachment #4 LT Environmental Sampling Report

INTRODUCTION

The Centralized Evaporation Pond #2 (Pond #2) was originally permitted by the New Mexico Oil Conservation Division (OCD) for Koch Exploration in July of 1998, OCD Permit No. NM-02-0001. The pond lease and permit was acquired by XTO Energy, Inc. (XTO) in 2009 from El Paso Exploration and Production Company, and approval to transfer the permit was issued in March of 2009. The evaporation pond was used to dispose of produced water from the Blancett Com C #1, Gardner C #1, Gardner C #5 and Gardner C #7 well sites by previous operators. These wells are now owned and operated by XTO, however Pond #2 has not been used by XTO. XTO notified OCD in April 2009 of plans for removing fluids from the pond in order to clean and inspect the liner as part of our routine operations and maintenance program. During inspection and maintenance, obsolete, damaged and non-operational equipment was removed from the location. Based on completion of this process XTO decided to close Pond #2. A closure plan for this evaporation pond was submitted to your office and approved on December 13, 2010.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure report is to provide details of the closure activities performed by XTO for Evaporation Pond #2 located in Section 26, Township 32N, Range 9W.

- 1) *XTO notified the division's environmental bureau on April 28, 2009 of the cessation of operations at Pond #2 as part of our plans for evaporating the fluid in the pond in order to clean and inspect the liner. This closure plan and proposed schedule has been submitted to the division for adequacy in accordance with Paragraph 1 of Subsection A of NMAC 19.15.36.18.*

This closure plan was approved by the OCD on December 13, 2010.

- 2) *XTO is requesting an exception to Paragraph 2 of Subsection A of NMAC 19.15.36.18, the division's 60 days for notification of modifications of the closure plan and proposed schedule, based on the time of year and expected weather impediments. Winter precipitation, snow melt and Federal area closures will hinder closure operations.*

Closure activities occurred at this site from April 4, 2011 through September 17, 2012.

- 3) *However, if the division does not notify XTO of additional closure requirements within 60 days as provided, the operator may proceed with closure in accordance with the approved closure plan; provided that the director, for good cause, extend the time for the division's response for an additional period not to exceed 60 days by written notice to XTO in accordance with Paragraph 3 of Subsection A of NMAC 19.15.36.18.*

XTO is in receipt of the additional closure requirements outlined in the December 13, 2010 letter from the NMOCD. This letter is enclosed as Attachment #1.

- 4) *XTO shall be entitled to a hearing concerning a modification or additional requirement the division seeks to impose if it files an application for a hearing within 10 days after receipt of written notice of the proposed modifications or additional requirements in accordance with Paragraph 4 of Subsection A of NMAC 19.15.36.18.*

A hearing was not requested by XTO Energy, Inc.

- 5) *Closure shall proceed in accordance with the approved closure plan and schedule and modifications or additional requirements the division imposes. During closure operations XTO shall maintain the surface waste management facility to protect fresh water, public health, safety and the environment in accordance with Paragraph 5 of Subsection A of NMAC 19.15.36.18.*

Closure activities were performed in accordance with the approved closure plan.

- 6) *Upon completion of closure, XTO shall re-vegetate the site in accordance with the included Reclamation Plan. The surface owner of this site is the Bureau of Land Management (BLM) and the included Reclamation Plan conforms to BLM requirements and is in accordance with Paragraph 6 of Subsection A of NMAC 19.15.36.18.*

XTO has reclaimed the pond area accordance with the BLM standards, and as outlined in the attached *Reclamation Plan*.

- 7) *All water and sediment in the pond has been removed and disposed of at an OCD permitted disposal facility in order to inspect the liner as per our agreement with OCD dated April 2009 and in accordance with Paragraph 1 Subsection E of NMAC 19.15.36.18.*

All water in Evaporation Pond #2 was removed and disposed of at Agua Moss' OCD permitted injection facility, OCD permit number NMOCD-07-162. Approximately 615 yards of sediments were disposed of at CRI's OCD permitted landfill, OCD permit number NM-01-006

- 8) *All liners and bedding material will be inspected for re-use in other Oil and Gas operations (with OCD approval). Portions of the liner and bedding material that are deemed unusable will be properly cleaned and disposed of per 19.15.9.712 NMAC at the Bondad Landfill, located in La Plata County, Colorado (due to location) or the San Juan County Landfill, located in San Juan County, New Mexico. Concrete used to make up the leak detection system footer will be broken up and screened for Naturally Occurring Radioactive Material before being hauled to the Bondad Landfill for disposal.*

All liner and bedding material was removed and disposed of at the Bondad Landfill. Upon removal of the sump area, it was discovered that there was no concrete in the leak detection area. The leak detection was made up of an 8" PVC connected to the 1" leak detection piping running beneath the pond liner. Please see the photographs presented in *Attachment #3*.

- 9) *The soil beneath the evaporation pond liner, pond sidewalls, liquids receiving and treatment area, leak detection area, and area outside the berm will be sampled, by a third*

party contractor, into 4-ounce glass jars, capped headspace free, and analyzed for BTEX via USEPA Method 8021B, and for total petroleum hydrocarbons (TPH) via USEPA Method 418.1, total chlorides, and 3103 Subsection A and Subsection B constituents in accordance with NMAC 20.6.2.3103AB. Samples will also be collected from the natural background (for comparative purposes), to be analyzed for metals, and other inorganics listed in Subsections A and B of NMAC 20.6.2.3103. Standard metals will be analyzed via USEPA Method 6010B, Mercury will be analyzed via USEPA Method 7470 and cyanide will be analyzed via USEPA Method 9012B. Fluoride, Nitrate, Sulfate and Chlorides will be analyzed via USEPA Method 9056. Polychlorinated Biphenyls (PCB) will be analyzed via USEPA Method 8082, Volatile Organic Compounds (VOCs) will be analyzed via USEPA Method 8260B, Poly Aromatic Hydrocarbons (PAH) will be analyzed via USEPA Method 8310, Ethylene Dibromide (EDB) will be analyzed via USEPA Method 8011, Phenols will be analyzed via USEPA Method 9066, Total Dissolved Solids (TDS) will be analyzed via USEPA Method 2540C, Uranium will be analyzed via USEPA Method 200.8, and Radium 226/228 will be analyzed via USEPA Method 7500.

Individual grab samples will be obtained from any areas (beneath the evaporation pond liner, pond sidewalls, liquids receiving and treatment area, leak detection area, and area outside the berm) with visually obvious staining or moist soil. If the liner is obviously damaged, or there is any indication of a release, a subsurface investigation will be conducted.

Please see attached closure sampling report from LT Environmental (LTE) as Attachment #4. The metals results presented in Attachment #4 were analyzed using the RCRA 8 metals procedure for total metals. As a typical rule of thumb, TCLP metals are typically 1/20th of the metals found during total metals analysis.

10) Samples will be collected in accordance with the USEPA SW-846 protocols. Four (4) soil samples will be collected from beneath the pond and along the pond sidewalls, one in each quadrant of a grid pattern. Each sample will be a 10 point composite as shown on Figure 3. Each grid will measure approximately 160' x 160'. The evaporation pond is approximately 315' x 315'. One additional composite sample will be collected beneath the concrete footer of the leak detection system as well. One background sample of virgin, undisturbed soil will be analyzed for comparative purposes. The sample results will be submitted to the OCD Santa Fe office in accordance with Paragraphs 4-5 of Subsection E of NMAC 19.15.36.18.

A sample grid map is included in the LTE Sampling Report, Attachment #4, as Figure #2.

11) Considerations: This site has an OCD Hazard Ranking of 30 based on depth to groundwater of less than 50 feet, distance to a water well of over 1,000 feet, and horizontal distance to surface water of over 200 feet; see **Figure 1, Vicinity Map**. Sample results above 100 mg/kg TPH, 10 mg/kg benzene and 50 mg/kg BTEX standards will be excavated and a new sample collected as per OCD Guidelines for the

Remediation of Leaks, Spills and Releases. Should all closure samples return results below the closure standards determined for this site, no excavation will be required. Soil samples will be collected and analyzed for a chloride standard of 250 mg/kg or background to determine if a release has occurred.

Each of the Pond closure samples were found in the laboratory to be below the closure standards outlined in the OCD Guidelines for the Remediation of Leaks, Spills and Releases.

- 12) *Once laboratory analysis indicates closure standards have been achieved for the site, the evaporation pond will be backfilled using non-waste containing soil, and re-contoured and re-vegetated pursuant to the attached **Grading Plan** and **Reclamation Plan**. These plans conform to NMAC 19.15.36.18 and BLM requirements.*

The facility has been reclaimed pursuant to the attached Grading plan and Reclamation Plan. The reclamation plan includes soil amendments approved by the BLM to facilitate growth at this location. The site has been seeded with a seed mixture containing a minimum of three (3) native plant species, including at least one (1) native grass, not including noxious weeds. The seed mixture analysis and the invoice for seeding from Ridgeline Seeding and Reclamation, Inc. have been attached for your reference.

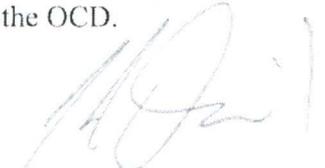
- 13) *The post-closure care period for the evaporation pond closure shall be three years if XTO has achieved clean closure. During that period XTO or another responsible entity shall regularly inspect and maintain the required re-vegetation. If there has been a release to the vadose zone or to groundwater, then XTO shall comply with applicable requirements of 19.15.29 and 19.15.30 NMAC in accordance with Subsection F on NMAC 19.15.36.18.*

No release has been confirmed in the Vadose Zone

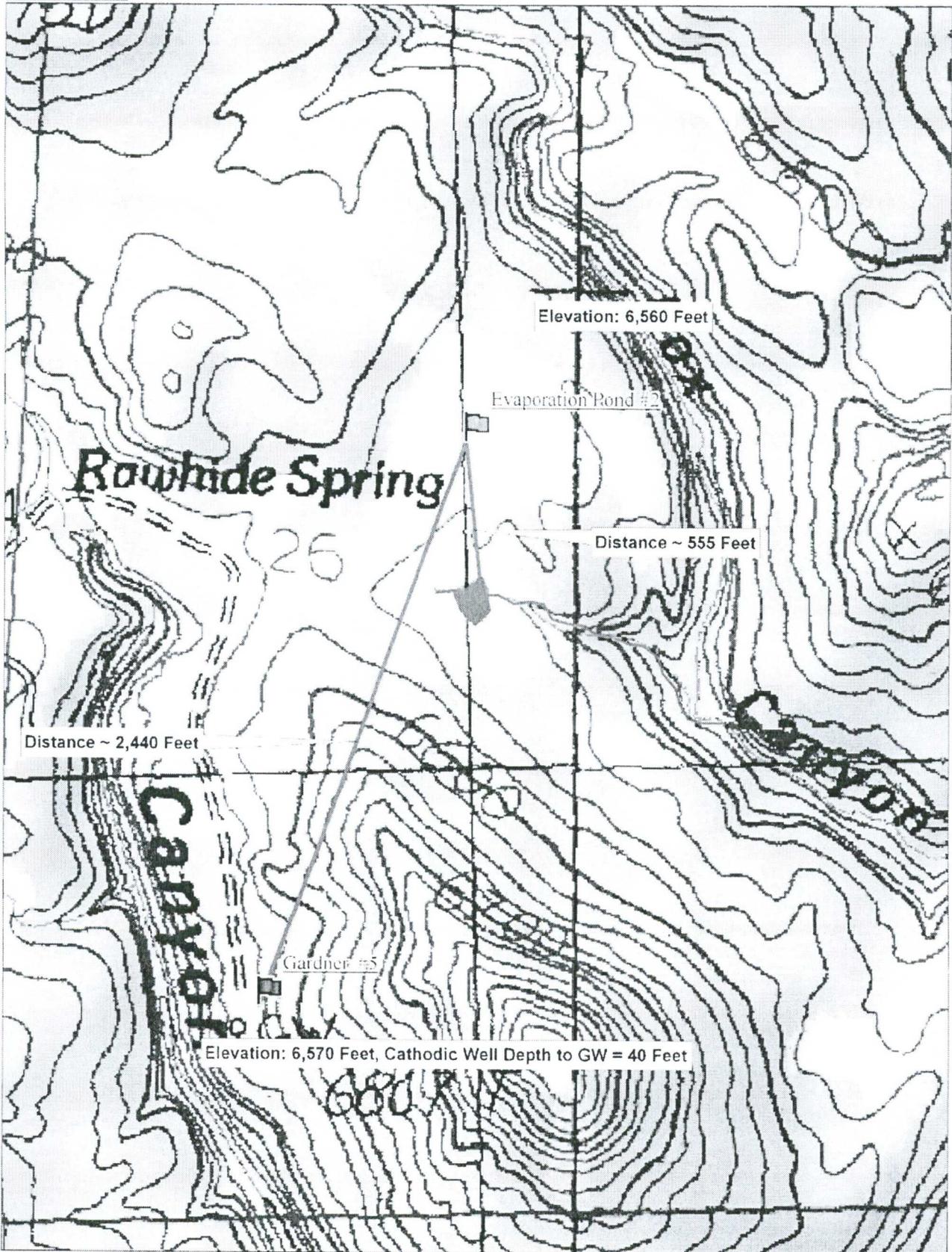
- 14) *Once all closure activities have been completed, a report detailing on-site activities and sampling results will be prepared and submitted to OCD environmental bureau in Santa Fe.*

This report is intended to be the above mentioned closure report.

XTO Energy, Inc. has completed closure activities at Evaporation Pond #2 located in Section 26, Township 32N, Range 9W, San Juan County, New Mexico. Pending approval of this closure plan, Evaporation Pond #2 will no longer be permitted as a Centralized Waste Facility regulated by the OCD.


James McDaniel, CHMM #15676
EH&S Supervisor

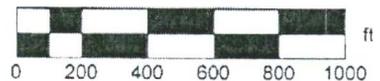




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www.delorme.com



Data Zoom 14-4

5217

30-045-24591

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator KOCH EXPLORATION COMPANY Location: Unit G Sec. 26 Twp 32 Rng 9

Name of Well/Wells or Pipeline Serviced GARDNER-5

Elevation 6570' Completion Date 11-8-85 Total Depth 397' Land Type* F-NM-013642

Casing, Sizes, Types & Depths NONE

If Casing is cemented, show amounts & types used NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used NONE

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. @-40'-CLEAR, ALKALI.

Depths gas encountered: NONE

Type & amount of coke breeze used: METALLURGICAL, 3500#

Depths anodes placed: 375'-365'-355'-345'-290'-250'-200'-120'-110'-75'

Depths vent pipes placed: 390'

Vent pipe perforations: FROM 75' DOWN

Remarks: OIL CON. DR' DIST. 1

RECEIVED
MAR 16 1990
OIL CON. DR'
DIST. 1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.



June 28, 2011

Mr. James McDaniel
XTO Energy
382 CR 3100
Aztec, NM 87410

**RE: Soil Investigation Results
XTO Energy, Inc.
Centralized Evaporation Pond #2 Permit NM-02-0008
San Juan County, New Mexico**

Dear Mr. McDaniel:

LT Environmental, Inc. (LTE) is pleased to provide XTO Energy, Inc. (XTO) with this letter summarizing the results of soil sampling activities at the Centralized Evaporation Pond #2, permit number NM-02-0008 (Site). The Site is located in the southeast $\frac{1}{4}$ of the northwest $\frac{1}{4}$ of Section 26 in Township 32 North, Range 9 West, San Juan County, New Mexico (Figure 1). LTE collected soil samples for closure of the evaporation pond, which was used by previous operators to dispose of produced water generated at nearby natural gas wells.

SOIL SAMPLING

XTO removed all water and sediment from the pond, the pond liner, and any other facility equipment prior to sampling. On May 16 and May 23, 2011, LTE collected ten composite soil samples and one background soil sample from locations specified in the January 13, 2011 closure plan submitted by XTO to the New Mexico Oil Conservation Division (NMOCD) and approved by the NMOCD on February 17, 2011. LTE conducted a visual investigation of the Site and did not observe any stained or moist soil from which to collect additional samples.

Composite soil sample locations are shown in Figure 2. Four ten-point composite samples were collected from beneath the former pond liner including the bottom and side walls of the pond (Samples A, B, C, and D). Five-point composite samples were collected beneath the former leak detection sump (Sample E), beneath the former liquids receiving and treatment area (Sample F), and from four areas outside of the former berm (Samples G, H, I, and J). A discrete background sample was collected from the ground surface outside of the facility perimeter in the estimated up-gradient direction (west). For each composite soil sample, LTE deposited the appropriate number of aliquots of soil into plastic bags, thoroughly mixed the contents and sampled into 4-ounce glass jars. The soil samples were stored on ice and shipped in a cooler to Environmental Science Corporation in Mt. Juliet, Tennessee, and Hall Environmental Analysis Laboratory in Albuquerque, New Mexico following strict chain of custody procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes by United States Environmental Protection Agency (USEPA) Method 8021B and total petroleum hydrocarbons by USEPA Method 418.1. Additionally, the following constituents listed in Subsections A and B of



20.6.2.3103 of the New Mexico Administrative Code were analyzed based on knowledge of process: arsenic, barium, cadmium, chromium, cyanide, fluoride, lead, total mercury, nitrate, selenium, silver, uranium, combined radioactivity, copper, iron, manganese, chloride, sulfate, total dissolved solids, zinc, and pH.

RESULTS

Table 1 lists the soil analytical results determined in the background sample and composite closure samples. The complete laboratory analytical report is attached as Appendix A.

LTE appreciates the opportunity to provide environmental services to XTO. If you have any questions regarding this report, please contact us at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Ashley L. Ager, M.S.
Senior Geologist/Office Manager

Brooke Herb
Staff Geologist

Attachments (4)

Figure 1 – Site Location Map

Figure 2 – Soil Sampling Location Map

Table 1 – Soil Analytical Results

Appendix A – Laboratory Analytical Reports

FIGURES



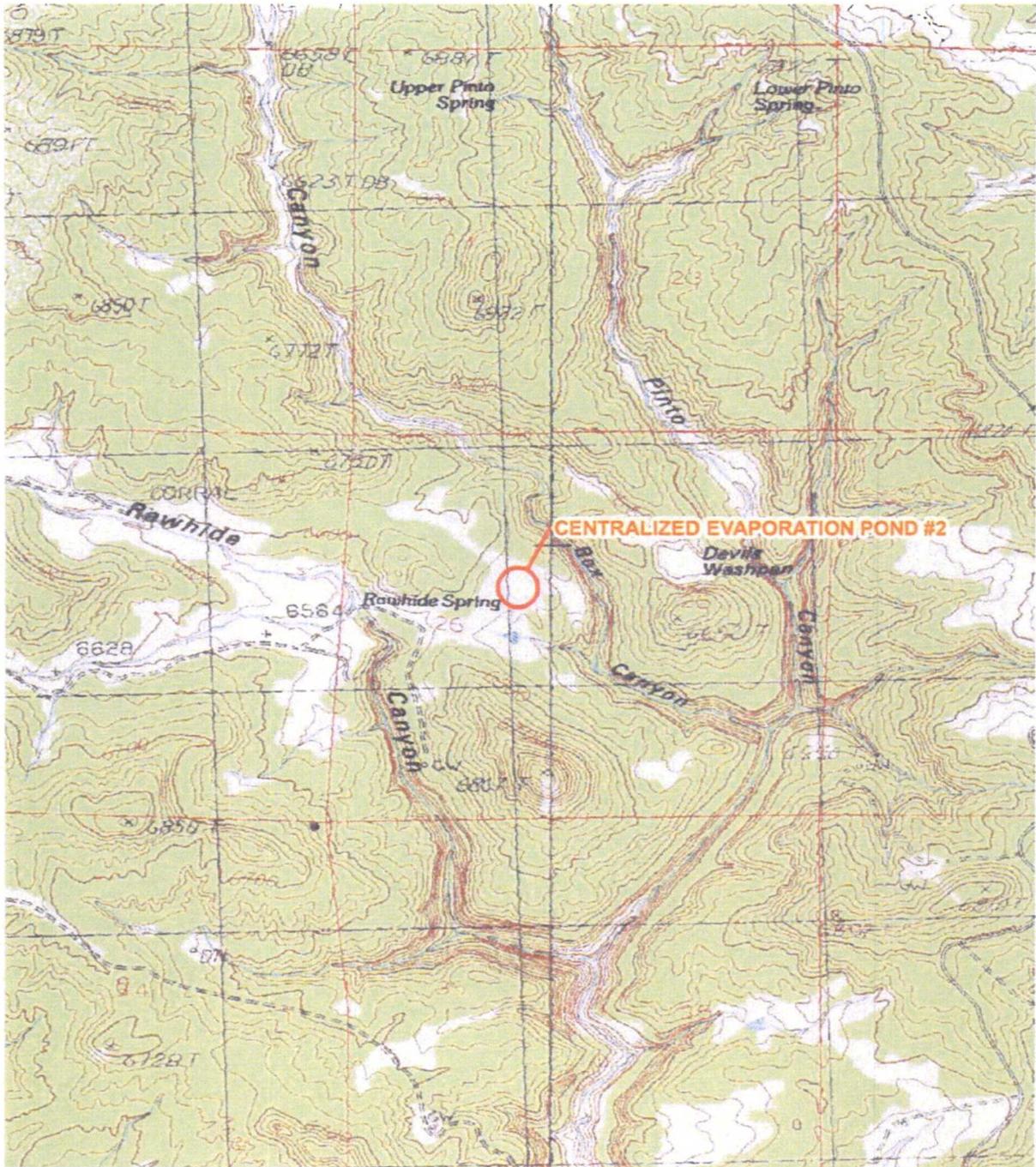


IMAGE COURTESY OF USGS/NRCS, VARIOUS DATES

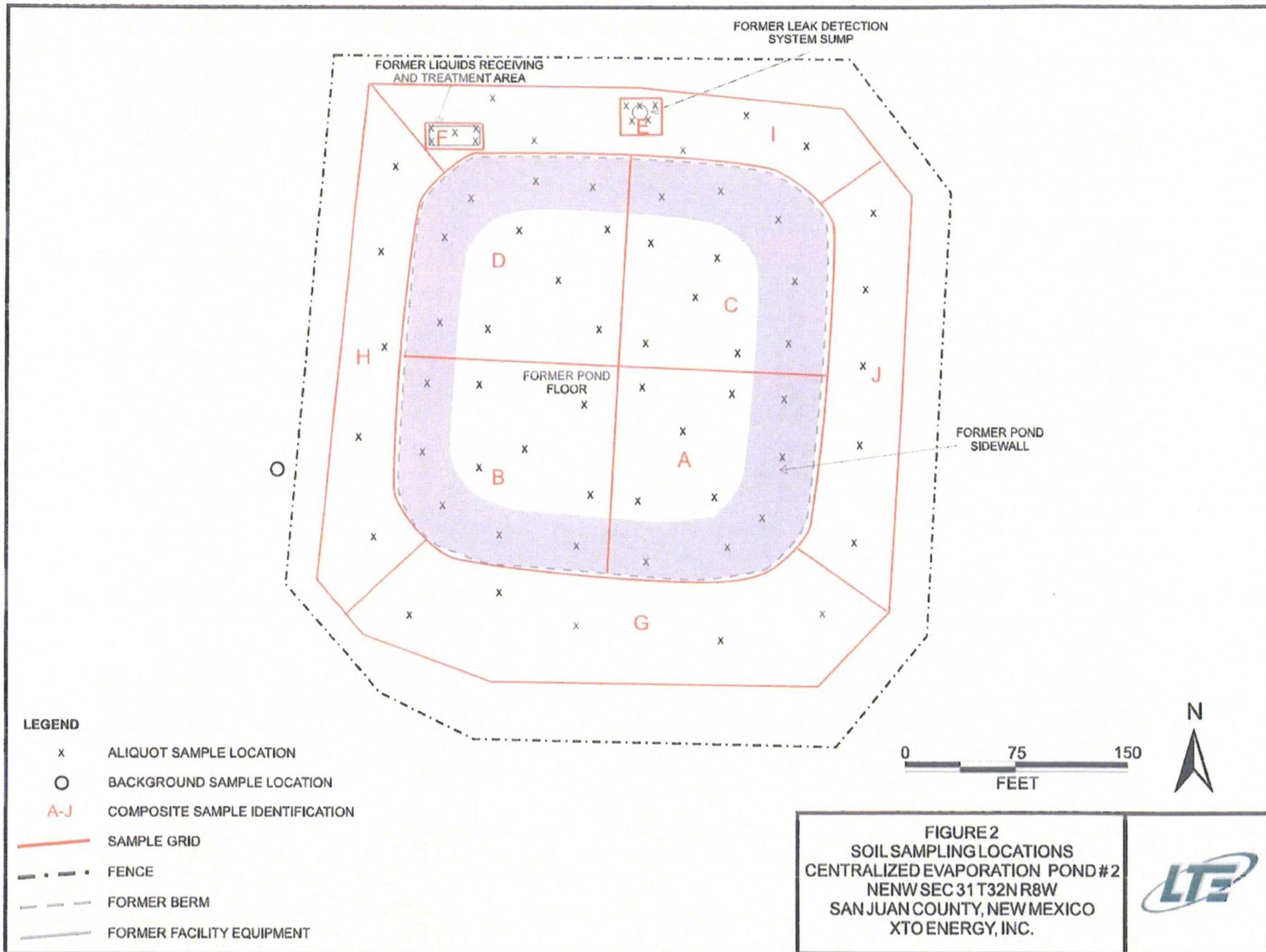
LEGEND

 SITE LOCATION



FIGURE 1
SITE LOCATION MAP
CENTRALIZED EVAPORATION POND #2
SE/W SEC 26 T32N R9W
SAN JUAN COUNTY, NEW MEXICO
XTO ENERGY, INC.





TABLE



TABLE 1
SOIL SAMPLE RESULTS
CENTRALIZED EVAPORATION POND #2
XTO ENERGY, INC.

Analyte	Sample ID Sample Date	Background	A	B	C	D	E	F	G	H	I	J
		5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/16/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011
	Units											
Benzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Toluene	mg/kg	<0.028	<0.028	<0.029	<0.028	<0.028	<0.029	<0.029	<0.029	<0.028	<0.029	<0.029
Ethylbenzene	mg/kg	<0.0028	<0.0028	<0.0029	<0.0028	<0.0028	<0.0029	<0.0029	<0.0029	<0.0028	<0.0029	<0.0029
Total Xylene	mg/kg	<0.0084	<0.0085	<0.0086	<0.0085	<0.0086	<0.0086	<0.0086	<0.0086	<0.0085	<0.0087	<0.0088
Total Petroleum Hydrocarbons	mg/kg	<20	<20	<20	<20	<20	<20	43	<20	<20	<20	<20
pH	S.U.	8.1	8.3	8.2	9.3	8.7	7.6	8.7	9.3	10.0	8.7	9.6
Total Dissolved Solids	%	89	88	87	88	88	87	87	87	88	87	86
Sulfate	mg/kg	<56	190	360	190	110	370	<57	560	400	490	500
Nitrate	mg/kg	6.4	<1.1	1.6	1.8	<1.1	2.9	5.6	7.7	3.7	11.0	7.9
Chloride	mg/kg	58	69	68	120	68	140	150	620	560	370	680
Uranium	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50	<25
Arsenic	mg/kg	2.1	1.9	1.6	<1.1	<1.1	2.4	3.3	1.4	<1.1	1.2	<1.2
Barium	mg/kg	780	160	640	220	220	200	250	300	1,000	270	470
Cadmium	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	0.48	<0.29	<0.29	<0.28	<0.29	<0.29
Chromium	mg/kg	9.7	10.0	11.0	10.0	11.0	12.0	13.0	13.0	11.0	10.0	12.0
Cyanide	mg/kg	<0.28	<0.28	<0.29	<0.28	<0.28	<0.29	<0.29	<0.29	<0.28	<0.29	<0.29
Fluoride	mg/kg	3.3	17.0	16.0	17.0	12.0	7.2	6.2	14.0	26.0	28.0	17.0
Lead	mg/kg	11.0	9.3	10.0	9.5	10.0	8.7	12.0	11.0	10.0	9.8	10.0
Mercury	mg/kg	<0.022	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Selenium	mg/kg	<1.1	4.6	<1.1	1.6	1.8	11.0	<1.1	1.2	<1.1	<1.2	<1.2
Silver	mg/kg	<0.56	<0.57	0.64	<0.57	0.80	<0.58	0.63	0.60	0.72	<0.58	0.64
Copper	mg/kg	9.1	10.0	10.0	13.0	10.0	13.0	8.9	11.0	12.0	12.0	11.0
Iron	mg/kg	14,000	13,000	16,000	16,000	18,000	14,000	15,000	18,000	17,000	16,000	18,000
Manganese	mg/kg	380	140	250	200	190	310	370	230	170	170	190
Zinc	mg/kg	38	34	50	47	47	31	41	53	50	52	51
Radium-226	pCi/g	0.700	0.963	1.050	1.050	1.040	1.010	1.050	0.906	1.220	1.050	0.906
Radium -228	pCi/g	1.300	1.480	1.340	1.450	1.280	1.830	1.160	1.440	1.460	1.280	1.210
Combined Radioactivity	pCi/g	2.000	2.443	2.390	2.500	2.320	2.840	2.210	2.346	2.680	2.330	2.116

Notes:

% - percent
mg/kg - milligram per kilogram
pCi/g - PicoCurries per gram
S.U. - Standard unit



APPENDIX A
LABORATORY ANALYTICAL REPORTS





12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

Report Summary

Friday June 03, 2011

Report Number: L517393

Samples Received: 05/24/11

Client Project:

Description: Coronado Pond 2

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:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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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

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : A
 Collected By :
 Collection Date : 05/23/11 12:00

ESC Sample # : L517393-01
 Site ID : CORONADO POND 2
 Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	69.	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	06/02/11	1
pH	8.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.9	1.1	mg/kg	6010B	05/26/11	1
Barium	160	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	10.	0.57	mg/kg	6010B	05/26/11	1
Copper	10.	1.1	mg/kg	6010B	05/26/11	1
Iron	13000	5.7	mg/kg	6010B	05/26/11	1
Lead	9.3	0.28	mg/kg	6010B	05/26/11	1
Manganese	140	0.57	mg/kg	6010B	05/26/11	1
Selenium	4.6	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.57	mg/kg	6010B	05/26/11	1
Zinc	34.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	99.0		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L517393-01 (PH) - 8.3@21.0c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : B
 Collected By :
 Collection Date : 05/23/11 12:06

BSC Sample # : L517393-02

Site ID : CORONADO POND 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	16.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	360	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.2		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/25/11	1
Arsenic	1.6	1.1	mg/kg	6010B	05/25/11	1
Barium	640	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.29	mg/kg	6010B	05/25/11	1
Manganese	250	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.64	0.57	mg/kg	6010B	05/25/11	1
Zinc	50.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021B	05/26/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L517393-02 (PH) - 8.2@21.0c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : C
 Collected By :
 Collection Date : 05/23/11 12:12

ESC Sample # : L517393-03
 Site ID : CORONADO POND 2
 Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	120	11.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.1	mg/kg	9056	05/25/11	1
Nitrate	1.8	1.1	mg/kg	9056	05/25/11	1
Sulfate	190	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	10.	0.57	mg/kg	6010B	05/25/11	1
Copper	13.	1.1	mg/kg	6010B	05/25/11	1
Iron	16000	5.7	mg/kg	6010B	05/25/11	1
Lead	9.5	0.28	mg/kg	6010B	05/25/11	1
Manganese	200	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.6	1.1	mg/kg	6010B	05/25/11	1
Silver	BDL	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	105.		% Rec.	8021B	05/26/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : D
 Collected By :
 Collection Date : 05/23/11 12:17

ESC Sample # : L517393-04

Site ID : CORONADO POND 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	68.	11.	mg/kg	9056	05/25/11	1
Fluoride	12.	1.1	mg/kg	9056	05/25/11	1
Nitrate	BDL	1.1	mg/kg	9056	05/25/11	1
Sulfate	110	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/25/11	1
Barium	220	0.28	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/25/11	1
Chromium	11.	0.57	mg/kg	6010B	05/25/11	1
Copper	10.	1.1	mg/kg	6010B	05/25/11	1
Iron	18000	5.7	mg/kg	6010B	05/25/11	1
Lead	10.	0.28	mg/kg	6010B	05/25/11	1
Manganese	190	0.57	mg/kg	6010B	05/25/11	1
Selenium	1.8	1.1	mg/kg	6010B	05/25/11	1
Silver	0.80	0.57	mg/kg	6010B	05/25/11	1
Zinc	47.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/26/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L517393-04 (PH) - 8.7@21.1c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

ESC Sample # : L517393-05

Date Received : May 24, 2011
 Description : Coronado Pond 2

Site ID : CORONADO POND 2

Sample ID : F

Project # :

Collected By :
 Collection Date : 05/23/11 12:22

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	150	11.	mg/kg	9056	05/25/11	1
Fluoride	6.2	1.1	mg/kg	9056	05/25/11	1
Nitrate	5.6	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	3.3	1.1	mg/kg	6010B	05/25/11	1
Barium	250	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.57	mg/kg	6010B	05/25/11	1
Copper	8.9	1.1	mg/kg	6010B	05/25/11	1
Iron	15000	5.7	mg/kg	6010B	05/25/11	1
Lead	12.	0.29	mg/kg	6010B	05/25/11	1
Manganese	370	0.57	mg/kg	6010B	05/25/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/25/11	1
Silver	0.63	0.57	mg/kg	6010B	05/25/11	1
Zinc	41.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/26/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/26/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/26/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021B	05/26/11	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:

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 L517393-05 (PH) - 8.7@21.0c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : G
 Collected By :
 Collection Date : 05/23/11 12:27

ESC Sample # : L517393-06
 Site ID : CORONADO POND 2
 Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	620	12.	mg/kg	9056	05/25/11	1
Fluoride	14.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.7	1.2	mg/kg	9056	05/25/11	1
Sulfate	560	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.3		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.4	1.2	mg/kg	6010B	05/25/11	1
Barium	300	0.29	mg/kg	6010B	05/25/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/25/11	1
Chromium	13.	0.58	mg/kg	6010B	05/25/11	1
Copper	11.	1.2	mg/kg	6010B	05/25/11	1
Iron	18000	5.8	mg/kg	6010B	05/25/11	1
Lead	11.	0.29	mg/kg	6010B	05/25/11	1
Manganese	230	0.58	mg/kg	6010B	05/25/11	1
Selenium	1.2	1.2	mg/kg	6010B	05/25/11	1
Silver	0.60	0.58	mg/kg	6010B	05/25/11	1
Zinc	53.	1.7	mg/kg	6010B	05/25/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0086	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)

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 L517393-06 (PH) - 9.3@21.0c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2

Sample ID : H

Collected By :
 Collection Date : 05/23/11 12:39

ESC Sample # : L517393-07

Site ID : CORONADO POND 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	560	11.	mg/kg	9056	05/25/11	1
Fluoride	26.	1.1	mg/kg	9056	05/25/11	1
Nitrate	3.7	1.1	mg/kg	9056	05/25/11	1
Sulfate	400	57.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	10.		su	9045D	05/27/11	1
Total Solids	88.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.1	mg/kg	6010B	05/26/11	1
Barium	1000	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	11.	0.57	mg/kg	6010B	05/26/11	1
Copper	12.	1.1	mg/kg	6010B	05/26/11	1
Iron	17000	5.7	mg/kg	6010B	05/26/11	1
Lead	10.	0.28	mg/kg	6010B	05/26/11	1
Manganese	170	0.57	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	0.72	0.57	mg/kg	6010B	05/26/11	1
Zinc	50.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0085	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L517393-07 (PH) - 10.3@20.7c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
XTO Energy - San Juan Division
382 Road 3100
Aztec, NM 87410

Date Received : May 24, 2011
Description : Coronado Pond 2
Sample ID : I
Collected By :
Collection Date : 05/23/11 12:43

ESC Sample # : L517393-08

Site ID : CORONADO POND 2

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	370	12.	mg/kg	9056	05/25/11	1
Fluoride	28.	1.2	mg/kg	9056	05/25/11	1
Nitrate	11.	1.2	mg/kg	9056	05/25/11	1
Sulfate	490	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	8.7		su	9045D	05/27/11	1
Total Solids	87.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	1.2	1.2	mg/kg	6010B	05/26/11	1
Barium	270	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	10.	0.58	mg/kg	6010B	05/26/11	1
Copper	12.	1.2	mg/kg	6010B	05/26/11	1
Iron	16000	5.8	mg/kg	6010B	05/26/11	1
Lead	9.8	0.29	mg/kg	6010B	05/26/11	1
Manganese	170	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	BDL	0.58	mg/kg	6010B	05/26/11	1
Zinc	52.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0087	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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L517393-08 (PH) - 8.7@20.9c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : J
 Collected By :
 Collection Date : 05/23/11 12:30

ESC Sample # : L517393-09
 Site ID : CORONADO POND 2
 Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	680	12.	mg/kg	9056	05/25/11	1
Fluoride	17.	1.2	mg/kg	9056	05/25/11	1
Nitrate	7.9	1.2	mg/kg	9056	05/25/11	1
Sulfate	500	58.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.29	mg/kg	9012B	05/26/11	1
pH	9.6		su	9045D	05/27/11	1
Total Solids	86.		%	2540G	06/01/11	1
Mercury	BDL	0.023	mg/kg	7471	05/26/11	1
Arsenic	BDL	1.2	mg/kg	6010B	05/26/11	1
Barium	470	0.29	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.29	mg/kg	6010B	05/26/11	1
Chromium	12.	0.58	mg/kg	6010B	05/26/11	1
Copper	11.	1.2	mg/kg	6010B	05/26/11	1
Iron	18000	5.8	mg/kg	6010B	05/26/11	1
Lead	10.	0.29	mg/kg	6010B	05/26/11	1
Manganese	190	0.58	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.2	mg/kg	6010B	05/26/11	1
Silver	0.64	0.58	mg/kg	6010B	05/26/11	1
Zinc	51.	1.8	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.029	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0029	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0088	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%)						
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 06/03/11 14:07 Printed: 06/03/11 14:30

L517393-09 (PH) - 9.6@20.6c



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REPORT OF ANALYSIS

June 03, 2011

James McDaniel
 XTO Energy - San Juan Division
 382 Road 3100
 Aztec, NM 87410

Date Received : May 24, 2011
 Description : Coronado Pond 2
 Sample ID : BACKGROUND
 Collected By :
 Collection Date : 05/23/11 12:35

ESC Sample # : L517393-10
 Site ID : CORONADO POND 2
 Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	58.	11.	mg/kg	9056	05/25/11	1
Fluoride	3.3	1.1	mg/kg	9056	05/25/11	1
Nitrate	6.4	1.1	mg/kg	9056	05/25/11	1
Sulfate	BDL	56.	mg/kg	9056	05/25/11	1
Cyanide	BDL	0.28	mg/kg	9012B	05/26/11	1
pH	8.1		su	9045D	05/27/11	1
Total Solids	89.		%	2540G	06/01/11	1
Mercury	BDL	0.022	mg/kg	7471	05/26/11	1
Arsenic	2.1	1.1	mg/kg	6010B	05/26/11	1
Barium	780	0.28	mg/kg	6010B	05/26/11	1
Cadmium	BDL	0.28	mg/kg	6010B	05/26/11	1
Chromium	9.7	0.56	mg/kg	6010B	05/26/11	1
Copper	9.1	1.1	mg/kg	6010B	05/26/11	1
Iron	14000	5.6	mg/kg	6010B	05/26/11	1
Lead	11.	0.28	mg/kg	6010B	05/26/11	1
Manganese	380	0.56	mg/kg	6010B	05/26/11	1
Selenium	BDL	1.1	mg/kg	6010B	05/26/11	1
Silver	BDL	0.56	mg/kg	6010B	05/26/11	1
Zinc	38.	1.7	mg/kg	6010B	05/26/11	1
Benzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Toluene	BDL	0.028	mg/kg	8021B	05/25/11	5
Ethylbenzene	BDL	0.0028	mg/kg	8021B	05/25/11	5
Total Xylene	BDL	0.0084	mg/kg	8021B	05/25/11	5
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	107.		% Rec.	8021B	05/25/11	5

Results listed are dry weight basis.
 BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit (PQL)
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 L517393-10 (PH) - 8.1@20.8c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L517393-05	WG537164	SAMP	Barium	R1700509	V
	WG537164	SAMP	Iron	R1700509	V
	WG537164	SAMP	Manganese	R1700509	V
	WG537164	SAMP	Selenium	R1700509	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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June 03, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Ethylbenzene	< .0005	mg/kg			WG537267	05/25/11 09:33
Toluene	< .005	mg/kg			WG537267	05/25/11 09:33
Total Xylene	< .0015	mg/kg			WG537267	05/25/11 09:33
a,a,a-Trifluorotoluene (PID)		% Rec.	107.2	54-144	WG537267	05/25/11 09:33
Arsenic	< 1	mg/kg			WG537164	05/25/11 11:05
Barium	< .25	mg/kg			WG537164	05/25/11 11:05
Cadmium	< .25	mg/kg			WG537164	05/25/11 11:05
Chromium	< .5	mg/kg			WG537164	05/25/11 11:05
Copper	< 1	mg/kg			WG537164	05/25/11 11:05
Iron	< 5	mg/kg			WG537164	05/25/11 11:05
Lead	< .25	mg/kg			WG537164	05/25/11 11:05
Manganese	< .5	mg/kg			WG537164	05/25/11 11:05
Selenium	< 1	mg/kg			WG537164	05/25/11 11:05
Silver	< .5	mg/kg			WG537164	05/25/11 11:05
Zinc	< 1.5	mg/kg			WG537164	05/25/11 11:05
Chloride	< 10	mg/kg			WG537268	05/25/11 10:44
Fluoride	< 1	mg/kg			WG537268	05/25/11 10:44
Nitrate	< 1	mg/kg			WG537268	05/25/11 10:44
Sulfate	< 50	mg/kg			WG537268	05/25/11 10:44
Mercury	< .02	mg/kg			WG537172	05/25/11 14:35
Benzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Ethylbenzene	< .0005	mg/kg			WG537316	05/25/11 17:28
Toluene	< .005	mg/kg			WG537316	05/25/11 17:28
Total Xylene	< .0015	mg/kg			WG537316	05/25/11 17:28
a,a,a-Trifluorotoluene (PID)		% Rec.	102.6	54-144	WG537316	05/25/11 17:28
Benzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Ethylbenzene	< .0005	mg/kg			WG537173	05/26/11 01:58
Toluene	< .005	mg/kg			WG537173	05/26/11 01:58
Total Xylene	< .0015	mg/kg			WG537173	05/26/11 01:58
a,a,a-Trifluorotoluene (PID)		% Rec.	104.4	54-144	WG537173	05/26/11 01:58
Arsenic	< 1	mg/kg			WG537166	05/26/11 12:16
Barium	< .25	mg/kg			WG537166	05/26/11 12:16
Cadmium	< .25	mg/kg			WG537166	05/26/11 12:16
Chromium	< .5	mg/kg			WG537166	05/26/11 12:16
Copper	< 1	mg/kg			WG537166	05/26/11 12:16
Iron	< 5	mg/kg			WG537166	05/26/11 12:16
Lead	< .25	mg/kg			WG537166	05/26/11 12:16
Manganese	< .5	mg/kg			WG537166	05/26/11 12:16
Selenium	< 1	mg/kg			WG537166	05/26/11 12:16
Silver	< .5	mg/kg			WG537166	05/26/11 12:16
Zinc	< 1.5	mg/kg			WG537166	05/26/11 12:16
Mercury	< .02	mg/kg			WG537237	05/26/11 10:49

* Performance of this Analyte is outside of established criteria.
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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Cyanide	< .25	mg/kg			WG537202	05/26/11 13:59
Arsenic	< 1	mg/kg			WG537330	05/26/11 17:21
Barium	< .25	mg/kg			WG537330	05/26/11 17:21
Cadmium	< .25	mg/kg			WG537330	05/26/11 17:21
Chromium	< .5	mg/kg			WG537330	05/26/11 17:21
Copper	< 1	mg/kg			WG537330	05/26/11 17:21
Iron	< 5	mg/kg			WG537330	05/26/11 17:21
Lead	< .25	mg/kg			WG537330	05/26/11 17:21
Manganese	< .5	mg/kg			WG537330	05/26/11 17:21
Selenium	< 1	mg/kg			WG537330	05/26/11 17:21
Silver	< .5	mg/kg			WG537330	05/26/11 17:21
Zinc	< 1.5	mg/kg			WG537330	05/26/11 17:21
pH	3.70	su			WG537706	05/27/11 11:15
Total Solids	< .1	%			WG538160	06/01/11 11:20
Total Solids	< .1	%			WG538159	06/01/11 11:36
Cyanide	< .25	mg/kg			WG538237	06/02/11 12:15

Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch
			Duplicate	RPD			
Arsenic	mg/kg	2.80	2.80	1.42	20	L517393-05	WG537164
Barium	mg/kg	190.	220.	13.1	20	L517393-05	WG537164
Cadmium	mg/kg	0	0	0	20	L517393-05	WG537164
Chromium	mg/kg	11.0	11.0	1.80	20	L517393-05	WG537164
Copper	mg/kg	7.40	7.80	5.26	20	L517393-05	WG537164
Iron	mg/kg	14000	13000	3.77	20	L517393-05	WG537164
Lead	mg/kg	9.80	10.0	1.61	20	L517393-05	WG537164
Manganese	mg/kg	300.	320.	5.79	20	L517393-05	WG537164
Selenium	mg/kg	2.30	0	NA	20	L517393-05	WG537164
Silver	mg/kg	0.660	0.550	18.9	20	L517393-05	WG537164
Zinc	mg/kg	35.0	36.0	2.25	20	L517393-05	WG537164
Sulfate	mg/kg	0	15.5	NA	20	L516850-05	WG537268
Mercury	mg/kg	0.0240	0.0200	19.8	20	L517313-01	WG537172
Arsenic	mg/kg	0.980	1.10	11.8	20	L517397-04	WG537166
Barium	mg/kg	20.0	23.0	16.5	20	L517397-04	WG537166
Cadmium	mg/kg	0	0	0	20	L517397-04	WG537166
Chromium	mg/kg	5.00	5.30	6.03	20	L517397-04	WG537166
Copper	mg/kg	2.90	3.32	12.5	20	L517397-04	WG537166
Iron	mg/kg	5100	5610	8.94	20	L517397-04	WG537166
Lead	mg/kg	2.10	2.30	7.21	20	L517397-04	WG537166
Manganese	mg/kg	140.	162.	12.5	20	L517397-04	WG537166
Selenium	mg/kg	1.10	0	NA	20	L517397-04	WG537166
Silver	mg/kg	0.250	0.320	23.0*	20	L517397-04	WG537166

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Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Zinc	mg/kg	11.0	11.7	5.26	20	L517397-04	MG537166
Mercury	mg/kg	0	0	0	20	L517393-01	MG537237
Cyanide	mg/kg	0	0	0	20	L517393-08	MG537202
Cyanide	mg/kg	0	0	0	20	L517237-03	MG537202
Barium	mg/kg	280	260	8.47	20	L517500-02	MG537330
Cadmium	mg/kg	0.620	0.580	6.67	20	L517500-02	MG537330
Chromium	mg/kg	18.0	22.0	20.0	20	L517500-02	MG537330
Copper	mg/kg	24.0	25.0	6.19	20	L517500-02	MG537330
Iron	mg/kg	13000	12600	5.41	20	L517500-02	MG537330
Lead	mg/kg	14.0	13.0	6.69	20	L517500-02	MG537330
Manganese	mg/kg	240	248	5.38	20	L517500-02	MG537330
Selenium	mg/kg	1.70	1.70	2.38	20	L517500-02	MG537330
Silver	mg/kg	0	0	0.700	20	L517500-02	MG537330
Zinc	mg/kg	43.0	43.0	0.700	20	L517500-02	MG537330
Arsenic	mg/kg	15.0	14.0	5.56	20	L517500-02	MG537330
pH	su	7.30	7.30	0	1	L517347-02	MG537706
pH	su	8.30	8.30	0	1	L517500-02	MG537706
Total Solids	%	63.0	65.1	2.56	5	L517414-02	MG538160
Total Solids	%	87.0	87.0	0.0934	5	L517313-22	MG538159
Cyanide	mg/kg	0	0	0	20	L517496-01	MG538237

Analyte	Units	Laboratory Known Val	Control Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0501	100.	76-113	MG537267
Ethylbenzene	mg/kg	.05	0.0501	100.	78-115	MG537267
Toluene	mg/kg	.05	0.0487	97.4	76-114	MG537267
Total Xylene	mg/kg	.15	0.149	99.1	81-118	MG537267
a,a,a-Trifluorotoluene (PFO)				105.3	54-144	MG537267
Arsenic	mg/kg	192	170.	88.5	78-6-120-8	MG537164
Barium	mg/kg	420	384.	91.4	78-8-121-4	MG537164
Cadmium	mg/kg	70.1	62.6	89.3	78-5-121-5	MG537164
Chromium	mg/kg	168	159.	94.6	80-4-120-2	MG537164
Copper	mg/kg	122	130.	98.4	81-6-119-7	MG537164
Iron	mg/kg	18100	16400	90.6	50-7-149-7	MG537164
Lead	mg/kg	113	103.	91.2	77-3-122-1	MG537164
Manganese	mg/kg	441	423.	95.9	78-9-120-9	MG537164
Selenium	mg/kg	176	161.	91.5	75-6-125-0	MG537164
Silver	mg/kg	115	111.	96.5	66-133-9	MG537164
Zinc	mg/kg	437	402.	92.0	78-5-121-7	MG537164
Chloride	mg/kg	200	204.	102.	85-115	MG537268

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	Laboratory Control		% Rec	Limit	Batch
		Known Val	Sample Result			
Fluoride	mg/Kg	20	20.1	101.	85-115	MG537268
Micrate	mg/Kg	20	20.0	100.	85-115	MG537268
Sulfate	mg/Kg	200	206.	103.	85-115	MG537268
Mercury	mg/Kg	8.77	7.72	88.0	71.6-127.7	MG537172
Benzene	mg/Kg	.05	0.0528	106.	76-113	MG537316
Ethylbenzene	mg/Kg	.05	0.0534	107.	78-115	MG537316
Toluene	mg/Kg	.05	0.0529	106.	76-114	MG537316
Total Xylene	mg/Kg	.15	0.161	107.	81-118	MG537316
a,a,a-Trifluorotoluene (PFD)				102.6	54-144	MG537316
Benzene	mg/Kg	.05	0.0488	97.6	76-113	MG537173
Ethylbenzene	mg/Kg	.05	0.0463	92.6	78-115	MG537173
Toluene	mg/Kg	.05	0.0475	95.1	76-114	MG537173
Total Xylene	mg/Kg	.15	0.144	96.3	81-118	MG537173
a,a,a-Trifluorotoluene (PFD)				105.4	54-144	MG537173
Arsenic	mg/Kg	192	188.	97.9	78.6-120.8	MG537166
Barium	mg/Kg	420	411.	97.9	78.8-121.4	MG537166
Cadmium	mg/Kg	70.1	68.4	97.6	78.5-121.5	MG537166
Chromium	mg/Kg	168	169.	101.	80.4-120.2	MG537166
Copper	mg/Kg	122	123.	101.	81.6-119.7	MG537166
Iron	mg/Kg	18100	18500	102.	50.7-149.7	MG537166
Lead	mg/Kg	113	114.	101.	77.3-122.1	MG537166
Manganese	mg/Kg	441	450.	102.	78.9-120.9	MG537166
Selenium	mg/Kg	176	176.	100.	75.6-125.0	MG537166
Silver	mg/Kg	115	115.	100.	66-133.9	MG537166
Zinc	mg/Kg	437	433.	99.1	78.5-121.7	MG537166
Mercury	mg/Kg	8.77	9.78	112.	71.6-127.7	MG537237
Cyanide	mg/Kg	28.1	25.8	91.8	50-150	MG537202
Arsenic	mg/Kg	192	176.	91.7	78.6-120.8	MG537330
Barium	mg/Kg	420	395.	94.0	78.8-121.4	MG537330
Cadmium	mg/Kg	70.1	63.8	91.0	78.5-121.5	MG537330
Chromium	mg/Kg	168	163.	96.4	80.4-120.2	MG537330
Copper	mg/Kg	122	120.	98.4	81.6-119.7	MG537330
Iron	mg/Kg	18100	16600	91.7	50.7-149.7	MG537330
Lead	mg/Kg	113	103.	92.9	77.3-122.1	MG537330
Manganese	mg/Kg	441	410.	93.0	78.9-120.9	MG537330
Selenium	mg/Kg	176	170.	96.6	75.6-125.0	MG537330
Silver	mg/Kg	115	107.	93.0	66-133.9	MG537330
Zinc	mg/Kg	437	397.	90.8	78.5-121.7	MG537330
pH	RU	6.3	6.20	98.4	97.98-102.02	MG537706

Total Solids

%

50

50.0

100.

85-155

MG538160

* Performance of this Analyte is outside of established criteria.

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Total Solids	%	50	50.0	100.	85-155	WG538159
Cyanide	mg/kg	28.1	26.6	94.7	50-150	WG538237

Analyte	Units	Laboratory Control Sample Duplicate		% Rec	Limit	RPD	Limit	Batch
		Result	Ref					
Benzene	mg/kg	0.0494	0.0501	99.0	76-113	1.47	20	WG537267
Ethylbenzene	mg/kg	0.0494	0.0501	99.0	78-115	1.39	20	WG537267
Toluene	mg/kg	0.0479	0.0487	96.0	76-114	1.59	20	WG537267
Total Xylene	mg/kg	0.147	0.149	98.0	81-118	1.43	20	WG537267
a, a, a-Trifluorotoluene (PID)				105.9	54-144			WG537267
Chloride	mg/kg	198.	204.	99.0	85-115	2.99	20	WG537268
Fluoride	mg/kg	19.7	20.1	98.0	85-115	2.01	20	WG537268
Nitrate	mg/kg	19.6	20.0	98.0	85-115	2.02	20	WG537268
Sulfate	mg/kg	202.	206.	101.	85-115	1.96	20	WG537268
Benzene	mg/kg	0.0487	0.0528	97.0	76-113	8.24	20	WG537316
Ethylbenzene	mg/kg	0.0503	0.0534	101.	78-115	5.89	20	WG537316
Toluene	mg/kg	0.0490	0.0529	98.0	76-114	7.70	20	WG537316
Total Xylene	mg/kg	0.152	0.161	102.	81-118	5.58	20	WG537316
a, a, a-Trifluorotoluene (PID)				104.5	54-144			WG537316
Benzene	mg/kg	0.0494	0.0488	99.0	76-113	1.32	20	WG537173
Ethylbenzene	mg/kg	0.0469	0.0463	94.0	78-115	1.41	20	WG537173
Toluene	mg/kg	0.0476	0.0475	95.0	76-114	0.0800	20	WG537173
Total Xylene	mg/kg	0.147	0.144	98.0	81-118	1.51	20	WG537173
a, a, a-Trifluorotoluene (PID)				105.9	54-144			WG537173
Cyanide	mg/kg	28.6	25.8	102.	50-150	10.3	20	WG537202
pH	su	6.20	6.20	98.0	97.98-102.02	0	20	WG537706
Cyanide	mg/kg	25.5	26.6	91.0	50-150	4.22	20	WG538237

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
Benzene	mg/kg	0.261	0	.05	104.	32-137	LS17288-01	WG537267
Ethylbenzene	mg/kg	0.235	0	.05	94.1	10-150	LS17288-01	WG537267
Toluene	mg/kg	0.236	0	.05	94.5	20-142	LS17288-01	WG537267
Total Xylene	mg/kg	0.700	0	.15	93.3	16-141	LS17288-01	WG537267
a, a, a-Trifluorotoluene (PID)					103.3	54-144		WG537267
Arsenic	mg/kg	49.9	2.80	50	94.2	75-125	LS17393-05	WG537164
Barium	mg/kg	257.	220.	50	74.0*	75-125	LS17393-05	WG537164
Cadmium	mg/kg	48.1	0	50	96.2	75-125	LS17393-05	WG537164
Chromium	mg/kg	60.6	11.0	50	99.2	75-125	LS17393-05	WG537164
Copper	mg/kg	59.6	7.80	50	104.	75-125	LS17393-05	WG537164

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410			Alternate Billing XTORN031810S			Analysis/Container/Preservative			Chain of Custody Page <u>2</u> of <u>2</u>			
Project Description: CORONADO POND #2			City/State Collected:			As, Ba, Cd, Cr, CN-, F, Pb, Hg, Se Ag, Cl, Cu, Fe, Mn, Zn SO ₄ , NO ₃ as N TDS, PH			Prepared by:			
PHONE: 505-333-3701			Client Project No.						Lab Project #		ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
FAX:											CoCode (lab use only)	
Collected by:			Site/Facility ID# CORONADO POND #2						P.O.#		XTORNM Template/Prelogin	
Collected by(signature):			<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified) ___ Next Day.....100% ___ Two Day.....50% ___ Three Day.....25%						Date Results Needed Email? ___ No ___ X ___ Yes FAX? ___ No ___ Yes		Shipped Via: Fed Ex	
Packed on Ice N ___ Y ___								Remarks/contaminant Sample # (lab only)				
Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs						
J	Comp	S/S		5/23/11	12:30	2			L517393-09			
Background	Grab	↓		↓	12:35	2			-10			

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

Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by (Signature) 	Date: 5/23/11	Time: 1500	Received by (Signature) 	Samples returned via: FedEx_X_UPS_Other_	Condition (lab use only)
Relinquisher by (Signature)	Date:	Time:	Received by (Signature)	Temp: 3.5°C	Bottles Received: 20-402
Relinquisher by (Signature)	Date:	Time:	Received for lab by (Signature) Kim Wren	Date: 5/24/11	Time: 0500
				pH Checked:	NCF: YES



NON-CONFORMANCE FORM

Login No.: LS17393
Date: 05-24-11
Evaluated by: J. Fuller
Client: XTORNM

D

Non-Conformance (check applicable items)

- Parameter(s) past holding time
- Improper temperature
- Improper container type
- Improper preservation
- Container lid not intact
- Login Clarification Needed
- Chain of custody is incomplete
- Chain of Custody is missing (see below)
- Broken container(s) (See below)
- Broken container: sufficient sample volume remains for analysis requested (See below)

If no COC: Received by _____ Date: _____ Time: _____
Temp: _____ Cont. Rec: _____ pH: _____
 Fedex UPS SWA Other _____
Tracking # _____
 Insufficient packing material around container
 Insufficient packing material inside cooler
 Improper handling by carrier (FedEx / UPS / Courier)
 Sample was frozen

Comments: Client asked for TDS. Samples are soil.

Login Instructions:

TSR Initials: JFK

Client informed by call / (email) / fax / voice mail date: 5/24 time: 13:45

Client contact: Notified client + TDS is water only

Summary of Remarks For Samples Printed
05/24/11 at 16:43:21

TSR Signing Reports: 288
R5 - Desired TAT

drywt

Sample: L516379-01 Account: XTORNM Received: 05/17/11 09:00 Due Date: 05/24/11 00:00 RPT Date: 05/24/11 16:42



L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

XTO Energy - San Juan Division
James McDaniel
392 Road 3100

Aztec, NM 87410

Quality Assurance Report

Level II

LS16379

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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 52-0814289

Btc. 1970

May 24, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Chloride	< 10	mg/Kg			WG536120	05/18/11 10:38
Fluoride	< 1	mg/Kg			WG536120	05/18/11 10:38
Nitrate	< 1	mg/Kg			WG536120	05/18/11 10:38
Sulfate	< 50	mg/Kg			WG536120	05/18/11 10:38
Mercury	< .02	mg/Kg			WG536128	05/18/11 14:32
Benzene	< .0005	mg/Kg			WG536259	05/18/11 19:15
Ethylbenzene	< .0005	mg/Kg			WG536259	05/18/11 19:15
Toluene	< .005	mg/Kg			WG536259	05/18/11 19:15
Total Xylene	< .0015	mg/Kg			WG536259	05/18/11 19:15
a,a,a-trifluorotoluene (PFD)		% Rec.	94.62	54-144		
Arsenic	< 1	mg/Kg			WG536127	05/19/11 12:12
Barium	< .25	mg/Kg			WG536127	05/19/11 12:12
Cadmium	< .25	mg/Kg			WG536127	05/19/11 12:12
Chromium	< .5	mg/Kg			WG536127	05/19/11 12:12
Copper	< 1	mg/Kg			WG536127	05/19/11 12:12
Iron	< 5	mg/Kg			WG536127	05/19/11 12:12
Lead	< .25	mg/Kg			WG536127	05/19/11 12:12
Manganese	< .5	mg/Kg			WG536127	05/19/11 12:12
Zinc	< 1.5	mg/Kg			WG536127	05/19/11 12:12
Selenium	< 1	mg/Kg			WG536127	05/19/11 01:34
pH	4.30	su			WG536341	05/20/11 08:17
Silver	< .5	mg/Kg			WG536512	05/20/11 14:48
Total Solids	< .1	%			WG536848	05/23/11 08:53
Cyanide	< .25	mg/Kg			WG536757	05/24/11 10:38

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	% Rec				
Sulfate	mg/Kg	0	6.50	NA	NA	20	LS16426-03	WG536120
Sulfate	mg/Kg	0	5.30	NA	NA	20	LS16426-05	WG536120
Mercury	mg/Kg	0.0420	0.0600	35.5*		20	LS16382-13	WG536128
Arsenic	mg/Kg	5.50	6.30	13.9		20	LS16426-03	WG536127
Barium	mg/Kg	130.	160.	17.7		20	LS16426-03	WG536127
Cadmium	mg/Kg	0.750	0.790	4.93		20	LS16426-03	WG536127
Chromium	mg/Kg	16.0	18.0	8.70		20	LS16426-03	WG536127
Copper	mg/Kg	12.0	0	NA		20	LS16426-03	WG536127
Iron	mg/Kg	15000	16000	5.79		20	LS16426-03	WG536127
Lead	mg/Kg	23.0	25.0	8.77		20	LS16426-03	WG536127
Manganese	mg/Kg	380.	580.	42.9*		20	LS16426-03	WG536127
Selenium	mg/Kg	12.0	13.0	8.00		20	LS16426-03	WG536127
Zinc	mg/Kg	100.	0	NA		20	LS16426-03	WG536127

* Performance of this Analyte is outside of established criteria.
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L.A.B 5-C-I-E-N-C-E-S

YOUR LAB OF CHOICE

XTO Energy - San Juan Division
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Quality Assurance Report
Level II

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Tax I.D. 62-0814289
Rec. 1970

May 24, 2011

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate	RPD				
pH	su	7.10	7.10	0	1	L516348-08	W0536341	
pH	su	9.20	9.20	0	1	L516495-38	W0536341	
Silver	mg/kg	0	0	0	20	L516837-01	W0536512	
Total Solids	%	72.0	73.8	2.60	5	L516971-07	W0536848	
Cyanide	mg/kg	0.670	0.660	1.20	20	L516441-01	W0536757	
Cyanide	mg/kg	2.90	0.780	115.*	20	L516355-06	W0536757	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chloride	mg/kg	200	202.	101.	85-115	W0536120
Fluoride	mg/kg	20	19.7	98.5	85-115	W0536120
Nitrate	mg/kg	200	19.9	99.5	85-115	W0536120
Sulfate	mg/kg	200	202.	101.	85-115	W0536120
Mercury	mg/kg	8.77	7.92	90.3	71.6-127.7	W0536128
Benzene	mg/kg	.05	0.0408	81.5	76-113	W0536259
Ethylbenzene	mg/kg	.05	0.0437	87.4	76-115	W0536259
Toluene	mg/kg	.05	0.0427	85.5	76-114	W0536259
Total Xylene	mg/kg	.15	0.130	86.9	81-118	W0536259
a,a,a-Trifluorotoluene (PID)	mg/kg			92.75	54-144	W0536259
Arsenic	mg/kg	192	162.	84.4	78.6-120.8	W0536127
Barium	mg/kg	420	366.	87.1	78.8-121.4	W0536127
Cadmium	mg/kg	70.1	61.8	88.2	78.5-121.5	W0536127
Chromium	mg/kg	168	149.	88.7	80.4-130.2	W0536127
Copper	mg/kg	122	114.	93.4	81.6-119.7	W0536127
Iron	mg/kg	18100	15600	86.2	50.7-149.7	W0536127
Lead	mg/kg	113	98.1	86.8	77.3-122.1	W0536127
Manganese	mg/kg	441	384.	87.1	78.9-120.9	W0536127
Selenium	mg/kg	176	164.	93.2	75.6-125.0	W0536127
Zinc	mg/kg	437	382.	87.4	78.5-121.7	W0536127
pH	su	6.3	6.30	100.	97.98-102.02	W0536341
Silver	mg/kg	115	100.	87.0	66-133.9	W0536512
Total Solids	%	50	50.0	100.	85-155	W0536848
Cyanide	mg/kg	28.1	21.4	76.2	50-150	W0536757

Analyte	Units	Laboratory Control Sample Duplicate		Limit	RPD	Limit	Batch
		Ref	Rec				
Chloride	mg/kg	207.	202.	85-115	2.44	20	W0536120

* Performance of this Analyte is outside of established criteria.
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L.A.B S.C.I.E.N.C.E.S

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Est. 1970

Quality Assurance Report
Level II

L516379

May 24, 2011

Analyte	Laboratory Result		Control Sample Duplicate		Limit	RPD	Limit	Batch
	Units	MSD	Ref	\$Rec				
Fluoride	mg/kg	20.2	19.7	101.	85-115	2.51	20	WGS36120
Nitrate	mg/kg	20.3	19.9	102.	85-115	1.99	20	WGS36120
Sulfate	mg/kg	208.	202.	104.	85-115	2.93	20	WGS36120
Benzene	mg/kg	0.0465	0.0408	93.0	76-113	13.2	20	WGS36259
Ethylbenzene	mg/kg	0.0509	0.0437	102.	78-115	15.2	20	WGS36259
Toluene	mg/kg	0.0483	0.0427	97.0	76-114	12.3	20	WGS36259
Total Xylene	mg/kg	0.152	0.130	102.	81-118	15.6	20	WGS36259
a.a.a-Trifluorotoluene (PID)			89.28		54-144			WGS36259
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WGS36341
Cyanide	mg/kg	27.7	21.4	98.0	50-150	25.7*	20	WGS36757

Analyte	Units	MS Res	Matrix Spike			Limit	Ref Samp	Batch
			Ref Res	TV	% Rec			
Sulfate	mg/kg	532.	4.00	500	106.	80-120	L516426-01	WGS36120
Mercury	mg/kg	0.340	0.0600	.25	112.	70-130	L516382-13	WGS36128
Benzene	mg/kg	0.180	0	.05	72.0	32-137	L516328-08	WGS36259
Ethylbenzene	mg/kg	0.185	0	.05	74.0	10-150	L516328-08	WGS36259
Toluene	mg/kg	0.187	0	.05	74.7	20-142	L516328-08	WGS36259
Total Xylene	mg/kg	0.561	0	.15	74.8	16-141	L516328-08	WGS36259
a.a.a-Trifluorotoluene (PID)				87.43		54-144		WGS36259
Arsenic	mg/kg	47.3	6.30	50	82.0	75-125	L516426-03	WGS36127
Barium	mg/kg	203.	160.	50	86.0	75-125	L516426-03	WGS36127
Cadmium	mg/kg	41.4	0.790	50	81.2	75-125	L516426-03	WGS36127
Chromium	mg/kg	60.2	18.0	50	84.4	75-125	L516426-03	WGS36127
Copper	mg/kg	59.9	0	50	120.	75-125	L516426-03	WGS36127
Iron	mg/kg	15700	16000	50	0*	75-125	L516426-03	WGS36127
Lead	mg/kg	66.7	25.0	50	83.4	75-125	L516426-03	WGS36127
Manganese	mg/kg	637.	580.	50	114.	75-125	L516426-03	WGS36127
Selenium	mg/kg	52.8	13.0	50	79.6	75-125	L516426-03	WGS36127
Zinc	mg/kg	143.	0	50	286.*	75-125	L516426-03	WGS36127
Silver	mg/kg	47.8	0	50	95.6	75-125	L516837-01	WGS36512
Cyanide	mg/kg	3.24	0	3.33	97.3	80-120	L516355-13	WGS36757

Analyte	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch	
	Units	MSD						
Sulfate	mg/kg	529.	532.	105.	80-120	0.566	20	WGS36120
Mercury	mg/kg	0.359	0.340	120.	70-130	5.44	20	L516382-13

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Quality Assurance Report
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Est. 1970

May 24, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Benzene	mg/kg	0.185	0.180	74.1	32-137	2.91	39	L516328-08	WG536259
Ethylbenzene	mg/kg	0.190	0.185	75.8	10-150	2.38	44	L516328-08	WG536259
Toluene	mg/kg	0.189	0.187	75.6	20-142	1.15	42	L516328-08	WG536259
Total Xylene	mg/kg	0.572	0.561	76.2	16-141	1.95	46	L516328-08	WG536259
a,a,a-Trifluorotoluene (PID)				89.45	54-144				WG536259
Arsenic	mg/kg	47.1	47.3	81.6	75-125	0.424	20	L516426-03	WG536127
Barium	mg/kg	197.	203.	74.0*	75-125	3.00	20	L516426-03	WG536127
Cadmium	mg/kg	42.1	41.4	82.6	75-125	1.68	20	L516426-03	WG536127
Chromium	mg/kg	62.3	60.2	88.6	75-125	3.43	20	L516426-03	WG536127
Copper	mg/kg	59.6	59.9	119.	75-125	0.502	20	L516426-03	WG536127
Iron	mg/kg	16600	15700	1200*	75-125	5.57	20	L516426-03	WG536127
Lead	mg/kg	64.1	66.7	78.2	75-125	3.98	20	L516426-03	WG536127
Manganese	mg/kg	421.	637.	0*	75-125	40.8*	20	L516426-03	WG536127
Selenium	mg/kg	54.4	52.8	82.8	75-125	2.99	20	L516426-03	WG536127
Zinc	mg/kg	126.	143.	252.*	75-125	12.6	20	L516426-03	WG536127
Silver	mg/kg	44.3	47.8	88.6	75-125	7.60	20	L516837-01	WG536512
Cyanide	mg/kg	3.44	3.24	103.	80-120	5.99	20	L516355-13	WG536757

Batch number / Run number / Sample number cross reference

WG536120: R1692610: L516379-01
 WG536128: R1692711: L516379-01
 WG536259: R1692929: L516379-01
 WG536127: R1693371: L516379-01
 WG536341: R1694309: L516379-01
 WG536512: R1695110: L516379-01
 WG536848: R1697115: L516379-01
 WG536757: R1698973: L516379-01

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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May 24, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address XTO Energy, Inc. 382 County Road 3100 Aztec, NM 87410		Alternate Billing XTORNM031810S		Analysis/Container/Preservative			Chain of Custody Page 1 of 1	
Project Description: Coronado Pond #2		City/State Collected: San Juan County, NM		As, Ba, Cd, Cr, CN, F, Pb, Hg, Se Ag, Cl, Cu, Fe, Mn, Zn SO4, NO3 as N TDS, PH			Prepared by: ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122 Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	
PHONE: 505-333-3701	Client Project No. -	Lab Project #					CoCode (lab use only) XTORNM	
FAX:	Collected by: Brooke Herb	Site/Facility ID# Coronado Pond #2		P.O.#		Shipped Via: Fed Ex		
Collected by (signature): Brooke Herb	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)	Date Results Needed		No		Remarks/contaminant		
Packed on Ice N <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/>	<input type="checkbox"/> Next Day..... 100%	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		of		Sample # (lab only)		
	<input type="checkbox"/> Two Day..... 50%	FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		Cntrs				
	<input type="checkbox"/> Three Day..... 25%							
Sample ID	Comp/Grab	Matrix	Depth	Date	Time			
E	Comp	S/S		5/10/11	13:30	2	LS16379-01	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____ pH _____ Temp _____
 Remarks: "ONLY 1 COC Per Site!!" Flow _____ Other _____

Relinquisher by (Signature): Brooke Herb	Date: 5/10/11	Time: 14:30	Received by (Signature):	Samples returned via: FedEx_X_UPS_Other_	Condition (lab use only)
Relinquisher by (Signature):	Date:	Time:	Received by (Signature):	Temp: 3.4	Bottles Received: 2-402
Relinquisher by (Signature):	Date:	Time:	Received for lab by (Signature): James McDaniel	Date: 5/17/11	Time: 0900
				pH Checked:	NCF:



NON-CONFORMANCE FORM

Login No.: LS14379
Date: 05-17-11
Evaluated by: J. Fuller
Client: XTORNM

Non-Conformance (check applicable items)

- | | |
|---|---|
| <input type="checkbox"/> Parameter(s) past holding time | <input checked="" type="checkbox"/> Login Clarification Needed |
| <input type="checkbox"/> Improper temperature | <input type="checkbox"/> Chain of custody is incomplete |
| <input type="checkbox"/> improper container type | <input type="checkbox"/> Chain of Custody is missing (see below) |
| <input type="checkbox"/> Improper preservation | <input type="checkbox"/> Broken container(s) (See below) |
| <input type="checkbox"/> Container lid not intact | <input type="checkbox"/> Broken container: sufficient sample
volume remains for analysis requested (See below) |

If no COC: Received by: _____ Insufficient packing material around container
Date: _____ Time: _____ Insufficient packing material inside cooler
Temp: _____ Cont. Rec. _____ pH: _____ Improper handling by carrier (FedEx / UPS / Courier)
 Fedex UPS SWA Other _____ Sample was frozen
Tracking # _____

Comments: We do not run TDS for soils.

Login Instructions:

TSR Initials: DK

Client informed by call / JM (email) / fax / voice mail date: 5/17 time: 14:00

Client contact: informed client



COVER LETTER

Monday, June 27, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519

FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105938

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 5/24/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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 do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

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

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: A
Lab Order: 1105938	Collection Date: 5/23/2011 12:00:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-01	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:02:36 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: B
Lab Order: 1105938	Collection Date: 5/23/2011 12:06:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-02	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	25		mg/Kg	5	Analyst: ELS 5/31/2011 11:04:39 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11

Analytical Report

CLIENT: XTO Energy	Client Sample ID: C
Lab Order: 1105938	Collection Date: 5/23/2011 12:12:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-03	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	25		mg/Kg	5	Analyst: ELS 5/31/2011 11:06:35 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: D
Lab Order: 1105938	Collection Date: 5/23/2011 12:17:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-04	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	25		mg/Kg	5	Analyst: ELS 5/31/2011 11:08:26 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: F
Lab Order: 1105938	Collection Date: 5/23/2011 12:22:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-05	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	25		mg/Kg	5	Analyst: ELS 5/31/2011 11:10:20 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	43	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: G
Lab Order: 1105938	Collection Date: 5/23/2011 12:27:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-06	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:12:14 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: H
Lab Order: 1105938	Collection Date: 5/23/2011 12:39:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-07	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	25		mg/Kg	5	Analyst: ELS 5/31/2011 11:21:16 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: I
Lab Order: 1105938	Collection Date: 5/23/2011 12:43:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-08	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						
Uranium	ND	50		mg/Kg	10	Analyst: ELS 5/31/2011 11:23:12 AM
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	Analyst: JB 6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: J
Lab Order: 1105938	Collection Date: 5/23/2011 12:30:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-09	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:26:41 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Jun-11
Analytical Report

CLIENT: XTO Energy	Client Sample ID: Background
Lab Order: 1105938	Collection Date: 5/23/2011 12:35:00 PM
Project: Coronado Pond #2	Date Received: 5/24/2011
Lab ID: 1105938-10	Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 6010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 11:28:35 AM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	6/1/2011

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



ANALYTICAL RESULTS

Project: 1105938
Pace Project No.: 3047433

Sample: 1105938-01B Lab ID: 3047433001 Collected: 05/23/11 12:00 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.963 ± 0.189 (0.179)	pCi/g	06/22/11 09:52	13982-63-3	
Radium-228	EPA 901.1m	1.48 ± 0.293 (0.268)	pCi/g	06/22/11 09:52	15262-20-1	

Sample: 1105938-02B Lab ID: 3047433002 Collected: 05/23/11 12:06 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.195 (0.184)	pCi/g	06/22/11 10:57	13982-63-3	
Radium-228	EPA 901.1m	1.34 ± 0.265 (0.281)	pCi/g	06/22/11 10:57	15262-20-1	

Sample: 1105938-03B Lab ID: 3047433003 Collected: 05/23/11 12:12 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.206 (0.185)	pCi/g	06/22/11 12:54	13982-63-3	
Radium-228	EPA 901.1m	1.45 ± 0.321 (0.238)	pCi/g	06/22/11 12:54	15262-20-1	

Sample: 1105938-04B Lab ID: 3047433004 Collected: 05/23/11 12:17 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.04 ± 0.179 (0.153)	pCi/g	06/22/11 14:00	13982-63-3	
Radium-228	EPA 901.1m	1.28 ± 0.302 (0.262)	pCi/g	06/22/11 14:00	15262-20-1	

Sample: 1105938-05B Lab ID: 3047433005 Collected: 05/23/11 12:22 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.201 (0.166)	pCi/g	06/22/11 15:03	13982-63-3	
Radium-228	EPA 901.1m	1.16 ± 0.273 (0.264)	pCi/g	06/22/11 15:03	15262-20-1	

Sample: 1105938-06B Lab ID: 3047433006 Collected: 05/23/11 12:27 Received: 05/27/11 10:30 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.906 ± 0.191 (0.181)	pCi/g	06/22/11 16:30	13982-63-3	
Radium-228	EPA 901.1m	1.44 ± 0.351 (0.291)	pCi/g	06/22/11 16:30	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.





ANALYTICAL RESULTS

Project: 1105938
 Pace Project No.: 3047433

Sample: 1105938-07B Lab ID: 3047433007 Collected: 05/23/11 12:39 Received: 05/27/11 10:30 Matrix: Solid
 PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.22 ± 0.219 (0.172)	pCi/g	06/23/11 08:57	13982-63-3	
Radium-228	EPA 901.1m	1.46 ± 0.308 (0.258)	pCi/g	06/23/11 08:57	15262-20-1	

Sample: 1105938-08B Lab ID: 3047433008 Collected: 05/23/11 12:43 Received: 05/27/11 10:30 Matrix: Solid
 PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.05 ± 0.195 (0.178)	pCi/g	06/23/11 09:59	13982-63-3	
Radium-228	EPA 901.1m	1.28 ± 0.276 (0.314)	pCi/g	06/23/11 09:59	15262-20-1	

Sample: 1105938-09B Lab ID: 3047433009 Collected: 05/23/11 12:30 Received: 05/27/11 10:30 Matrix: Solid
 PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.906 ± 0.181 (0.170)	pCi/g	06/23/11 11:03	13982-63-3	
Radium-228	EPA 901.1m	1.21 ± 0.269 (0.287)	pCi/g	06/23/11 11:03	15262-20-1	

Sample: 1105938-10B Lab ID: 3047433010 Collected: 05/23/11 12:35 Received: 05/27/11 10:30 Matrix: Solid
 PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	0.700 ± 0.168 (0.179)	pCi/g	06/23/11 12:56	13982-63-3	
Radium-228	EPA 901.1m	1.30 ± 0.316 (0.244)	pCi/g	06/23/11 12:56	15262-20-1	

Date: 06/24/2011 02:10 PM

REPORT OF LABORATORY ANALYSIS

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 without the written consent of Pace Analytical Services, Inc.



QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Coronado Pond #2

Work Order: 1105938

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-27004		MBLK									
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-27004		LCS									
Petroleum Hydrocarbons, TR	102.0	mg/Kg	20	100	0	102	81.4	118			
Sample ID: LCSD-27004		LCSD									
Petroleum Hydrocarbons, TR	104.6	mg/Kg	20	100	0	105	81.4	118	2.54	8.58	

Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26981		MBLK									
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26981		LCS									
Uranium	25.48	mg/Kg	5.0	25	0	102	80	120			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY
Work Order Number 1105938

Date Received: 5/24/2011

Received by: AMG

Sample ID labels checked by:

Checklist completed by:

[Signature]
Signature

5/24/11
Date

5/24/2011
[Initials]
Initials

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

<6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

-228)

Client: James McDaniel
XTO Energy
 Mailing Address: 382 CR 3100
AZKC, NM
 Phone #: 505-757-0519
 email or Fax#: _____
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush
 Project Name: Coronado Pond #2
 Project #: _____
 Project Manager: James McDaniel
 Sampler: Brooke Herb
 On Ice: Yes No
 Sample Temperature: _____

Analysis Request

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)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Uranium	Radiactivity (Combined Radium 226)	Air Bubbles (Y or N)
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	
			✓								✓	✓	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/23/11	12:00	Soil	A	4oz/2	NONE	1/05-938
	12:06		B			2
	12:12		C			3
	12:17		D			4
	12:23		E			5
	12:27		F			6
	12:39		G			7
	12:43		H			8
	12:30		I			9
✓	12:35	↓	Background	↓	↓	10

Date: 5/23/11 Time: 1523 Relinquished by: [Signature] Received by: Christine Walker Date: 5/23/11 Time: 1523 Remarks:
 Date: 5/23/11 Time: 11:47 Relinquished by: Christine Walker Received by: [Signature] Date: 5/24/11 Time: 11:913

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.

COVER LETTER

Thursday, June 16, 2011

James McDaniel
XTO Energy
382 County Road 3100
Aztec, NM 87410

TEL: (505) 787-0519

FAX (505) 333-3280

RE: Coronado Pond #2

Order No.: 1105696

Dear James McDaniel:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 5/17/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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 do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682



Hall Environmental Analysis Laboratory, Inc.

Date: 16-Jun-11
Analytical Report

CLIENT: XTO Energy Client Sample ID: E
Lab Order: 1105696 Collection Date: 5/16/2011 1:30:00 PM
Project: Coronado Pond #2 Date Received: 5/17/2011
Lab ID: 1105696-01 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8010B: SOIL METALS						Analyst: ELS
Uranium	ND	25		mg/Kg	5	5/31/2011 12:49:28 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	5/20/2011

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1105696
Pace Project No.: 3047004

Sample: 1105696-01B Lab ID: 3047004001 Collected: 05/16/11 13:30 Received: 05/20/11 10:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	1.01 ± 0.248 (0.209)	pCi/g	06/16/11 08:18	13982-63-3	
Radium-228	EPA 901.1m	1.83 ± 0.427 (0.184)	pCi/g	06/16/11 08:18	15262-20-1	

Date: 06/16/2011 02:33 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1105696
Pace Project No.: 3047004

QC Batch:	RADC/8455	Analysis Method:	EPA 901.1m
QC Batch Method:	EPA 901.1m	Analysis Description:	901.1 Gamma Spec
Associated Lab Samples:	3047004001		

METHOD BLANK:	302759	Matrix:	Solid
Associated Lab Samples:	3047004001		

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.0710 ± 0.140 (0.244)	pCi/g	06/16/11 08:50	
Radium-228	-0.041 ± 1.06 (0.407)	pCi/g	06/16/11 08:50	

Date: 06/16/2011 02:33 PM

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QA/QC SUMMARY REPORT

Client: XTO Energy
 Project: Coronado Pond #2

Work Order: 1105696

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 418.1: TPH											
Sample ID: MB-26897		MBLK									5/20/2011
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-26897		LCS									5/20/2011
Petroleum Hydrocarbons, TR	98.86	mg/Kg	20	100	0	96.9	81.4	118			
Sample ID: LCSD-26897		LCSD									5/20/2011
Petroleum Hydrocarbons, TR	98.20	mg/Kg	20	100	0	98.2	81.4	118	1.37	8.58	
Method: EPA Method 6010B: Soil Metals											
Sample ID: MB-26997		MBLK									5/31/2011 11:52:18 AM
Uranium	ND	mg/Kg	5.0								
Sample ID: LCS-26997		LCS									5/31/2011 11:54:15 AM
Uranium	25.49	mg/Kg	5.0	25	0.6564	99.3	80	120			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name XTO ENERGY

Date Received:

5/17/2011

Work Order Number 1105696

Received by: MMG

Checklist completed by: Michelle Gari 5/17/11
Signature Date

Sample ID labels checked by: MMG
Initials

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? Yes No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 1.0° <6° C Acceptable
if given sufficient time to cool.

Number of preserved bottles checked for pH: _____
<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

