TETRA TECH, INC.

1910 N. Big Spring St.
Midland, Texas 79705
432-686-8081

October 29, 2009

Mr. Geoffrey Leking
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, NM 88240

Ms. Trisha Bad Bear
US Bureau of Land Management
414 West Taylor
Hobbs, NM 88240

RE: Elvis Battery Finding Report
And Request for Closure
Lea County, New Mexico
Unit F, Sec. 20, T17S, R32E

Dear Mr. Leking and Ms. Bad Bear:

On behalf of ConocoPhillips, Tetra Tech is submitting this findings report for a subsurface investigation performed on October 3, 2009 at Elvis Battery (Site; Figure 1). This work is in support of ConocoPhillips efforts to delineate and remediate 20 barrel produced water release at the Site. The attached C141, submitted on April 15, 2008 to the New Mexico Oil Conservation Division (NMOCD), has not been approved by the agency. The battery is located approximately 1.3 miles northwest of the ConocoPhillips Maljamar office in Lea County, New Mexico (32.822380°N, 103.790333°W). The U.S. Bureau of Land Management is the land administrator.

The Elvis Battery is located in the Querecho Plains of eastern New Mexico. This area generally consists of a thin cover of Quaternary sand dunes overlying the undivided Triassic Upper Chinle Group. The soil consists of well-drained sand and sandy clay loam. Typically, the surface layer is reddish-brown loamy fine sand[1]. It is underlain by light red sandy clay. Below this is white moderately to well-indurated caliche. Underlying the caliche is dark reddish shales and thin sandstones of the undivided Triassic Upper Chinle Group[2]. The Upper Chinle Group consists of silty shale, thin bedded to massive, purplish red to reddish brown with greenish reduction spots. The Group is interbedded with thin beds of fine-grained sandstone with chert pebble gravel.

Soil in the area is the Kermit series and dune land[3]. It is reddish yellow fine grain sand.

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[1] Turner, M.T., D.N. Cox, B.C Mickelson, A.J. Roath, and C.D Wilson, 1973. Soil Survey Lea County, New Mexico. U.S. Depart of Agr Soil Conser Ser, 89p.
[2] Nicholson, Alexander, Jr. and Alfred Clebsch, Jr. 1961. Geology and Ground-Water Conditions in Southern Lea County, New Mexico. GW Rpt 6, State Bur. Mines & Mineral Res., NM Instit Mining & Tech. Socorro, NM. 123p.
[3] U.S. Natural Resources Conservation Service, 2009. Web Soil Survey. http://websoilsurvey.nrcs.usda.gov/

Exposure Pathway Analysis

Depth to water in the vicinity of the Site is estimated to be approximately 100 feet below ground surface (fbgs). This interpretation is based information gathered at another ConocoPhillips remediation project entitled "*Maljamar Gas Plant GW-020*," located approximately 1.3 miles southwest of the Site (Log attached). There is one dry playa approximately 0.4 miles southwest of the Site that briefly holds rain water following a storm event.

Following the ranking criteria presented in "*Guidelines for Remediation of Leaks, Spills, and Releases*" promulgated on August 13, 1993 by the NMOCD, this Site has the following score:

Criteria		Ranking Score
Depth to groundwater	> 100 feet	0
Distance from water source	>1,000 feet	0
Distance from domestic water source	>200 feet	0
Distance from surface water body	>1,000 feet	0
Total Ranking Score		0

The remediation action level for a ranking score of 0 is 10 parts per million (ppm) for benzene, 50 ppm for total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm for total petroleum hydrocarbons (TPH).

In the event of oil/gas releases to the environment, the NMOCD uses the New Mexico Water Quality Control Commission's maximum contaminate level of 250 ppm for chloride (20.6.2.3103 NMAC, Subsection A) for delineation.

Scope of Work

The lateral extent of the release area is defined by soil discoloration (Figure 2). Most of the release was contained on the site caliche pad, with some flow reaching a sand dune swale located immediately west of the pad. Tetra Tech used a backhoe to delineate the vertical extent of the produced water affected area.

Four (4) trenches were excavated inside the affected area and soil samples were collected every four feet in each trench. Soil samples collected from the trenches were field tested using a photo-ionization detector (PID) to screen for volatile organic compounds (VOC). Field chloride titrations were used to describe chloride conditions.

Two soil samples from each soil trench (highest chloride concentration and basal sample, 8 total were submitted to a laboratory for confirmation analyses. The samples were placed into glass sample jars, sealed with Teflon-lined lids, and placed on ice for transportation to an analytical laboratory where they were analyzed for diesel and gasoline range petroleum hydrocarbons

(TPH_{DRO} and TPH_{GRO}, Method 8015), BTEX (Method 8260), and chloride (Method 300.0). These analyses were used to evaluate subsurface conditions in the area of the produced water release. Excavated soil was returned to the trench.

Soil encountered at the Site was moist reddish yellow medium to very fine grained loose silty sands from the surface to varying depths. The dune sands overly red sandy clay interbedded with caliche.

TPH and BTEX laboratory analyses for this investigative event are presented in Table 1 and the Appendix. TPH and BTEX concentrations in all trenches were below NMOCD remedial guideline levels at all depths. BTEX was not detected in any of the soil samples.

Table 1
ConocoPhillips
Elvis Battery
Lea County, NM
October 3, 2009

Constituents			Units	Sampling Locations								Action Level (ppm)
				Soil Trench S1		Soil Trench S2		Soil Trench S3		Soil Trench S4		
				6 ft	10 ft	0.5 ft	6 ft	1 ft	3 ft	4 ft	15 ft	
Laboratory Analyses	TPH	GRO	(mg/Kg)	ND	ND	ND	340	ND	ND	ND	ND	5,000
		DRO	(mg/Kg)	ND	6.9	9.5	1200	ND	ND	8	ND	
	Benzene		(mg/Kg)	ND	ND	ND	0.069	ND	ND	ND	ND	10
	Ethylbenzene		(mg/Kg)	ND	ND	ND	4.1	ND	ND	ND	ND	
	Toluene		(mg/Kg)	ND	ND	ND	1.3	ND	ND	ND	ND	
	Xylenes Total		(mg/Kg)	ND	ND	ND	36.5	ND	ND	ND	ND	
	Total BTEX		(mg/Kg)	ND	ND	ND	42.0	ND	ND	ND	ND	50
	Chloride		(mg/Kg)	ND	126	ND	399	38	44.2	1250	897	

TPH = Total petroleum hydrocarbons
VOC = Volatile organic compounds
GRO = Gasoline range hydrocarbons
DRO = Diesel range hydrocarbons
ND = Not detected at or above laboratory level of detection
mg/Kg = miligrams per kilogram
ppm = Parts Per million
ft = Feet

Chloride concentrations ranged from non-detect to 1,250 milligrams per kilogram (mg/Kg; Table 1).

Conclusions

According to laboratory analysis of soils collected during this investigation, TPH and BTEX were either not detected or were reported at low concentrations in all samples. Exposure pathway analysis indicated a ranking score of "0." Therefore, the site-specific remediation levels are 5,000 mg/Kg for TPH, 50 mg/Kg for BTEX and 10 mg/Kg for benzene. Based on laboratory analyses presented in Table 1, the impacts to soil are below the NMOCD action levels for both TPH and BTEX in all affected areas.

Laboratory analyses indicate the produced water penetrated and migrated downward in the sandy soil and stayed generally within a swell (trench location S4) located between the sand dunes (Figure 2). The chloride concentrations attenuated with depth at the S4 location.

Recommendations

Tetra Tech recommends no further action be taken at the Elvis Battery, and requests closure of this Site.

If you concur with this recommendation or if you have any questions or require additional information, please contact me (432-686-8081) or Mr. John Gates (ConocoPhillips, 575-390-4821).

Sincerely,

Tetra Tech

Charles Durrett

Digitally signed by Charles Durrett
DN. cn=Charles Durrett, o=TETRA TECH, ou=Midland, TX, email=Charles.Durrett@TetraTech.com, c=US
Date: 2009 10.29 10.10:03 -05'00'

Charles Durrett
Sr. Project Manager

Cc: Mr. John Gates, ConocoPhillips

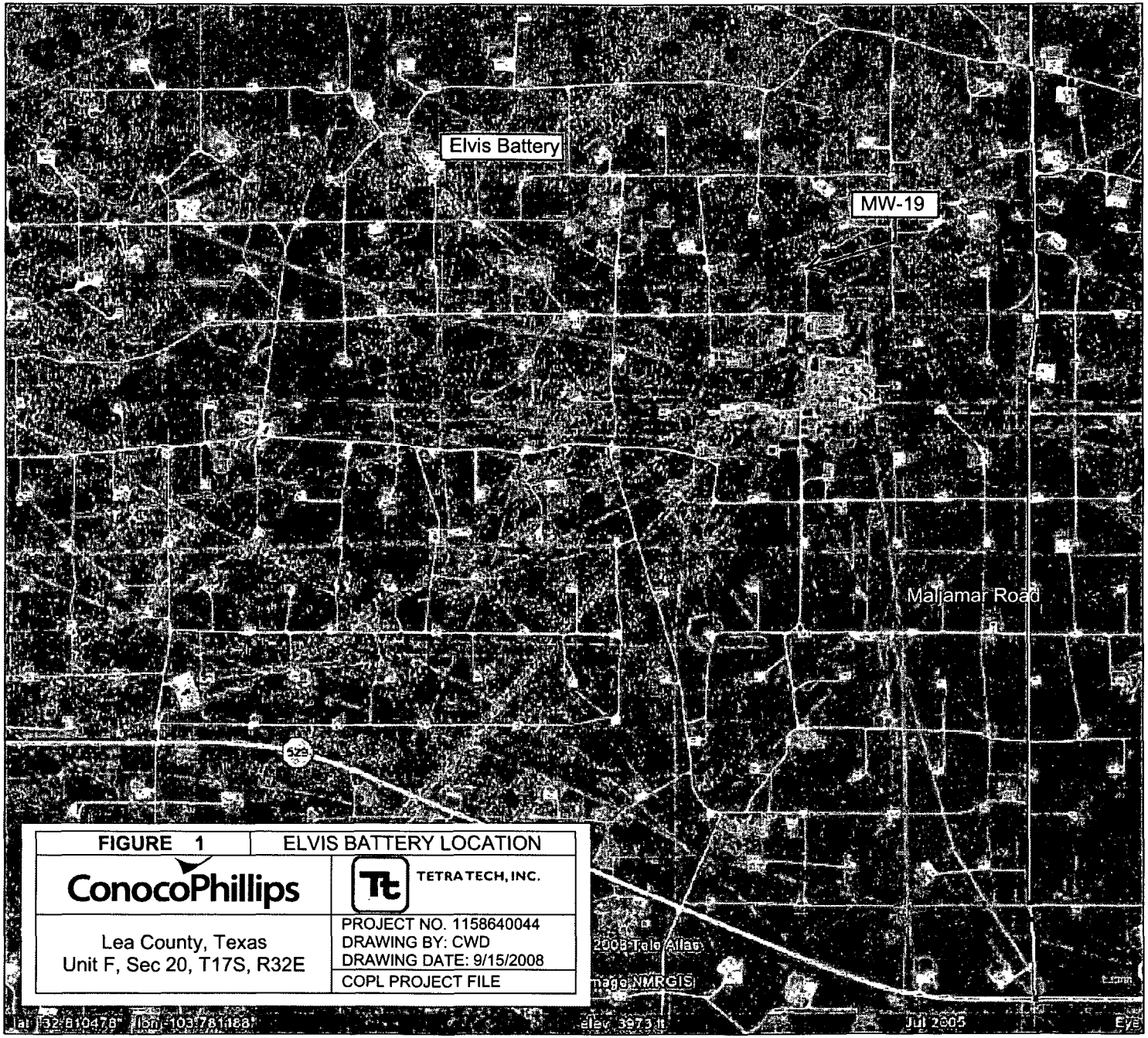


FIGURE 1	ELVIS BATTERY LOCATION
ConocoPhillips	TETRA TECH, INC.
Lea County, Texas Unit F, Sec 20, T17S, R32E	PROJECT NO. 1158640044 DRAWING BY: CWD DRAWING DATE: 9/15/2008 COPL PROJECT FILE

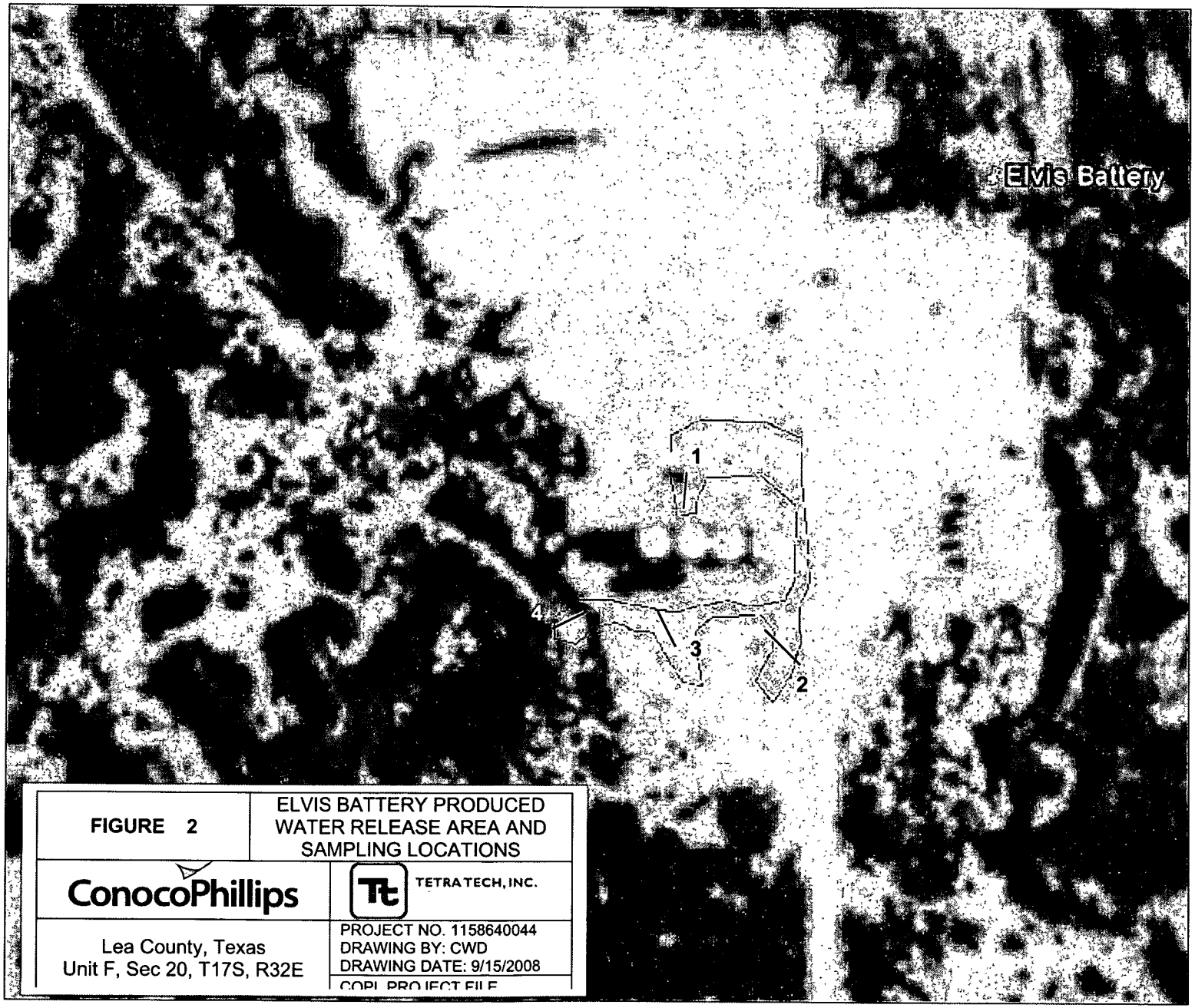


FIGURE 2	ELVIS BATTERY PRODUCED WATER RELEASE AREA AND SAMPLING LOCATIONS
ConocoPhillips	TETRA TECH, INC.
Lea County, Texas Unit F, Sec 20, T17S, R32E	PROJECT NO. 1158640044 DRAWING BY: CWD DRAWING DATE: 9/15/2008 COPI PROJECT FILE

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 **ConocoPhillips Company**	Contact **Mickey Garner**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **Elvis Battery**	Facility Type **Oil and Gas**

Surface Owner **BLM**	Mineral Owner **BLM**	API 30-025-33584

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	**20**	**17S**	**32E**					**Lea**

Latitude N 32 49.342 **Longitude W 103 47.419**

NATURE OF RELEASE

Type of Release **Produced Water**	Volume of Release 20bbl (0oil, 20water)	Volume Recovered (0oil, 0water)
Source of Release **3" steel transfer line**	Date and Hour of Occurrence **4-10-2008 1600**	Date and Hour of Discovery **4-10-2008 1700**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? **N/A**	Date and Hour **N/A N/A**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

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

Describe Cause of Problem and Remedial Action Taken.*
On Thursday April 10, 2008 at 5:30 pm at the Elvis Battery located 1 mile NW of the Maljamar, NM field office a 20 bbl produced water spill occurred due to external corrosion of a buried 3" steel water transfer line. Upon arriving on location the COPC MSO discovered water coming up from the ground near the water transfer pump. He shut down the pump, dug down to the line and installed an emergency clamp to stop the leak. The area will be remediated in accordance with NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.*
The affected area is 5840 sq. ft. of the battery pad and 810 sq. ft. of pasture land. The MSO was unable to get a vacuum truck to the location to pick up the standing water, therefore no liquid was recovered. Chloride concentration for this battery is 38,000.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: **Mickey Garner**	Approved by District Supervisor:	
Title: **HSER Lead**	Approval Date:	Expiration Date:
E-mail Address: **Mickey.D.Garner@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **4-15-2008** Phone: **575.391.3158**		

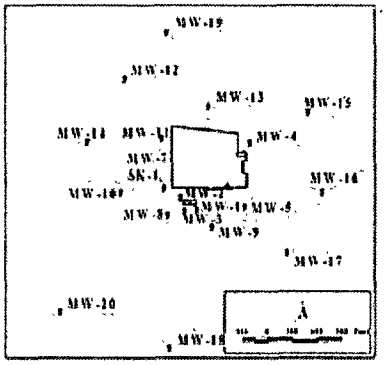
- Attach Additional Sheets If Necessary

BORING LOG

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

MONITORING WELL NO. MW-19
FIELD LOGGED BY: F. Lichnovsky
ELEVATION: GROUND SURFACE (msl): 4035.34 (ft)
GROUNDWATER ELEVATION (msl): 3922.34 (ft)
DRILL TYPE: Truck Mounted Air Rotary
BORE HOLE DIAMETER: 5 (in)
DRILLED BY: Scarborough Drilling
DATE/TIME: HOLE STARTED: 9/17/02
DATE/TIME: COMPLETED: 9/17/02
REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
msl=mean sea level
FOG-First occurrence of groundwater
SWL-Static Water Level

LOCATION MAP



WELL COMPLETION INFORMATION

Measuring Point Description (msl): Top of Casing
Measuring Point Elevation (msl): 4037.34
Static Water Level (feet below Top of Casing): 115
Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Cap
Type of Casing: PVC
Casing Diameter: 2 in.
Slot Size: 0.010 in

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
4035.0	1	GROUTED ANNULUS	SAND, red	SP					1.3	0
4030.0	2		Caliche, white, with sand, red						1.0	5
4025.0	3		SAND, light red	SP					2.4	10
4020.0	4								1.5	15
4015.0	5		Shale, red						1.1	20
4010.0	6								1.0	25
4005.0	7								2.3	30
4000.0	8		Shale and sand, red						3.7	35
3995.0										40

Boring Terminated at 120' bgs

Bulk Sampling

2690032	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	MW-19

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

MONITORING WELL NO. MW-19
FIELD LOGGED BY: F. Lichnovsky
ELEVATION: GROUND SURFACE (msl): 4035.34 (ft)
GROUNDWATER ELEVATION (msl): 3922.34 (ft)
DRILL TYPE: Truck Mounted Air Rotary
BORE HOLE DIAMETER: 5 (in)
DRILLED BY: Scarborough Drilling
DATE/TIME: HOLE STARTED: 9/17/02
DATE/TIME: COMPLETED: 9/17/02
REMARKS: bgs=Below Ground Surface
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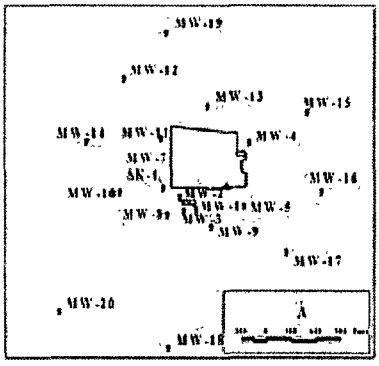
LOCATION MAP



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ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
3990.0	9		Shale and sand, reddish-brown						3.7	45
3985.0	10								3.5	50
			Shale, gray							
3980.0	11		Shale, dark reddish-purple						3.7	55
3975.0	12								1.8	60
			Shale and gravel, reddish-purple							
3970.0	13								2.8	65
3965.0	14								1.9	70
3960.0	15								2.8	75
3955.0	16								1.8	80

Boring Terminated at 120' bgs

Bulk Sampling

2690032	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	MW-19

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

MONITORING WELL NO. MW-19
FIELD LOGGED BY: F. Lichnovsky
ELEVATION: GROUND SURFACE (msl): 4035.34 (ft)
GROUNDWATER ELEVATION (msl): 3922.34 (ft)
DRILL TYPE: Truck Mounted Air Rotary

BORE HOLE DIAMETER: 5 (in)
DRILLED BY: Scarborough Drilling
DATE/TIME: HOLE STARTED: 9/17/02
DATE/TIME: COMPLETED: 9/17/02
REMARKS: bgs=Below Ground Surface
ND=Not Detected, NS=No Sample
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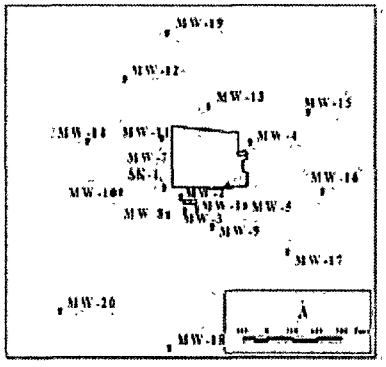

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Slot Size: 0.010 in

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
3950.0	17		Shale and sand, reddish-purple						3.1	85
3945.0	18	BENTONITE SEAL	Shale and sand, light yellow						2.0	90
3940.0	19								2.1	95
3935.0	20	SAND PACK	SAND, light yellow	SP					2.6	100
3930.0	21		SAND and shale, light yellow						2.3	105
3925.0	22		Shale, light green, hard						2.3	110
3920.0	23	9/17/02 SWL	Shale, light green						0.9	115
	24		Shale, light green, thin sand beds						0.7	120

Boring Terminated at 120' bgs

Bulk Sampling

2690032	MAXIM TECHNOLOGIES INC	EXPLORATORY BORING LOG	MW-19

APPENDIX

LABORATORY REPORT

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:

Conoco Phillips

Certificate of Analysis Number:

09100141

Report To:		Project Name:	COP Elvis Battery
Tetra Tech		Site:	Maljamar, NM
Charlie Durrett		Site Address:	
1910 N. Big Spring St			
Midland		PO Number:	
TX		State:	New Mexico
79705-		State Cert. No.:	
ph: (432) 682-4559	fax:	Date Reported:	10/14/2009

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

A trip blank was received with the samples but was not listed on the chain of custody. Per your request, SPL, Inc. did not analyze the trip blank.

II: ANALYSES AND EXCEPTIONS:

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Sample ID "S1-10'" (SPL ID: 09100141-02) was randomly selected for use in SPL's quality control program. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits due to possible matrix interference for Batch ID: R285673. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

Erica Cardenas
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Conoco Phillips

Certificate of Analysis Number:

09100141

Report To: Tetra Tech
Charlie Durrett
1910 N. Big Spring St

Midland
TX
79705-
ph: (432) 682-4559 fax: (432) 686-8085

Fax To:

Project Name: COP Elvis Battery
Site: Maljamar, NM
Site Address:

PO Number:
State: New Mexico
State Cert. No.:
Date Reported: 10/14/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
S1-6'	09100141-01	Soil	10/1/2009 11:30:00 AM	10/3/2009 9:30:00 AM		☐
S1-10'	09100141-02	Soil	10/1/2009 11:30:00 AM	10/3/2009 9:30:00 AM		☐
S2-6'	09100141-03	Soil	10/1/2009 1:45:00 PM	10/3/2009 9:30:00 AM		☐
S2-6"	09100141-04	Soil	10/1/2009 1:45:00 PM	10/3/2009 9:30:00 AM		☐
S3-1'	09100141-05	Soil	10/1/2009 4:45:00 PM	10/3/2009 9:30:00 AM		☐
S3-3'	09100141-06	Soil	10/1/2009 4:45:00 PM	10/3/2009 9:30:00 AM		☐
S4-6'	09100141-07	Soil	10/1/2009 7:00:00 PM	10/3/2009 9:30:00 AM		☐
S4-15'	09100141-08	Soil	10/1/2009 7:00:00 PM	10/3/2009 9:30:00 AM		☐
Trip Blank	09100141-09	Water	10/3/2009	10/3/2009 9:30:00 AM		☐

Erica Cardenas
Project Manager

10/15/2009
Date

Kesavalu M. Bagawandoss Ph.D., J.D.
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S1-6' **Collected:** 10/01/2009 11:30 **SPL Sample ID:** 09100141-01

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Diesel Range Organics (C10-C28)	ND		6.2	1	10/08/09 19:16	NW	5240629
Surr: n-Pentacosane	81.2		% 20-154	1	10/08/09 19:16	NW	5240629

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Gasoline Range Organics	ND		0.12	1	10/08/09 1:59	WLV	5237243
Surr: 1,4-Difluorobenzene	98.4		% 63-142	1	10/08/09 1:59	WLV	5237243
Surr: 4-Bromofluorobenzene	105		% 50-159	1	10/08/09 1:59	WLV	5237243

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:31	XML	1.00

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ION CHROMATOGRAPHY			**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**		
Chloride	ND		6.19	1	10/06/09 23:01	BDG	5234717

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE			**MCL**	**D2216**	**Units: wt%**		
Percent Moisture	19.2		0	1	10/05/09 15:41	CFS	5232251

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			**MCL**	**SW8021B**	**Units: ug/kg-dry**		
Benzene	ND		1.2	1	10/08/09 1:59	WLV	5237455
Toluene	ND		1.2	1	10/08/09 1:59	WLV	5237455
Ethylbenzene	ND		1.2	1	10/08/09 1:59	WLV	5237455
Methyl tert-butyl ether	ND		1.2	1	10/08/09 1:59	WLV	5237455
m,p-Xylene	ND		1.2	1	10/08/09 1:59	WLV	5237455
o-Xylene	ND		1.2	1	10/08/09 1:59	WLV	5237455
Xylenes,Total	ND		1.2	1	10/08/09 1:59	WLV	5237455
Total BTEX	ND		1.2	1	10/08/09 1:59	WLV	5237455
Surr: 1,4-Difluorobenzene	96.8		% 70-130	1	10/08/09 1:59	WLV	5237455
Surr: 4-Bromofluorobenzene	103		% 63-145	1	10/08/09 1:59	WLV	5237455

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:31	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S1-10' **Collected:** 10/01/2009 11:30 **SPL Sample ID:** 09100141-02

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Diesel Range Organics (C10-C28)	6.9		6	1	10/08/09 19:37	NW	5240630
Surr: n-Pentacosane	105		% 20-154	1	10/08/09 19:37	NW	5240630

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Gasoline Range Organics	ND		0.12	1	10/08/09 1:30	WLV	5237242
Surr: 1,4-Difluorobenzene	98.6		% 63-142	1	10/08/09 1:30	WLV	5237242
Surr: 4-Bromofluorobenzene	106		% 50-159	1	10/08/09 1:30	WLV	5237242

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:40	XML	1.00

ION CHROMATOGRAPHY			**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**		
Chloride	126		5.98	1	10/06/09 23:18	BDG	5234718

PERCENT MOISTURE			**MCL**	**D2216**	**Units: wt%**		
Percent Moisture	16.4		0	1	10/05/09 15:41	CFS	5232249

PURGEABLE AROMATICS			**MCL**	**SW8021B**	**Units: ug/kg-dry**		
Benzene	ND		1.2	1	10/08/09 1:30	WLV	5237441
Toluene	ND		1.2	1	10/08/09 1:30	WLV	5237441
Ethylbenzene	ND		1.2	1	10/08/09 1:30	WLV	5237441
Methyl tert-butyl ether	ND		1.2	1	10/08/09 1:30	WLV	5237441
m,p-Xylene	ND		1.2	1	10/08/09 1:30	WLV	5237441
o-Xylene	ND		1.2	1	10/08/09 1:30	WLV	5237441
Xylenes,Total	ND		1.2	1	10/08/09 1:30	WLV	5237441
Total BTEX	ND		1.2	1	10/08/09 1:30	WLV	5237441
Surr: 1,4-Difluorobenzene	97.2		% 70-130	1	10/08/09 1:30	WLV	5237441
Surr: 4-Bromofluorobenzene	102		% 63-145	1	10/08/09 1:30	WLV	5237441

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:40	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S2-6' **Collected:** 10/01/2009 13:45 **SPL Sample ID:** 09100141-03

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Diesel Range Organics (C10-C28)	12000		600	100	10/09/09 10:42	NW	5240637
Surr: n-Pentacosane	D	*	% 20-154	100	10/09/09 10:42	NW	5240637

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Gasoline Range Organics	340		24	200	10/08/09 5:48	WLV	5237248
Surr: 1,4-Difluorobenzene	102		% 63-142	200	10/08/09 5:48	WLV	5237248
Surr: 4-Bromofluorobenzene	209 MI	*	% 50-159	200	10/08/09 5:48	WLV	5237248

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/03/2009 11:48	JWS	1.00

ION CHROMATOGRAPHY			**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**		
Chloride	399		59.5	10	10/06/09 23:36	BDG	5234719
PERCENT MOISTURE			**MCL**	**D2216**	**Units: wt%**		
Percent Moisture	16		0	1	10/05/09 15:41	CFS	5232248
PURGEABLE AROMATICS			**MCL**	**SW8021B**	**Units: ug/kg-dry**		
Benzene	69		6	1	10/09/09 4:04	WLV	5239240
Toluene	1300		60	50	10/14/09 1:02	WLV	5245315
Ethylbenzene	4100		60	50	10/14/09 1:02	WLV	5245315
Methyl tert-butyl ether	21		6	1	10/09/09 4:04	WLV	5239240
m,p-Xylene	27000		60	50	10/14/09 1:02	WLV	5245315
o-Xylene	9500		60	50	10/14/09 1:02	WLV	5245315
Xylenes,Total	36500		59.5	50	10/14/09 1:02	WLV	5245315
Total BTEX	41969		59.52	50	10/14/09 1:02	WLV	5245315
Surr: 1,4-Difluorobenzene	99.8		% 70-130	50	10/14/09 1:02	WLV	5245315
Surr: 1,4-Difluorobenzene	159MI	*	% 70-130	1	10/09/09 4:04	WLV	5239240
Surr: 4-Bromofluorobenzene	148MI	*	% 63-145	50	10/14/09 1:02	WLV	5245315
Surr: 4-Bromofluorobenzene	482MI	*	% 63-145	1	10/09/09 4:04	WLV	5239240

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/09/2009 13:59	XML	1.00
SW5030B	10/08/2009 16:03	JWW	5.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S2-6" **Collected:** 10/01/2009 13:45 **SPL Sample ID:** 09100141-04

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Diesel Range Organics (C10-C28)	9.5		6	1	10/09/09 10:01	NW	5240635
Surr: n-Pentacosane	60.3		% 20-154	1	10/09/09 10:01	NW	5240635

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Gasoline Range Organics	ND		0.12	1	10/08/09 6:45	WLV	5237249
Surr: 1,4-Difluorobenzene	99.7		% 63-142	1	10/08/09 6:45	WLV	5237249
Surr: 4-Bromofluorobenzene	104		% 50-159	1	10/08/09 6:45	WLV	5237249

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:44	XML	1.00

ION CHROMATOGRAPHY			**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**		
Chloride	ND		6.02	1	10/06/09 23:54	BDG	5234720

PERCENT MOISTURE			**MCL**	**D2216**	**Units: wt%**		
Percent Moisture	16.9		0	1	10/05/09 15:41	CFS	5232247

PURGEABLE AROMATICS			**MCL**	**SW8021B**	**Units: ug/kg-dry**		
Benzene	ND		1.2	1	10/08/09 6:45	WLV	5237447
Toluene	ND		1.2	1	10/08/09 6:45	WLV	5237447
Ethylbenzene	ND		1.2	1	10/08/09 6:45	WLV	5237447
Methyl tert-butyl ether	ND		1.2	1	10/08/09 6:45	WLV	5237447
m,p-Xylene	ND		1.2	1	10/08/09 6:45	WLV	5237447
o-Xylene	ND		1.2	1	10/08/09 6:45	WLV	5237447
Xylenes,Total	ND		1.2	1	10/08/09 6:45	WLV	5237447
Total BTEX	ND		1.2	1	10/08/09 6:45	WLV	5237447
Surr: 1,4-Difluorobenzene	97.8		% 70-130	1	10/08/09 6:45	WLV	5237447
Surr: 4-Bromofluorobenzene	104		% 63-145	1	10/08/09 6:45	WLV	5237447

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:44	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S3-1' **Collected:** 10/01/2009 16:45 **SPL Sample ID:** 09100141-05

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Diesel Range Organics (C10-C28)	ND		6.2	1	10/08/09 19:57	NW	5240631
Surr: n-Pentacosane	80.7		% 20-154	1	10/08/09 19:57	NW	5240631

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS			**MCL**	**SW8015B**	**Units: mg/kg-dry**		
Gasoline Range Organics	ND		0.12	1	10/08/09 7:14	WLV	5237250
Surr: 1,4-Difluorobenzene	98.2		% 63-142	1	10/08/09 7:14	WLV	5237250
Surr: 4-Bromofluorobenzene	103		% 50-159	1	10/08/09 7:14	WLV	5237250

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:46	XML	1.00

ION CHROMATOGRAPHY			**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**		
Chloride	38.3		6.15	1	10/07/09 0:11	BDG	5234721

PERCENT MOISTURE			**MCL**	**D2216**	**Units: wt%**		
Percent Moisture	18.7		0	1	10/05/09 15:41	CFS	5232246

PURGEABLE AROMATICS			**MCL**	**SW8021B**	**Units: ug/kg-dry**		
Benzene	ND		1.2	1	10/08/09 7:14	WLV	5237448
Toluene	ND		1.2	1	10/08/09 7:14	WLV	5237448
Ethylbenzene	ND		1.2	1	10/08/09 7:14	WLV	5237448
Methyl tert-butyl ether	ND		1.2	1	10/08/09 7:14	WLV	5237448
m,p-Xylene	ND		1.2	1	10/08/09 7:14	WLV	5237448
o-Xylene	ND		1.2	1	10/08/09 7:14	WLV	5237448
Xylenes,Total	ND		1.2	1	10/08/09 7:14	WLV	5237448
Total BTEX	ND		1.2	1	10/08/09 7:14	WLV	5237448
Surr: 1,4-Difluorobenzene	98.0		% 70-130	1	10/08/09 7:14	WLV	5237448
Surr: 4-Bromofluorobenzene	103		% 63-145	1	10/08/09 7:14	WLV	5237448

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:46	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S3-3' **Collected:** 10/01/2009 16:45 **SPL Sample ID:** 09100141-06

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Diesel Range Organics (C10-C28)	ND		5.8	1	10/08/09 20:18	NW	5240632
Surr: n-Pentacosane	81.8		% 20-154	1	10/08/09 20:18	NW	5240632

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Gasoline Range Organics	ND		0.12	1	10/08/09 7:42	WLV	5237251
Surr: 1,4-Difluorobenzene	98.3		% 63-142	1	10/08/09 7:42	WLV	5237251
Surr: 4-Bromofluorobenzene	105		% 50-159	1	10/08/09 7:42	WLV	5237251

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:48	XML	1.00

ION CHROMATOGRAPHY				**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**	
Chloride	44.2		5.85	1	10/07/09 0:29	BDG	5234722
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	14.5		0	1	10/05/09 15:41	CFS	5232245
PURGEABLE AROMATICS				**MCL**	**SW8021B**	**Units: ug/kg-dry**	
Benzene	ND		1.2	1	10/08/09 7:42	WLV	5237449
Toluene	ND		1.2	1	10/08/09 7:42	WLV	5237449
Ethylbenzene	ND		1.2	1	10/08/09 7:42	WLV	5237449
Methyl tert-butyl ether	ND		1.2	1	10/08/09 7:42	WLV	5237449
m,p-Xylene	ND		1.2	1	10/08/09 7:42	WLV	5237449
o-Xylene	ND		1.2	1	10/08/09 7:42	WLV	5237449
Xylenes,Total	ND		1.2	1	10/08/09 7:42	WLV	5237449
Total BTEX	ND		1.2	1	10/08/09 7:42	WLV	5237449
Surr: 1,4-Difluorobenzene	95.2		% 70-130	1	10/08/09 7:42	WLV	5237449
Surr: 4-Bromofluorobenzene	102		% 63-145	1	10/08/09 7:42	WLV	5237449

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:48	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S4-6' **Collected:** 10/01/2009 19:00 **SPL Sample ID:** 09100141-07

Site: Maljamar, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS					**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Diesel Range Organics (C10-C28)	8			6.4	1	10/08/09 18:56	NW	5240628
Surr: n-Pentacosane	96.3		%	20-154	1	10/08/09 18:56	NW	5240628

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS					**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Gasoline Range Organics	ND			0.13	1	10/08/09 8:11	WLV	5237252
Surr: 1,4-Difluorobenzene	99.8		%	63-142	1	10/08/09 8:11	WLV	5237252
Surr: 4-Bromofluorobenzene	107		%	50-159	1	10/08/09 8:11	WLV	5237252

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:49	XML	1.00

ION CHROMATOGRAPHY					**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**	
Chloride	1250			63.6	10	10/07/09 0:47	BDG	5234723
PERCENT MOISTURE					**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21.4			0	1	10/05/09 15:41	CFS	5232244
PURGEABLE AROMATICS					**MCL**	**SW8021B**	**Units: ug/kg-dry**	
Benzene	ND			1.3	1	10/08/09 8:11	WLV	5237450
Toluene	ND			1.3	1	10/08/09 8:11	WLV	5237450
Ethylbenzene	ND			1.3	1	10/08/09 8:11	WLV	5237450
Methyl tert-butyl ether	ND			1.3	1	10/08/09 8:11	WLV	5237450
m,p-Xylene	ND			1.3	1	10/08/09 8:11	WLV	5237450
o-Xylene	ND			1.3	1	10/08/09 8:11	WLV	5237450
Xylenes,Total	ND			1.3	1	10/08/09 8:11	WLV	5237450
Total BTEX	ND			1.3	1	10/08/09 8:11	WLV	5237450
Surr: 1,4-Difluorobenzene	98.2		%	70-130	1	10/08/09 8:11	WLV	5237450
Surr: 4-Bromofluorobenzene	106		%	63-145	1	10/08/09 8:11	WLV	5237450

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:49	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S4-15' **Collected:** 10/01/2009 19:00 **SPL Sample ID:** 09100141-08

Site: Maljamar, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Diesel Range Organics (C10-C28)	ND		5.6	1	10/06/09 7:22	NW	5240623
Surr: n-Pentacosane	66.0		% 20-154	1	10/06/09 7:22	NW	5240623

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3550B	10/05/2009 9:43	FAK	1.00

GASOLINE RANGE ORGANICS				**MCL**	**SW8015B**	**Units: mg/kg-dry**	
Gasoline Range Organics	ND		0.11	1	10/08/09 8:39	WLV	5237253
Surr: 1,4-Difluorobenzene	98.6		% 63-142	1	10/08/09 8:39	WLV	5237253
Surr: 4-Bromofluorobenzene	104		% 50-159	1	10/08/09 8:39	WLV	5237253

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:50	XML	1.00

ION CHROMATOGRAPHY				**MCL**	**E300.0 MOD**	**Units: mg/kg-dry**	
Chloride	897		55.6	10	10/07/09 1:04	BDG	5234724
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	10.1		0	1	10/05/09 15:41	CFS	5232243
PURGEABLE AROMATICS				**MCL**	**SW8021B**	**Units: ug/kg-dry**	
Benzene	ND		1.1	1	10/08/09 8:39	WLV	5237451
Toluene	ND		1.1	1	10/08/09 8:39	WLV	5237451
Ethylbenzene	ND		1.1	1	10/08/09 8:39	WLV	5237451
Methyl tert-butyl ether	ND		1.1	1	10/08/09 8:39	WLV	5237451
m,p-Xylene	ND		1.1	1	10/08/09 8:39	WLV	5237451
o-Xylene	ND		1.1	1	10/08/09 8:39	WLV	5237451
Xylenes,Total	ND		1.1	1	10/08/09 8:39	WLV	5237451
Total BTEX	ND		1.1	1	10/08/09 8:39	WLV	5237451
Surr: 1,4-Difluorobenzene	97.6		% 70-130	1	10/08/09 8:39	WLV	5237451
Surr: 4-Bromofluorobenzene	102		% 63-145	1	10/08/09 8:39	WLV	5237451

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5030B	10/07/2009 11:50	XML	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Diesel Range Organics **WorkOrder:** 09100141
Method: SW8015B **Lab Batch ID:** 94364

Method Blank

RunID: HP_V_091006E-5240620 Units: mg/kg
Analysis Date: 10/06/2009 2:15 Analyst: NW
Preparation Date: 10/05/2009 9:43 Prep By: FAK Method: SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	5.0
Surr: n-Pentacosane	85.4	20-154

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-01B	S1-6'
09100141-02B	S1-10'
09100141-03B	S2-6'
09100141-04B	S2-6"
09100141-05B	S3-1'
09100141-06B	S3-3'
09100141-07B	S4-6'
09100141-08B	S4-15'

Laboratory Control Sample (LCS)

RunID: HP_V_091006E-5240621 Units: mg/kg
Analysis Date: 10/06/2009 2:35 Analyst: NW
Preparation Date: 10/05/2009 9:43 Prep By: FAK Method: SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	33.3	29.8	89.4	57	150
Surr: n-Pentacosane	1.66	1.36	82.1	20	154

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100141-08
RunID: HP_V_091006E-5240624 Units: mg/kg-dry
Analysis Date: 10/06/2009 7:42 Analyst: NW
Preparation Date: 10/05/2009 9:43 Prep By: FAK Method: SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	37	30.1	77.8	37	31.3	81.2	4.07	50	21	175
Surr: n-Pentacosane	ND	1.85	1.42	76.7	1.85	1.42	76.9	0.267	30	20	154

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 09100141
Lab Batch ID: R285831

Method Blank

RunID: HP_O_091007C-5237240 Units: mg/kg
Analysis Date: 10/08/2009 0:32 Analyst: WLV
Preparation Date: 10/08/2009 0:32 Prep By: Method: SW5030B

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0 10
Surr: 1,4-Difluorobenzene	100.8	63-142
Surr: 4-Bromofluorobenzene	104.5	50-159

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-01A	S1-6'
09100141-02A	S1-10'
09100141-03A	S2-6'
09100141-04A	S2-6"
09100141-05A	S3-1'
09100141-06A	S3-3'
09100141-07A	S4-6'
09100141-08A	S4-15'

Methanolic Preparation Blank

RunID: HP_O_091007C-5237241 Units: mg/kg
Analysis Date: 10/08/2009 1:01 Analyst: WLV
Preparation Date: 10/08/2009 1:01 Prep By: Method: SW5030B

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	2.5
Surr: 1,4-Difluorobenzene	98.6	63-142
Surr: 4-Bromofluorobenzene	104 7	50-159

Laboratory Control Sample (LCS)

RunID: HP_O_091007C-5237239 Units: mg/kg
Analysis Date: 10/08/2009 0:03 Analyst: WLV
Preparation Date: 10/08/2009 0:03 Prep By: Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	1.03	103	70	130
Surr: 1,4-Difluorobenzene	0.100	0.102	102	63	142
Surr: 4-Bromofluorobenzene	0.100	0.106	106	50	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100141-01
RunID: HP_O_091007C-5237244 Units: mg/kg-dry
Analysis Date: 10/08/2009 3:25 Analyst: WLV
Preparation Date: 10/07/2009 11:33 Prep By: XML Method: SW5030B

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
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(713) 660-0901

Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Gasoline Range Organics **WorkOrder:** 09100141
Method: SW8015B **Lab Batch ID:** R285831

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.24	0.889	71.8	1.24	1.04	84.3	16.0	50	26	147
Surr: 1,4-Difluorobenzene	ND	0.124	0.124	100	0.124	0.123	99.2	1.20	30	63	142
Surr: 4-Bromofluorobenzene	ND	0.124	0.127	103	0.124	0.130	105	2.21	30	50	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
' TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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(713) 660-0901

Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Purgeable Aromatics
Method: SW8021B
WorkOrder: 09100141
Lab Batch ID: R285847

Method Blank

RunID: HP_O_091007E-5237440 Units: ug/kg
Analysis Date: 10/08/2009 0:32 Analyst: WLV
Preparation Date: 10/08/2009 0:32 Prep By: Method: SW5030B

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	2.2	1.0
o-Xylene	ND	1.0
Total BTEX	2.2	1.0
Xylenes,Total	2.2	1.0
Surr: 1,4-Difluorobenzene	98.3	70-130
Surr: 4-Bromofluorobenzene	103.1	63-145

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-01A	S1-6'
09100141-02A	S1-10'
09100141-04A	S2-6"
09100141-05A	S3-1'
09100141-06A	S3-3'
09100141-07A	S4-6'
09100141-08A	S4-15'

Laboratory Control Sample (LCS)

RunID: HP_O_091007E-5237439 Units: ug/kg
Analysis Date: 10/07/2009 23:35 Analyst: WLV
Preparation Date: 10/07/2009 23:35 Prep By: Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	17.1	85.3	70	130
Ethylbenzene	20.0	16.9	84.4	75	122
Methyl tert-butyl ether	20.0	17.7	88.5	74	127
Toluene	20.0	17.4	87.0	75	123
m,p-Xylene	40.0	33.8	84.6	74	122
o-Xylene	20.0	16.6	83.0	70	130
Total BTEX	120.0	101.8	84.81	70	130
Xylenes,Total	60.0	50.4	84.0	70	130
Surr: 1,4-Difluorobenzene	100	95.6	95.6	70	130
Surr: 4-Bromofluorobenzene	100	100	100	63	145

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100141-01
RunID: HP_O_091007E-5237456 Units: ug/kg-dry
Analysis Date: 10/08/2009 2:27 Analyst: WLV
Preparation Date: 10/07/2009 11:33 Prep By: XML Method: SW5030B

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Purgeable Aromatics **WorkOrder:** 09100141
Method: SW8021B **Lab Batch ID:** R285847

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	24.8	20.7	83.8	24.8	21.1	85.1	1.52	31	41	133
Ethylbenzene	ND	24.8	19.7	79.6	24.8	20.2	81.4	2.28	39	31	129
Methyl tert-butyl ether	ND	24.8	20.5	82.8	24.8	21.2	85.8	3.57	25	29	148
Toluene	ND	24.8	20.7	83.5	24.8	21.2	85.6	2.42	25	34	130
m,p-Xylene	ND	49.5	38.2	77.2	49.5	39.4	79.5	2.98	26	35	123
o-Xylene	ND	24.8	19.1	77.2	24.8	19.3	78.0	0.996	35	33	124
Total BTEX	ND	148.5	118.4	79.75	148.5	121.2	81.52	2.195	32	31	133
Xylenes,Total	ND	74.3	57.3	77.2	74.3	58.7	79.0	2.32	35	33	124
Surr: 1,4-Difluorobenzene	ND	124	121	97.8	124	120	96.7	1.07	30	70	130
Surr: 4-Bromofluorobenzene	ND	124	130	105	124	128	103	1.47	30	63	145

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Purgeable Aromatics
Method: SW8021B
WorkOrder: 09100141
Lab Batch ID: R285935

Method Blank

RunID: HP_O_091008A-5239229 Units: ug/kg
Analysis Date: 10/08/2009 18:01 Analyst: WLV
Preparation Date: 10/08/2009 18:01 Prep By: Method: SW5030B

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-03A	S2-6'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Surr: 1,4-Difluorobenzene	98.1	70-130
Surr: 4-Bromofluorobenzene	102.5	63-145

Laboratory Control Sample (LCS)

RunID: HP_O_091008A-5239228 Units: ug/kg
Analysis Date: 10/08/2009 17:03 Analyst: WLV
Preparation Date: 10/08/2009 17:03 Prep By: Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	17.2	85.8	70	130
Methyl tert-butyl ether	20.0	18.4	92.1	74	127
Surr: 1,4-Difluorobenzene	100	97.3	97.3	70	130
Surr: 4-Bromofluorobenzene	100	105	105	63	145

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100331-01
RunID: HP_O_091008A-5239243 Units: ug/kg
Analysis Date: 10/09/2009 12:29 Analyst: WLV
Preparation Date: 10/09/2009 11:17 Prep By: XML Method: SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	14.1	70.6	20	13.8	69.2	1.94	31	41	133
Methyl tert-butyl ether	ND	20	13.7	68.5	20	14.5	72.6	5.73	25	29	148
Surr: 1,4-Difluorobenzene	ND	100	97.5	97.5	100	96.8	96.8	0.775	30	70	130
Surr: 4-Bromofluorobenzene	ND	100	103	103	100	103	103	0.749	30	63	145

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Purgeable Aromatics **WorkOrder:** 09100141
Method: SW8021B **Lab Batch ID:** R286338

Method Blank

RunID: HP_O_091013C-5245005 Units: ug/kg
Analysis Date: 10/13/2009 21:42 Analyst: WLV
Preparation Date: 10/13/2009 21:42 Prep By: Method: SW5030B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-03A	S2-6'

Analyte	Result	Rep Limit
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Total BTEX	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.7	70-130
Surr: 4-Bromofluorobenzene	97.4	63-145

Methanolic Preparation Blank

RunID: HP_O_091013C-5245006 Units: ug/kg
Analysis Date: 10/13/2009 22:11 Analyst: WLV
Preparation Date: 10/13/2009 22:11 Prep By: Method: SW5030B

Analyte	Result	Rep Limit
Ethylbenzene	ND	25
Toluene	ND	25
m,p-Xylene	ND	25
o-Xylene	ND	25
Total BTEX	ND	25
Xylenes,Total	ND	25
Surr: 1,4-Difluorobenzene	97.4	70-130
Surr: 4-Bromofluorobenzene	103.8	63-145

Laboratory Control Sample (LCS)

RunID: HP_O_091013C-5245004 Units: ug/kg
Analysis Date: 10/13/2009 20:45 Analyst: WLV
Preparation Date: 10/13/2009 20:45 Prep By: Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ethylbenzene	20.0	15.9	79.5	75	122
Toluene	20.0	16.4	82.2	75	123
m,p-Xylene	40.0	31.1	77.7	74	122
o-Xylene	20.0	15.2	76.1	70	130
Total BTEX	120	62.3	78.8	70	130
Xylenes,Total	60.0	46.3	77.2	70	130

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Purgeable Aromatics **WorkOrder:** 09100141
Method: SW8021B **Lab Batch ID:** R286338

Laboratory Control Sample (LCS)

RunID: HP_O_091013C-5245004 Units: ug/kg
Analysis Date: 10/13/2009 20:45 Analyst: WLV
Preparation Date: 10/13/2009 20:45 Prep By: Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Surr: 1,4-Difluorobenzene	100	93.6	93.6	70	130
Surr: 4-Bromofluorobenzene	100	101	101	63	145

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: H0910003400
RunID: HP_O_091013C-5245008 Units: ug/kg
Analysis Date: 10/14/2009 0:05 Analyst: WLV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	ND	20	15.6	77.8	20	18.3	91.3	16.0	39	31	129
Toluene	ND	20	16.1	80.4	20	19.1	95.5	17.2	25	34	130
m,p-Xylene	ND	40	30.1	75.2	40	35.6	88.9	16.7	26	35	123
o-Xylene	ND	20	14.9	74.6	20	17.3	86.7	15.0	35	33	124
Total BTEX	ND	120	45.0	77.0	120	52.9	90.7	16.4	32	31	133
Xylenes,Total	ND	60	45.0	75.0	60	52.9	88.2	16.2	35	33	124
Surr: 1,4-Difluorobenzene	ND	100	96.2	96.2	100	99.2	99.2	3.12	30	70	130
Surr: 4-Bromofluorobenzene	ND	100	103	103	100	107	107	4.15	30	63	145

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: PERCENT MOISTURE
Method: D2216
WorkOrder: 09100141
Lab Batch ID: R285537

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-01B	S1-6'
09100141-02B	S1-10'
09100141-03B	S2-6'
09100141-04B	S2-6"
09100141-05B	S3-1'
09100141-06B	S3-3'
09100141-07B	S4-6'
09100141-08B	S4-15'

Sample Duplicate

Original Sample: 09100141-01
RunID: WET_091005I-5232251 Units: wt%
Analysis Date: 10/05/2009 15:41 Analyst: CFS

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	19.2	19.23	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Ion Chromatography **WorkOrder:** 09100141
Method: E300.0 MOD **Lab Batch ID:** R285673

Method Blank

RunID: IC1_091006B-5234707 Units: mg/kg
Analysis Date: 10/06/2009 19:29 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-02B	S1-10'
09100141-05B	S3-1'
09100141-06B	S3-3'
09100141-07B	S4-6'
09100141-08B	S4-15'

Laboratory Control Sample (LCS)

RunID: IC1_091006B-5234708 Units: mg/kg
Analysis Date: 10/06/2009 19:46 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	104.5	104.5	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100141-02
RunID: IC1_091006B-5234730 Units: mg/kg-dry
Analysis Date: 10/07/2009 2:50 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	126.3	119.6	288.0	135.2 *	119.6	284.3	132.1 *	1.296	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conoco Phillips

COP Elvis Battery

Analysis: Ion Chromatography **WorkOrder:** 09100141
Method: E300.0 MOD **Lab Batch ID:** R285673A

Method Blank

RunID: IC1_091006B-5234707 Units: mg/kg
Analysis Date: 10/06/2009 19:29 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09100141-01B	S1-6'
09100141-03B	S2-6'
09100141-04B	S2-6"

Laboratory Control Sample (LCS)

RunID: IC1_091006B-5234708 Units: mg/kg
Analysis Date: 10/06/2009 19:46 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	100.0	104.5	104.5	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09100141-01
RunID: IC1_091006B-5234728 Units: mg/kg-dry
Analysis Date: 10/07/2009 2:15 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	123.8	141.3	109.6	123.8	146.5	113.8	3.622	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	**09100141**	Received By:	**RE**
Date and Time Received:	**10/3/2009 9:30:00 AM**	Carrier name:	**Fedex-Priority**
Temperature:	**3.4°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?** 1.Received 1-set of Trip Blank not written on chain. 2. ID S3-3' on chain vs S3-6' on container label	Yes ☐	No ☑	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: 1.Logged in Trip Blanks per PM. Logged in using ID on chain until client can be notified.

Client Instructions:

09100441

Chain of Custody Record

09100441 R

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number: 09100044

Attention: C Durrett

Phone: 432 686 7081 | email:

Address: 9 10 N Big Spring

City: Midland | State: TX | Zip Code: 79705

Project Name: COP Maljamar ELVIS Battery

P.O. Number: 2640044CO

Sampled By: signature / print

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	Requested Analysis 8021-BTEX/8015-GRO	Requested Analysis 8015-DRO/Old
S1 - 6'	11/4/09	1130		X		X	5	1	2	X	X
S1 - 60'		1130									
S2 - 6' Ft		145									
S2 - 6" in		145									
S3 - 1'		445									
S3 - 3'		446									
S4 - 6'		7:00pm									
S4 - 15'	11/4/09	7:00pm		X		X	5	1	2	X	X

RUSH

Turnarcund Time Requirements
24 hr( ) 48 hr( )
72 hr( ) 5 wday( )
10 wday - Standard( )

Remarks:

Intact? Y or N
Temperature: 3.1 C

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 4oz Glass

Preservative Types: 1: NONE 2. HNO3 3. HCL 4. H2SO4

Relinquished by Sampler:	Date	Time	Received by:
JA Deans	2 oct 09	12:00	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL, Inc
	10/3/09	930	

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