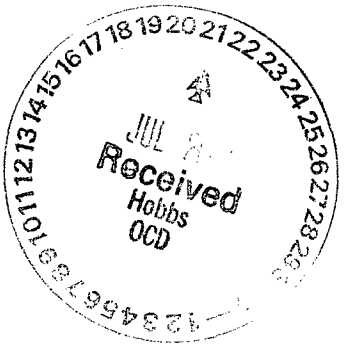
Larson & Associates, Inc.
Environmental Consultants

July 20, 2006



1 RP- 747

VIA EMAIL: larry.johnson@state.nm.us
VIA CERTIFIED MAIL

Mr. Larry Johnson
Environmental Engineer
State of New Mexico
Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

Re: Crude Oil Leak Investigation Report and Remediation Work Plan, Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery, Unit Letter C (NE/4, NW/4), Section 23, Township 22 South, Range 37 East, Lea County, New Mexico

Dear Mr. Johnson:

This report is submitted to the State of New Mexico, Oil Conservation Division ("OCD") on behalf of Chesapeake Operating, Inc. ("Chesapeake") by Larson and Associates, Inc. ("LA"), its consultant, and presents the laboratory analysis of soil samples that were collected from a crude oil leak at the Ollie J. Boyd Tank Battery ("Site") located in unit letter C (NE/4, NW/4), Section 23, Township 22 South, Range 37 East, Lea County, New Mexico. On May 2, 2006, Chesapeake personnel discovered a pinhole leak in a buried transfer line between the separator and tanks that resulted in a release of approximately 5 to 10 barrels ("bbl") of crude oil. The leak was repaired and the OCD and landowner, Mr. Irvin Boyd, were notified. Form C-141 was submitted to the OCD on May 10, 2006, and proposed soil sampling to investigate the extent of release. The latitude and longitude for the Site are North 32°, 22', 51.1" and West 103°, 08', 16.9", respectively. Figure 1 presents a location and topographic map. Appendix A presents Form C-141. Contact information for Chesapeake is as follows:

Mr. Harlan Brown
Safety & Environmental Representative
Chesapeake Energy Corporation
6100 N. Western Avenue
Oklahoma City, Oklahoma 73118
(405) 767-4446
hbrown@chkenergy.com

Setting

The Site is located about four (4) miles southeast of Eunice, New Mexico, at an elevation approximately 3,330 feet above mean sea level ("MSL"). The topography slopes gently east and southeast toward Monument Draw, located about 1.3-miles east of the Site. Monument Draw flows southeast and is the nearest surface water feature. The nearest residence is located about 1-mile southeast of the Site.

No wells are located within 1,000 horizontal feet of the Site and ground water may occur between about 55 and 81 feet below ground surface ("bgs"), based on information from the New

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

July 25, 2006

Brad Blevins bblevins@chkenergy.com
Chesapeake Energy
W. Bender Blvd.
Hobbs, NM 88240

Re: OCD Site Remediation No. 1RP-747
Remediation Closure: Chesapeake O.J. Boyd Btry.
Site Reference: UL- C, Sec. 23 T-22S R-37E
Initial C-141 Spill Date: 05-02-06
Closure Report Date: 07-27-06

Dear Mr. Blevins,

The referenced **closure report** submitted to the New Mexico Oil Conservation Division (NMOCD) by Larson & Associates, Inc as agent for Chesapeake Energy is **hereby approved.** Based on the information provided no further action is required at this time.

Please be advised that NMOCD approval of this plan does not relieve Chesapeake Energy of responsibility should remaining contaminants pose a future threat to ground water, surface water, human health or the environment. Additionally, NMOCD approval does not relieve Chesapeake Energy of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance, please call me at (505) 393-6161, x111 or email lwjohnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

Cc:
Chris Williams - District I Supervisor
Patricia Caperton - District 1 Environmental Tech

Mexico State Engineer. However, shale was encountered during a previous investigation at approximately 41 feet bgs and ground water was not observed above the shale. Figure 1 presents wells and depth to ground water within one (1) mile of the Site.

Recommended remediation action levels ("RRAL") were calculated using criteria published by the OCD ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"), as follows:

Ranking Criteria	Result	Ranking Score
Depth-to-Groundwater	50 – 99 feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
	Total Score:	**10**

The following RRAL were calculated based on the total ranking score (10):

Benzene: **10 mg/Kg**
BTEX: **50 mg/Kg**
TPH: **1,000 mg/Kg**

Investigation Results

On May 24, 2006, LA personnel used a Terraprobe® direct-push sampler to collect soil samples at nine (9) locations (HA-1 through HA-9). The Terraprobe® is an all-terrain direct-push unit that uses a 1.75-inch x 4-foot long stainless steel core barrel to collect a soil core sample. The core barrel was pushed to approximately 4 feet bgs at each location and four (4) samples (i.e., 0 to 1, 1 to 2, 2 to 3 and 3 4 feet) were collected from each core for laboratory and headspace analysis. The core barrel was equipped with dedicated polyethylene liners to prevent sample cross-contamination. Figure 2 presents a Site drawing showing the approximate limits of the spill and the boring locations. Figure 3 presents a detailed drawing.

The laboratory samples were placed in 4-ounce glass sample jars filled to zero headspace, labeled, chilled in an ice chest and delivered under chain-of-custody control to Environmental Lab of Texas, Inc., located in Odessa, Texas. The headspace samples were collected in 8-ounce glass sample jars that were partially filled and the opening sealed with a layer of aluminum foil before replacing the cap. A RAE Instruments Model 2000 photoionization detector ("PID"), calibrated to 100 parts per million ("ppm") isobutylene, was used to measure the concentration of organic vapors in the headspace samples after the samples warmed to ambient temperature. The borings were plugged with bentonite. Table 1 presents a summary of the headspace readings.

Referring to Table 1, all samples exhibited headspace readings greater than 100 ppm, therefore, the laboratory analyzed all samples for benzene, toluene, ethyl benzene and xylene ("BTEX") using EPA method SW-846-8021B. Benzene exceeded the RRAL of 10 milligrams per kilogram ("mg/Kg") in sample HA-1, 0 to 1 feet (39.2 mg/Kg). The following samples reported BTEX above the RRAL of 50 mg/Kg:

Location	Sample (Feet BGS)	BTEX (mg/Kg)
HA-1	0 to 1	650.6

HA-2	0 to 1	108.7
	1 to 2	107.85
	2 to 3	124.13
	3 to 4	166.43
HA-4	0 to 1	216.01
HA-5	0 to 1	250.72
HA-6	0 to 1	235.33
HA-7	0 to 1	291.21
HA-8	0 to 1	481.07
HA-9	0 to 1	78.6

ELTI analyzed all samples for total petroleum hydrocarbons ("TPH") using EPA method SW-846-8015, for gasoline range organics ("GRO") and diesel range organics ("DRO"), and chloride by EPA method 300. The following samples reported TPH above the RRAL:

Location	**Sample (Feet BGS)**	**TPH C6 to C35 (mg/Kg)**
HA-1	0 to 1	21,370
	1 to 2	1,049.7
HA-2	0 to 1	12,370
	1 to 2	12,700
	2 to 3	10,978
	3 to 4	10,769
HA-3	2 to 3	1,038.6
HA-4	0 to 1	10,456
	3 to 4	1,040
HA-5	0 to 1	30,450
HA-6	0 to 1	10,311
HA-7	0 to 1	25,340
	2 to 3	1,271.5
HA-8	0 to 1	24,300
HA-9	0 to 1	3,928

Chloride ranged from 17.9 mg/Kg (HA-8, 1 to 2 feet) to 683 mg/Kg (HA-9, 2 to 3 feet). Table 1 presents a complete summary of the laboratory analysis. Appendix B presents the laboratory reports. Appendix C presents photographs.

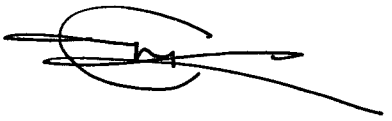
Remediation Work Plan

Chesapeake proposes to excavate soil to reduce the concentrations of BTEX and TPH below the RRAL across the entire spill area. Soil will be excavated to approximately 1-foot bgs at sample locations HA-5, HA-6, HA-8 and HA-9. Soil will be excavated to approximately 2 feet bgs at location HA-1. Soil will be excavated to approximately 3 feet bgs at locations HA-3 and HA-7 and soil will be excavated to greater than 4 feet bgs at locations HA-2 and HA-4. The soil will be hauled to a commercial surface waste management facility (landfarm) and the excavation will be filled with clean soil following OCD approval. Soil samples will be collected from the

sides and bottom of the excavation and analyzed by the laboratory for BTEX and TPH. Additional soil will be removed from the excavation if BTEX and TPH concentrations continue to exceed the RRAL. The OCD shall be provided at least 48-hours notice prior to commencing remediation and a final report will be submitted to the OCD after the remediation has been completed. Chesapeake requests OCD approval of the remediation work plan and authorization to proceed. Please call Mr. Harlan Brown at (405) 767-4446 or email hbrown@chkenergy.com, if you have questions. I may be reached with questions at (432) 687-0901 or email mark@laenvironmental.com.

Sincerely,

Larson and Associates, Inc.



Mark J. Larson, P.G., C.P.G., C.G.W.P.
Senior Project Manager/President

Enclosures

cc: Harlan Brown/Chesapeake
Jace Marshall/Chesapeake
Paul Hagemeier/Chesapeake
Brad Blevins/Chesapeake
Chris Williams/OCD – District 1

TABLES

Table 1

Summary of Headspace and Laboratory Analyses of Soil Samples from Direct-Push Soil Borings

Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery

Unit Letter C (NE/4, NW/4), Section 23, Township 22 South, Range 37 East

Lea County, New Mexico

Sample Location	Sample Depth (Feet BGS)	Sample Date	PID (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO >C12-C28 (mg/kg)	DRO >C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	Chloride (mg/kg)
RRAL:				**10**	**50**				**1,000**	
HA-1	0 - 1	05/24/2006	> 4,000	39.2	650.6	6,600	12,800	1,970	21,370	119
	1 - 2	05/24/2006	>4,000	0.423	38.33	314	673	62.7	1049.7	142
	2 - 3	05/24/2006	1,991	<0.025	0.7628	35.7	125	<10	160.7	78.5
	3 - 4	05/24/2006	1,725	0.0208	3.243	130	294	<10	424	96.8
HA-2	0 - 1	05/24/2006	> 4,000	0.297	108.7	3,700	7,630	1,040	12,370	248
	1 - 2	05/24/2006	> 4,000	0.218	107.85	3,640	7,920	1,140	12,700	90.4
	2 - 3	05/24/2006	> 4,000	0.406	124.13	3,270	6,750	958	10,978	179
	3 - 4	05/24/2006	> 4,000	0.325	166.43	3,380	6,480	909	10,769	160
HA-3	0 - 1	05/24/2006	> 4,000	0.0154	6.46	134	647	74.6	855.6	63.3
	1 - 2	05/24/2006	3,548	<0.025	1.337	30.7	53.8	<10	84.5	54.3
	2 - 3	05/24/2006	2,042	<0.025	0.3852	313	665	60.6	1,038.6	49.2
	3 - 4	05/24/2006	1,450	<0.025	0.0492	9.62	36.4	<10	46.02	46.6
HA-4	0 - 1	05/24/2006	> 4,000	6.31	216.01	4,280	5,510	666	10,456	46
	1 - 2	05/24/2006	> 4,000	0.0482	6.85	112	216	10.5	338.5	27
	2 - 3	05/24/2006	950	<0.025	0.3855	29.7	122	<10	151.7	32.1
	3 - 4	05/24/2006	215	<0.025	0.0387	524	516	<10	1,040	35.6
HA-5	0 - 1	05/25/2006	> 4,000	1.62	250.72	6,820	21,000	2,630	30,450	19.8
	1 - 2	05/25/2006	> 4,000	<0.025	3.448	22.7	40.4	<10	63.1	33
	2 - 3	05/25/2006	3,674	<0.025	1.404	5.12	7.73	<10	12.85	47.7
	3 - 4	05/25/2006	2,708	<0.025	2.525	133	429	27.2	589.2	86.4
HA-6	0 - 1	05/25/2006	> 4,000	5.53	235.33	3470	5870	971	10,311	95.2
	1 - 2	05/25/2006	1,558	<0.025	0.902	23.6	144	10.6	178.2	197

Table 1

Summary of Headspace and Laboratory Analyses of Soil Samples from Direct-Push Soil Borings

Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery

Unit Letter C (NE/4, NW/4), Section 23, Township 22 South, Range 37 East

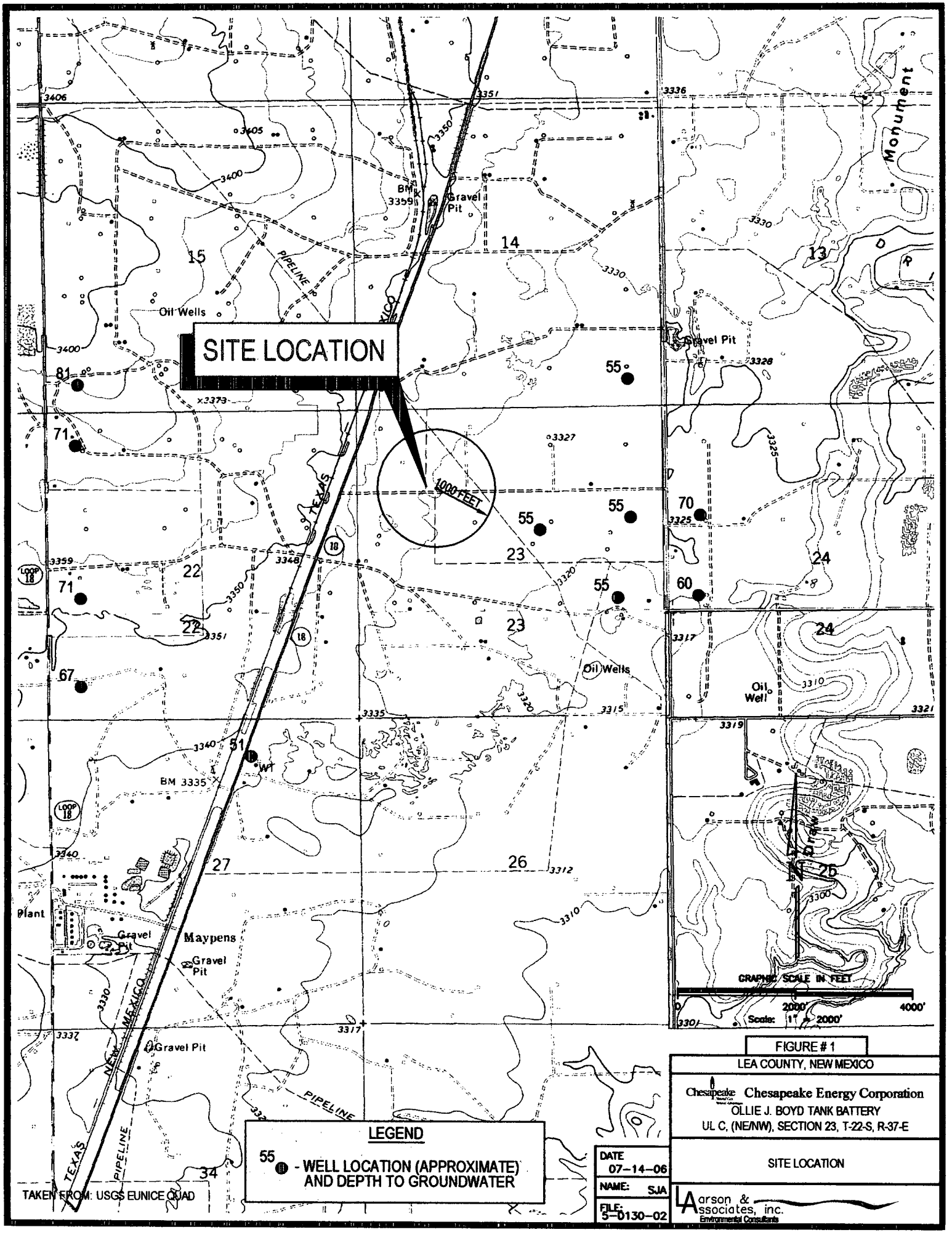
Lea County, New Mexico

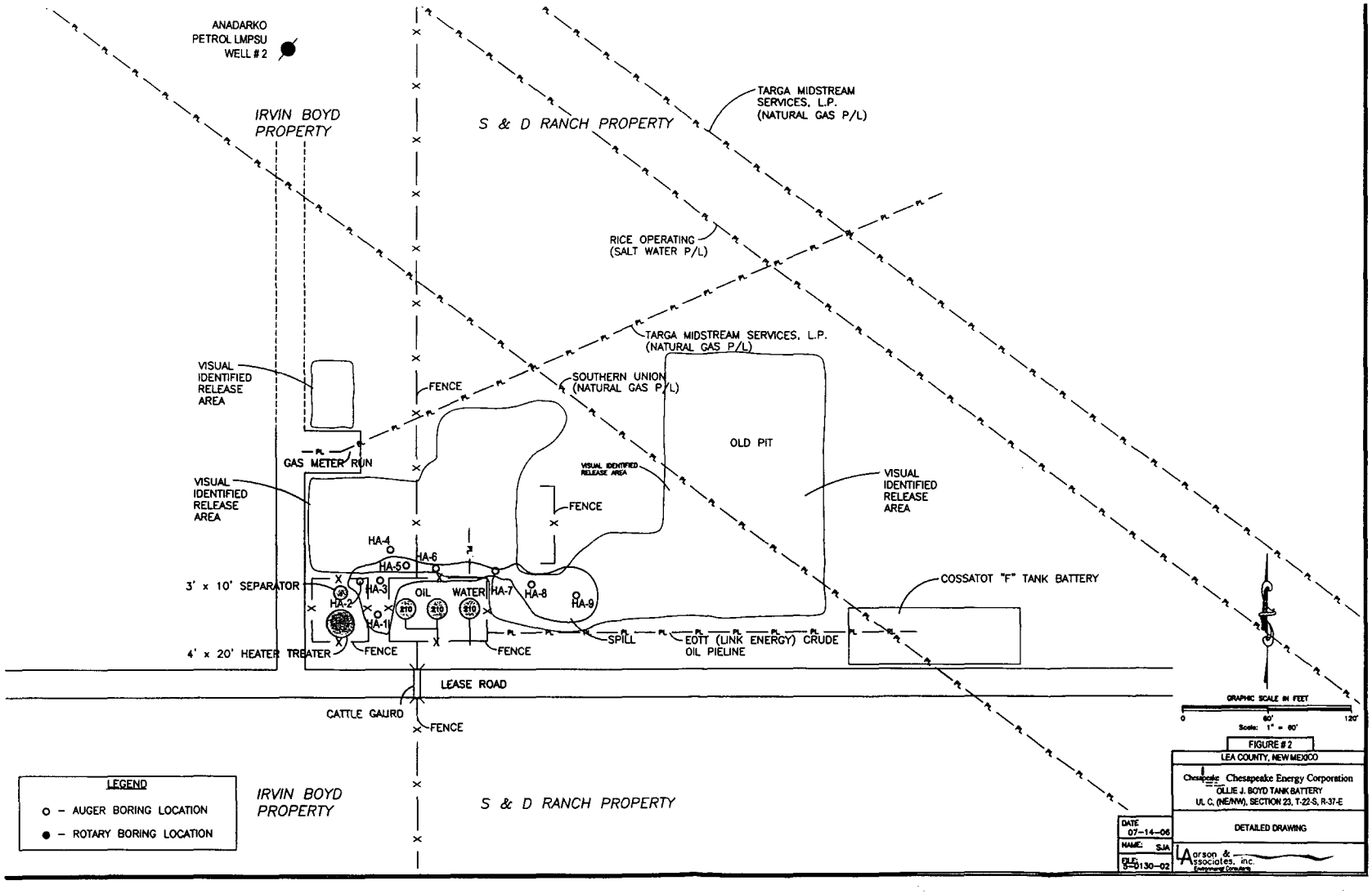
Sample Location	Sample Depth (Feet BGS)	Sample Date	PID (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO >C12-C28 (mg/kg)	DRO >C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	Chloride (mg/kg)
RRAL:				**10**	**50**				**1,000**	
HA-6	2 - 3	05/25/2006	226	<0.025	<0.125	6.7	48.4	<10	55.1	140
	3 - 4	05/25/2006	689	<0.025	<0.125	<10	9.06	<10	9.06	107
HA-7	0 - 1	05/25/2006	> 4,000	2.71	291.21	6,300	16,800	2,240	25,340	23.1
	1 - 2	05/25/2006	860	<0.025	1.198	41.7	256	6.73	304.43	26.3
	2 - 3	05/25/2006	2,953	<0.025	1.0137	138	1,050	83.5	1,271.5	27.9
	3 - 4	05/25/2006	890	<0.025	0.444	71.3	636	34.8	742.1	27.3
HA-8	0 - 1	05/25/2006	> 4,000	7.57	481.07	9,380	13,600	1,320	24,300	26.7
	1 - 2	05/25/2006	2,448	<0.05	1.001	27.3	106	<10	133.3	17.9
	2 - 3	05/25/2006	642	<0.025	0.0832	6.76	50.5	<10	57.26	27.5
	3 - 4	05/25/2006	490	<0.025	0.0463	13.4	94.4	7.61	115.41	35.3
HA-9	0 - 1	05/25/2006	> 4,000	0.9	78.6	1,440	2,300	188	3,928	73.4
	1 - 2	05/25/2006	498	<0.025	<0.125	<10	31.1	<10	31.1	138
	2 - 3	05/25/2006	207	<0.025	0.0907	11.9	65.8	<10	77.7	423
	3 - 4	05/25/2006	102	<0.025	<0.125	<10	<10	<10	<30	683

Notes: Analysis performed by Environmental Lab of Texas, I. Ltd., Odessa, Texas

1. BGS: Sample depth in feet below ground surface
2. TPH: Total petroleum hydrocarbons (Sum of C6 - C35)
3. mg/kg: Milligrams per kilogram
4. <: Below method detection limit
5. PID: Photoionization detector
6. ppm: Parts per million
7. ---: No data available
8. >: Over instrument detection limit

FIGURES


SITE LOCATION
1000 FEET
Oil Wells
Gravel Pit
BM 3359
BM 3335
Maypens
Plant
Oil Well
Monument Draw
PIPELINE
TEXAS
NEW MEXICO
LOOP 18
GRAPHIC SCALE IN FEET
0
2000'
4000'
Scale: 1" = 2000'
LEGEND
55 - WELL LOCATION (APPROXIMATE) AND DEPTH TO GROUNDWATER
TAKEN FROM: USGS EUNICE QUAD
FIGURE # 1
LEA COUNTY, NEW MEXICO
Chesapeake Energy Corporation
OLLIE J. BOYD TANK BATTERY
UL C, (NE/NW), SECTION 23, T-22-S, R-37-E
SITE LOCATION
DATE 07-14-06
NAME: SJA
FILE: 5-0130-02
Larson & Associates, inc.
Environmental Consultants


ANADARKO
PETROL LMPSU
WELL # 2
IRVIN BOYD
PROPERTY
S & D RANCH PROPERTY
TARGA MIDSTREAM
SERVICES, L.P.
(NATURAL GAS P/L)
RICE OPERATING
(SALT WATER P/L)
TARGA MIDSTREAM SERVICES, L.P.
(NATURAL GAS P/L)
SOUTHERN UNION
(NATURAL GAS P/L)
VISUAL
IDENTIFIED
RELEASE
AREA
FENCE
GAS METER RUN
OLD PIT
VISUAL IDENTIFIED
RELEASE AREA
VISUAL
IDENTIFIED
RELEASE
AREA
FENCE
HA-4
HA-5
HA-6
3' x 10' SEPARATOR
HA-3
OIL
WATER
HA-7
HA-8
HA-9
HA-2
HA-1
COSSATOT "F" TANK BATTERY
4' x 20' HEATER TREATER
FENCE
FENCE
SPILL
EOTT (LINK ENERGY) CRUDE
OIL PIELINE
LEASE ROAD
CATTLE GAURD
FENCE
LEGEND
o - AUGER BORING LOCATION
● - ROTARY BORING LOCATION
IRVIN BOYD
PROPERTY
S & D RANCH PROPERTY
GRAPHIC SCALE IN FEET
0
60'
120'
Scale: 1" = 60'
FIGURE # 2
LEA COUNTY, NEW MEXICO
Chesapeake Energy Corporation
OLLIE J. BOYD TANK BATTERY
UL C, (NE/NW), SECTION 23, T-22-S, R-37-E
DETAILED DRAWING
DATE
07-14-06
NAME: SJA
FILE:
C-0130-02
Larson & Associates, inc.

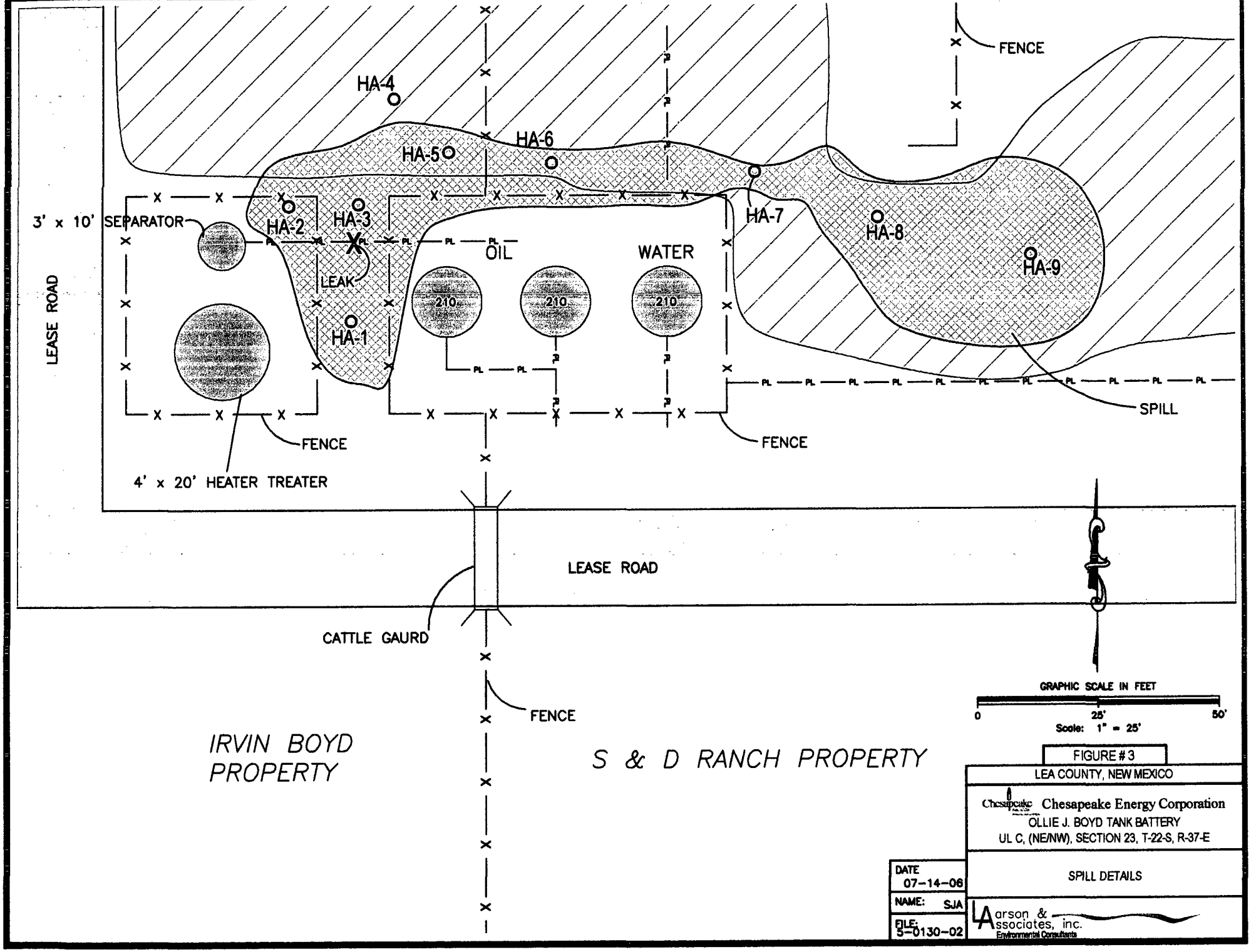


FIGURE # 3

LEA COUNTY, NEW MEXICO

Chesapeake Energy Corporation

OLLIE J. BOYD TANK BATTERY

UL C, (NE/NW), SECTION 23, T-22-S, R-37-E

SPILL DETAILS

DATE	07-14-06
NAME:	SJA
FILE:	5-0130-02

Larson & Associates, inc.
Environmental Consultants

APPENDIX A

Form C-141

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: Chesapeake Operating, Inc.	Contact: Brad Blevins, EH&S Representative
Address: 5014 W. Carlsbad Highway, Hobbs, NM	Telephone No.: (505) 391-1462
Facility Name: Ollie J. Boyd Tank Battery	Facility Type: 2" crude oil line

Surface Owner: Irvin Boyd	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: Lea
C	23	22S	37E					

Latitude: North 32° 22' 51.1" **Longitude:** West 103° 08' 16.9"

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 5 – 10 bbl	Volume Recovered: 0 bbl
Source of Release: Hole in 2" line from separator to tank	Date and Hour of Occurrence: 05/02/2006, 13:00 hrs	Date and Hour of Discovery: 05/02/2006, 13:00
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required	If YES, To Whom? Leak reported to operator by Mark Larson and to OCD by operator representative (Brad Blevins)	
By Whom? Brad Blevins	Date and Hour 05/03/06 (hour unknown)	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Hole developed in 2" line from separator to tanks. Leak was isolated and line was replaced on 05/02/06. Spill will be investigated concurrent with a work plan that was submitted to OCD for the site on February 25, 2006 and approved on March 24, 2006 (see attached pages). A remediation plan will be submitted following leak assessment.

Describe Area Affected and Cleanup Action Taken.*: Release affected area approximately 10' x 125' on the north and east side of tank battery. Release was isolated and line was replaced.

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: Mark J. Larson, Larson and Associates, Inc.	Approved by District Supervisor:	
Title: Agent/Consultant	Approval Date:	Expiration Date:
E-mail Address: mark@laenvironmental.com	Conditions of Approval:	Attached ☐
Date: May 10, 2006 Phone: (432) 687-0901		

* Attach Additional Sheets If Necessary

APPENDIX B

Laboratory Reports

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Chesapeake/ Ollie J. Boyd

Project Number: 5-0130

Location: None Given

Lab Order Number: 6E25029

Report Date: 06/02/06

Larson & Associates, Inc.	Project: Chesapeake/ Ollie J. Boyd	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 5-0130	**Reported:**
Midland TX, 79710	Project Manager: Mark Larson	06/02/06 17:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 0-1'	6E25029-01	Soil	05/24/06 08:12	05/25/06 16:00
HA-1 1-2'	6E25029-02	Soil	05/24/06 08:22	05/25/06 16:00
HA-1 2-3'	6E25029-03	Soil	05/24/06 08:28	05/25/06 16:00
HA-1 3-4'	6E25029-04	Soil	05/24/06 08:35	05/25/06 16:00
HA-2 0-1'	6E25029-05	Soil	05/24/06 08:44	05/25/06 16:00
HA-2 1-2'	6E25029-06	Soil	05/24/06 08:51	05/25/06 16:00
HA-2 2-3'	6E25029-07	Soil	05/24/06 08:59	05/25/06 16:00
HA-2 3-4'	6E25029-08	Soil	05/24/06 09:04	05/25/06 16:00
HA-3 0-1'	6E25029-09	Soil	05/24/06 09:20	05/25/06 16:00
HA-3 1-2'	6E25029-10	Soil	05/24/06 09:26	05/25/06 16:00
HA-3 2-3'	6E25029-11	Soil	05/24/06 09:35	05/25/06 16:00
HA-3 3-4'	6E25029-12	Soil	05/24/06 09:43	05/25/06 16:00
HA-4 0-1'	6E25029-13	Soil	05/24/06 12:45	05/25/06 16:00
HA-4 1-2'	6E25029-14	Soil	05/24/06 12:51	05/25/06 16:00
HA-4 2-3'	6E25029-15	Soil	05/24/06 12:55	05/25/06 16:00
HA-4 3-4'	6E25029-16	Soil	05/24/06 13:00	05/25/06 16:00
HA-5 0-1'	6E25029-17	Soil	05/25/06 08:00	05/25/06 16:00
HA-5 1-2'	6E25029-18	Soil	05/25/06 08:05	05/25/06 16:00
HA-5 2-3'	6E25029-19	Soil	05/25/06 08:11	05/25/06 16:00
HA-5 3-4'	6E25029-20	Soil	05/25/06 08:17	05/25/06 16:00
HA-6 0-1'	6E25029-21	Soil	05/25/06 08:32	05/25/06 16:00
HA-6 1-2'	6E25029-22	Soil	05/25/06 08:38	05/25/06 16:00
HA-6 2-3'	6E25029-23	Soil	05/25/06 08:46	05/25/06 16:00
HA-6 3-4'	6E25029-24	Soil	05/25/06 08:51	05/25/06 16:00
HA-7 0-1'	6E25029-25	Soil	05/25/06 09:01	05/25/06 16:00
HA-7 1-2'	6E25029-26	Soil	05/25/06 09:06	05/25/06 16:00
HA-7 2-3'	6E25029-27	Soil	05/25/06 09:12	05/25/06 16:00
HA-7 3-4'	6E25029-28	Soil	05/25/06 09:17	05/25/06 16:00
HA-8 0-1'	6E25029-29	Soil	05/25/06 09:25	05/25/06 16:00
HA-8 1-2'	6E25029-30	Soil	05/25/06 09:32	05/25/06 16:00
HA-8 2-3'	6E25029-31	Soil	05/25/06 09:37	05/25/06 16:00
HA-8 3-4'	6E25029-32	Soil	05/25/06 09:41	05/25/06 16:00
HA-9 0-1'	6E25029-33	Soil	05/25/06 09:51	05/25/06 16:00
HA-9 1-2'	6E25029-34	Soil	05/25/06 09:55	05/25/06 16:00

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Project: Chesapeake/ Ollie J. Boyd
Project Number: 5-0130
Project Manager: Mark Larson

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Reported:
06/02/06 17:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-9 2-3'	6E25029-35	Soil	05/25/06 10:02	05/25/06 16:00
HA-9 3-4'	6E25029-36	Soil	05/25/06 10:08	05/25/06 16:00

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 0-1' (6E25029-01) Soil									
Benzene	**39.2**	1.00	mg/kg dry	1000	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**195**	1.00	"	"	"	"	"	"	
Ethylbenzene	**147**	1.00	"	"	"	"	"	"	
Xylene (p/m)	**186**	1.00	"	"	"	"	"	"	
Xylene (o)	**83.4**	1.00	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*178 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*127 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**6600**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**12800**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1970**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**21400**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*50.2 %*	*70-130*		"	"	"	"	*S-06*
HA-1 1-2' (6E25029-02) Soil									
Benzene	**0.423**	0.0500	mg/kg dry	50	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**6.01**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**9.98**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**15.3**	0.0500	"	"	"	"	"	"	
Xylene (o)	**6.62**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*169 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*190 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**314**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**673**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**62.7**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**1050**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.6 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 2-3' (6E25029-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**0.0638**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.211**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.343**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.145**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**35.7**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**125**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**161**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*105 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
HA-1 3-4' (6E25029-04) Soil									
Benzene	**J [0.0208]**	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	J
Toluene	**0.408**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.831**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.27**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.713**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**130**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**294**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**424**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*113 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-2 0-1' (6E25029-05) Soil									
Benzene	**0.297**	0.250	mg/kg dry	250	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**10.1**	0.250	"	"	"	"	"	"	
Ethylbenzene	**23.0**	0.250	"	"	"	"	"	"	
Xylene (p/m)	**51.8**	0.250	"	"	"	"	"	"	
Xylene (o)	**23.5**	0.250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*146 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*159 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3700**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**7630**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1040**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**12400**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*32.2 %*	*70-130*		"	"	"	"	*S-06*
HA-2 1-2' (6E25029-06) Soil									
Benzene	**0.218**	0.200	mg/kg dry	200	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**7.73**	0.200	"	"	"	"	"	"	
Ethylbenzene	**24.1**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**51.2**	0.200	"	"	"	"	"	"	
Xylene (o)	**24.6**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*138 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*172 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3640**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**7920**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1140**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**12700**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*73.2 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*57.8 %*	*70-130*		"	"	"	"	*S-06*

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-2 2-3' (6E25029-07) Soil									
Benzene	**0.406**	0.100	mg/kg dry	100	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**9.92**	0.100	"	"	"	"	"	"	
Ethylbenzene	**29.2**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**53.4**	0.100	"	"	"	"	"	"	
Xylene (o)	**31.2**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*212 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*158 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3270**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**6750**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**958**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**11000**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*64.0 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*48.8 %*	*70-130*		"	"	"	"	*S-06*
HA-2 3-4' (6E25029-08) Soil									
Benzene	**J [0.325]**	0.500	mg/kg dry	500	EE63104	05/31/06	06/01/06	EPA 8021B	J
Toluene	**11.4**	0.500	"	"	"	"	"	"	
Ethylbenzene	**38.8**	0.500	"	"	"	"	"	"	
Xylene (p/m)	**81.8**	0.500	"	"	"	"	"	"	
Xylene (o)	**34.1**	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*136 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*156 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3380**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**6480**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**909**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**10800**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*67.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*53.4 %*	*70-130*		"	"	"	"	*S-06*

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-3 0-1' (6E25029-09) Soil									
Benzene	**J [0.0154]**	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	J
Toluene	**0.589**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.56**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.88**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.42**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**134**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**647**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**74.6**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**856**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*53.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*53.2 %*	*70-130*		"	"	"	"	*S-06*
HA-3 1-2' (6E25029-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**0.0966**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.359**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.573**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.308**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**30.7**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**53.8**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**84.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*116 %*	*70-130*		"	"	"	"	

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Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-3 2-3' (6E25029-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**J [0.0246]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.101**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.183**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0766**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**313**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**665**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**60.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**1040**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.8 %*	*70-130*		"	"	"	"	
HA-3 3-4' (6E25029-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0175]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0317**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [9.62]**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	J
Carbon Ranges C12-C28	**36.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**36.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*124 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-4 0-1' (6E25029-13) Soil									
Benzene	**6.31**	0.500	mg/kg dry	500	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**60.5**	0.500	"	"	"	"	"	"	
Ethylbenzene	**20.9**	0.500	"	"	"	"	"	"	
Xylene (p/m)	**90.4**	0.500	"	"	"	"	"	"	
Xylene (o)	**37.9**	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*167 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*148 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**4280**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**5510**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**666**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**10400**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*63.4 %*	*70-130*		"	"	"	"	*S-06*
HA-4 1-2' (6E25029-14) Soil									
Benzene	**0.0482**	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**0.882**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.38**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**3.13**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.41**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*130 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**112**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**216**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**10.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**338**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*116 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-4 2-3' (6E25029-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**0.0539**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0886**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.168**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0750**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**29.7**	10.0	mg/kg dry	1	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**122**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**152**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*108 %*	*70-130*		"	"	"	"	
HA-4 3-4' (6E25029-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE63104	05/31/06	06/01/06	EPA 8021B	
Toluene	**J [0.0168]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**J [0.0219]**	0.0250	"	"	"	"	"	"	J
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**524**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**516**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**1040**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*93.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.4 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 0-1' (6E25029-17) Soil									
Benzene	**1.62**	0.500	mg/kg dry	500	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**45.3**	0.500	"	"	"	"	"	"	
Ethylbenzene	**66.7**	0.500	"	"	"	"	"	"	
Xylene (p/m)	**95.5**	0.500	"	"	"	"	"	"	
Xylene (o)	**41.6**	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*128 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*146 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**6820**	20.0	mg/kg dry	2	EE62615	05/26/06	05/30/06	EPA 8015M	
Carbon Ranges C12-C28	**21000**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**2630**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**30400**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*57.4 %*	*70-130*		"	"	"	"	*S-06*
HA-5 1-2' (6E25029-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**0.267**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.945**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.46**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.776**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**22.7**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**40.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**63.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 2-3' (6E25029-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**0.117**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.393**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.565**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.329**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [5.12]**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	J
Carbon Ranges C12-C28	**J [7.73]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.8 %*	*70-130*		"	"	"	"	
HA-5 3-4' (6E25029-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**0.149**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.635**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.16**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.581**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**133**	10.0	mg/kg dry	1	EE62615	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**429**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**27.2**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**589**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*77.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*77.2 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 0-1' (6E25029-21) Soil									
Benzene	**5.53**	0.250	mg/kg dry	250	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**57.5**	0.250	"	"	"	"	"	"	
Ethylbenzene	**57.1**	0.250	"	"	"	"	"	"	
Xylene (p/m)	**78.7**	0.250	"	"	"	"	"	"	
Xylene (o)	**36.5**	0.250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*189 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*173 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**3470**	20.0	mg/kg dry	2	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**5870**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**971**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**10300**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.8 %*	*70-130*		"	"	"	"	
HA-6 1-2' (6E25029-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**0.133**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.233**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.375**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.161**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**23.6**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**144**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**10.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**178**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 2-3' (6E25029-23) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [6.70]**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	J
Carbon Ranges C12-C28	**48.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**48.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.4 %*	*70-130*		"	"	"	"	
HA-6 3-4' (6E25029-24) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**J [9.06]**	10.0	"	"	"	"	"	"	J
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.0 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-7 0-1' (6E25029-25) Soil									
Benzene	**2.71**	0.500	mg/kg dry	500	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**57.3**	0.500	"	"	"	"	"	"	
Ethylbenzene	**75.5**	0.500	"	"	"	"	"	"	
Xylene (p/m)	**106**	0.500	"	"	"	"	"	"	
Xylene (o)	**49.7**	0.500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*126 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**6300**	20.0	mg/kg dry	2	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**16800**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**2240**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**25300**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.2 %*	*70-130*		"	"	"	"	
HA-7 1-2' (6E25029-26) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/02/06	EPA 8021B	
Toluene	**0.117**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.380**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.445**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.256**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**41.7**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**256**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [6.73]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbon nC6-nC35	**298**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.0 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-7 2-3' (6E25029-27) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/02/06	EPA 8021B	
Toluene	**0.0727**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.314**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.404**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.223**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**138**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**1050**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**83.5**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**1270**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	
HA-7 3-4' (6E25029-28) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/02/06	EPA 8021B	
Toluene	**0.0682**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.179**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.143**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0538**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**71.3**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**636**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**34.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**742**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-8 0-1' (6E25029-29) Soil									
Benzene	**7.57**	0.250	mg/kg dry	250	EF60107	06/01/06	06/02/06	EPA 8021B	
Toluene	**112**	0.250	"	"	"	"	"	"	
Ethylbenzene	**125**	0.250	"	"	"	"	"	"	
Xylene (p/m)	**158**	0.250	"	"	"	"	"	"	
Xylene (o)	**78.5**	0.250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*244 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*226 %*	*80-120*		"	"	"	"	*S-04*
Carbon Ranges C6-C12	**9380**	20.0	mg/kg dry	2	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**13600**	20.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**1320**	20.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**24300**	20.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*157 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*118 %*	*70-130*		"	"	"	"	*S-04*
HA-8 1-2' (6E25029-30) Soil									
Benzene	ND	0.0500	mg/kg dry	50	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**0.153**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**0.289**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**0.392**	0.0500	"	"	"	"	"	"	
Xylene (o)	**0.167**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**27.3**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**106**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**133**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*100 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.8 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-8 2-3' (6E25029-31) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	**J [0.0164]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0288**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0380**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**J [6.76]**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	J
Carbon Ranges C12-C28	**50.5**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**50.5**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
HA-8 3-4' (6E25029-32) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0191]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0272**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.5 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**13.4**	10.0	mg/kg dry	1	EE62608	05/26/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**94.4**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**J [7.61]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbon nC6-nC35	**108**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-9 0-1' (6E25029-33) Soil									
Benzene	**0.900**	0.100	mg/kg dry	100	EF60107	06/01/06	06/02/06	EPA 8021B	
Toluene	**14.8**	0.100	"	"	"	"	"	"	
Ethylbenzene	**21.1**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**28.3**	0.100	"	"	"	"	"	"	
Xylene (o)	**13.5**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*162 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**1440**	10.0	mg/kg dry	1	EE63112	05/31/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**2300**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	**188**	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**3930**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*128 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*115 %*	*70-130*		"	"	"	"	
HA-9 1-2' (6E25029-34) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63112	05/31/06	06/01/06	EPA 8015M	
Carbon Ranges C12-C28	**31.1**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**31.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*88.6 %*	*70-130*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-9 2-3' (6E25029-35) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0304**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0424**	0.0250	"	"	"	"	"	"	
Xylene (o)	**J [0.0179]**	0.0250	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	**11.9**	10.0	mg/kg dry	1	EE63112	05/31/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	**65.8**	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	**77.7**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.2 %*	*70-130*		"	"	"	"	
HA-9 3-4' (6E25029-36) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EF60107	06/01/06	06/01/06	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE63112	05/31/06	05/31/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.8 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 0-1' (6E25029-01) Soil									
% Moisture	**10.4**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-1 1-2' (6E25029-02) Soil									
% Moisture	**11.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-1 2-3' (6E25029-03) Soil									
% Moisture	**11.0**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-1 3-4' (6E25029-04) Soil									
% Moisture	**11.0**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-2 0-1' (6E25029-05) Soil									
% Moisture	**10.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-2 1-2' (6E25029-06) Soil									
% Moisture	**9.3**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-2 2-3' (6E25029-07) Soil									
% Moisture	**9.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-2 3-4' (6E25029-08) Soil									
% Moisture	**7.3**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-3 0-1' (6E25029-09) Soil									
% Moisture	**11.5**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-3 1-2' (6E25029-10) Soil									
% Moisture	**12.6**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	

General Chemistry Parameters by EPA / Standard Methods
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-3 2-3' (6E25029-11) Soil									
% Moisture	**8.7**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-3 3-4' (6E25029-12) Soil									
% Moisture	**8.1**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-4 0-1' (6E25029-13) Soil									
% Moisture	**8.5**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-4 1-2' (6E25029-14) Soil									
% Moisture	**6.6**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-4 2-3' (6E25029-15) Soil									
% Moisture	**8.2**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-4 3-4' (6E25029-16) Soil									
% Moisture	**7.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-5 0-1' (6E25029-17) Soil									
% Moisture	**7.4**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-5 1-2' (6E25029-18) Soil									
% Moisture	**10.2**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-5 2-3' (6E25029-19) Soil									
% Moisture	**10.7**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-5 3-4' (6E25029-20) Soil									
% Moisture	**10.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 0-1' (6E25029-21) Soil									
% Moisture	**8.0**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-6 1-2' (6E25029-22) Soil									
% Moisture	**9.2**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-6 2-3' (6E25029-23) Soil									
% Moisture	**8.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-6 3-4' (6E25029-24) Soil									
% Moisture	**9.5**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-7 0-1' (6E25029-25) Soil									
% Moisture	**3.4**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-7 1-2' (6E25029-26) Soil									
% Moisture	**12.6**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-7 2-3' (6E25029-27) Soil									
% Moisture	**6.7**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-7 3-4' (6E25029-28) Soil									
% Moisture	**8.9**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-8 0-1' (6E25029-29) Soil									
% Moisture	**4.4**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-8 1-2' (6E25029-30) Soil									
% Moisture	**6.1**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	

General Chemistry Parameters by EPA / Standard Methods
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-8 2-3' (6E25029-31) Soil									
% Moisture	**6.2**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-8 3-4' (6E25029-32) Soil									
% Moisture	**8.0**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-9 0-1' (6E25029-33) Soil									
% Moisture	**12.3**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-9 1-2' (6E25029-34) Soil									
% Moisture	**6.1**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-9 2-3' (6E25029-35) Soil									
% Moisture	**6.8**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	
HA-9 3-4' (6E25029-36) Soil									
% Moisture	**7.7**	0.1	%	1	EF60103	05/31/06	06/01/06	% calculation	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62608 - Solvent Extraction (GC)										
Blank (EE62608-BLK1)				Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*47.6*		*mg/kg*	*50.0*		*95.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.9*		*"*	*50.0*		*87.8*	*70-130*			
LCS (EE62608-BS1)				Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	585	10.0	mg/kg wet	500		117	75-125			
Carbon Ranges C12-C28	565	10.0	"	500		113	75-125			
Total Hydrocarbon nC6-nC35	1150	10.0	"	1000		115	75-125			
Surrogate: 1-Chlorooctane	*55.9*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.0*		*"*	*50.0*		*90.0*	*70-130*			
Calibration Check (EE62608-CCV1)				Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	297		mg/kg	250		119	80-120			
Carbon Ranges C12-C28	299		"	250		120	80-120			
Total Hydrocarbon nC6-nC35	596		"	500		119	80-120			
Surrogate: 1-Chlorooctane	*63.9*		*"*	*50.0*		*128*	*70-130*			
Surrogate: 1-Chlorooctadecane	*62.4*		*"*	*50.0*		*125*	*70-130*			
Matrix Spike (EE62608-MS1)	**Source: 6E25029-23**			Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	609	10.0	mg/kg dry	549	6.70	110	75-125			
Carbon Ranges C12-C28	598	10.0	"	549	48.4	100	75-125			
Total Hydrocarbon nC6-nC35	1210	10.0	"	1100	48.4	106	75-125			
Surrogate: 1-Chlorooctane	*55.4*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62608 - Solvent Extraction (GC)										
Matrix Spike Dup (EE62608-MSD1)	**Source: 6E25029-23**			Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	606	10.0	mg/kg dry	549	6.70	109	75-125	0.494	20	
Carbon Ranges C12-C28	603	10.0	"	549	48.4	101	75-125	0.833	20	
Total Hydrocarbon nC6-nC35	1210	10.0	"	1100	48.4	106	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*55.5*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.2*		*"*	*50.0*		*90.4*	*70-130*			
Batch EE62615 - Solvent Extraction (GC)										
Blank (EE62615-BLK1)				Prepared: 05/26/06 Analyzed: 05/30/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*37.6*		*mg/kg*	*50.0*		*75.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.4*		*"*	*50.0*		*78.8*	*70-130*			
LCS (EE62615-BS1)				Prepared: 05/26/06 Analyzed: 05/30/06						
Carbon Ranges C6-C12	514	10.0	mg/kg wet	500		103	75-125			
Carbon Ranges C12-C28	538	10.0	"	500		108	75-125			
Total Hydrocarbon nC6-nC35	1050	10.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	*45.9*		*mg/kg*	*50.0*		*91.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.2*		*"*	*50.0*		*86.4*	*70-130*			
Calibration Check (EE62615-CCV1)				Prepared: 05/26/06 Analyzed: 05/31/06						
Carbon Ranges C6-C12	277		mg/kg	250		111	80-120			
Carbon Ranges C12-C28	277		"	250		111	80-120			
Total Hydrocarbon nC6-nC35	554		"	500		111	80-120			
Surrogate: 1-Chlorooctane	*48.9*		*"*	*50.0*		*97.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.6*		*"*	*50.0*		*97.2*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62615 - Solvent Extraction (GC)										
Matrix Spike (EE62615-MS1)	**Source: 6E25029-03**			Prepared: 05/26/06		Analyzed: 05/31/06				
Carbon Ranges C6-C12	536	10.0	mg/kg dry	562	35.7	89.0	75-125			
Carbon Ranges C12-C28	577	10.0	"	562	125	80.4	75-125			
Total Hydrocarbon nC6-nC35	1110	10.0	"	1120	161	84.7	75-125			
Surrogate: 1-Chlorooctane	*46.5*		*mg/kg*	*50.0*		*93.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.9*		"	*50.0*		*83.8*	*70-130*			
Matrix Spike Dup (EE62615-MSD1)	**Source: 6E25029-03**			Prepared: 05/26/06		Analyzed: 05/31/06				
Carbon Ranges C6-C12	541	10.0	mg/kg dry	562	35.7	89.9	75-125	0.929	20	
Carbon Ranges C12-C28	585	10.0	"	562	125	81.9	75-125	1.38	20	
Total Hydrocarbon nC6-nC35	1130	10.0	"	1120	161	86.5	75-125	1.79	20	
Surrogate: 1-Chlorooctane	*46.8*		*mg/kg*	*50.0*		*93.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.2*		"	*50.0*		*84.4*	*70-130*			
Batch EE63104 - EPA 5030C (GC)										
Blank (EE63104-BLK1)				Prepared & Analyzed: 05/31/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*41.6*		*ug/kg*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.9*		"	*40.0*		*89.8*	*80-120*			
LCS (EE63104-BS1)				Prepared & Analyzed: 05/31/06						
Benzene	1.13	0.0250	mg/kg wet	1.25		90.4	80-120			
Toluene	1.14	0.0250	"	1.25		91.2	80-120			
Ethylbenzene	1.28	0.0250	"	1.25		102	80-120			
Xylene (p/m)	2.54	0.0250	"	2.50		102	80-120			
Xylene (o)	1.28	0.0250	"	1.25		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.9*		*ug/kg*	*40.0*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.3*		"	*40.0*		*88.2*	*80-120*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE63104 - EPA 5030C (GC)										
Calibration Check (EE63104-CCV1)				Prepared: 05/31/06 Analyzed: 06/01/06						
Benzene	42.2		ug/kg	50.0		84.4	80-120			
Toluene	43.0		"	50.0		86.0	80-120			
Ethylbenzene	49.4		"	50.0		98.8	80-120			
Xylene (p/m)	98.2		"	100		98.2	80-120			
Xylene (o)	52.0		"	50.0		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.8*		"	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.1*		"	*40.0*		*118*	*80-120*			
Matrix Spike (EE63104-MS1)		**Source: 6E25008-01**		Prepared: 05/31/06 Analyzed: 06/01/06						
Benzene	1.17	0.0250	mg/kg dry	1.29	ND	90.7	80-120			
Toluene	1.19	0.0250	"	1.29	ND	92.2	80-120			
Ethylbenzene	1.25	0.0250	"	1.29	ND	96.9	80-120			
Xylene (p/m)	2.67	0.0250	"	2.57	ND	104	80-120			
Xylene (o)	1.43	0.0250	"	1.29	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*42.2*		*ug/kg*	*40.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.0*		"	*40.0*		*102*	*80-120*			
Matrix Spike Dup (EE63104-MSD1)		**Source: 6E25008-01**		Prepared: 05/31/06 Analyzed: 06/01/06						
Benzene	1.10	0.0250	mg/kg dry	1.29	ND	85.3	80-120	6.14	20	
Toluene	1.12	0.0250	"	1.29	ND	86.8	80-120	6.03	20	
Ethylbenzene	1.23	0.0250	"	1.29	ND	95.3	80-120	1.66	20	
Xylene (p/m)	2.58	0.0250	"	2.57	ND	100	80-120	3.92	20	
Xylene (o)	1.29	0.0250	"	1.29	ND	100	80-120	10.4	20	
Surrogate: a,a,a-Trifluorotoluene	*42.2*		*ug/kg*	*40.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.0*		"	*40.0*		*100*	*80-120*			
Batch EE63112 - Solvent Extraction (GC)										
Blank (EE63112-BLK1)				Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.7*		*mg/kg*	*50.0*		*91.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.3*		"	*50.0*		*88.6*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE63112 - Solvent Extraction (GC)										
LCS (EE63112-BS1)				Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	557	10.0	mg/kg wet	500		111	75-125			
Carbon Ranges C12-C28	547	10.0	"	500		109	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbon nC6-nC35	1100	10.0	"	1000		110	75-125			
Surrogate: 1-Chlorooctane	*53.1*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.3*		"	*50.0*		*90.6*	*70-130*			
Calibration Check (EE63112-CCV1)				Prepared: 05/31/06 Analyzed: 06/01/06						
Carbon Ranges C6-C12	294		mg/kg	250		118	80-120			
Carbon Ranges C12-C28	297		"	250		119	80-120			
Total Hydrocarbon nC6-nC35	590		"	500		118	80-120			
Surrogate: 1-Chlorooctane	*63.5*		"	*50.0*		*127*	*70-130*			
Surrogate: 1-Chlorooctadecane	*61.9*		"	*50.0*		*124*	*70-130*			
Matrix Spike (EE63112-MS1)		**Source: 6E26002-04**		Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	649	10.0	mg/kg dry	524	ND	124	75-125			
Carbon Ranges C12-C28	649	10.0	"	524	35.5	117	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon nC6-nC35	1300	10.0	"	1050	35.5	120	75-125			
Surrogate: 1-Chlorooctane	*55.1*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.1*		"	*50.0*		*92.2*	*70-130*			
Matrix Spike Dup (EE63112-MSD1)		**Source: 6E26002-04**		Prepared & Analyzed: 05/31/06						
Carbon Ranges C6-C12	647	10.0	mg/kg dry	524	ND	123	75-125	0.309	20	
Carbon Ranges C12-C28	638	10.0	"	524	35.5	115	75-125	1.71	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1290	10.0	"	1050	35.5	119	75-125	0.772	20	
Surrogate: 1-Chlorooctane	*54.6*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.4*		"	*50.0*		*92.8*	*70-130*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60107 - EPA 5030C (GC)										
Blank (EF60107-BLK1)				Prepared & Analyzed: 06/01/06						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*40.5*		*ug/kg*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.9*		*"*	*40.0*		*89.8*	*80-120*			
LCS (EF60107-BS1)				Prepared & Analyzed: 06/01/06						
Benzene	1.12	0.0250	mg/kg wet	1.25		89.6	80-120			
Toluene	1.14	0.0250	"	1.25		91.2	80-120			
Ethylbenzene	1.23	0.0250	"	1.25		98.4	80-120			
Xylene (p/m)	2.63	0.0250	"	2.50		105	80-120			
Xylene (o)	1.32	0.0250	"	1.25		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.8*		*ug/kg*	*40.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.0*		*"*	*40.0*		*110*	*80-120*			
Calibration Check (EF60107-CCV1)				Prepared & Analyzed: 06/01/06						
Benzene	45.7		ug/kg	50.0		91.4	80-120			
Toluene	45.2		"	50.0		90.4	80-120			
Ethylbenzene	49.5		"	50.0		99.0	80-120			
Xylene (p/m)	98.5		"	100		98.5	80-120			
Xylene (o)	50.9		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.0*		*"*	*40.0*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.4*		*"*	*40.0*		*98.5*	*80-120*			
Matrix Spike (EF60107-MS1)	**Source: 6E25029-36**			Prepared: 06/01/06 Analyzed: 06/02/06						
Benzene	1.24	0.0250	mg/kg dry	1.35	ND	91.9	80-120			
Toluene	1.25	0.0250	"	1.35	ND	92.6	80-120			
Ethylbenzene	1.25	0.0250	"	1.35	ND	92.6	80-120			
Xylene (p/m)	2.84	0.0250	"	2.71	ND	105	80-120			
Xylene (o)	1.39	0.0250	"	1.35	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.3*		*ug/kg*	*40.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		*"*	*40.0*		*96.0*	*80-120*			

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60107 - EPA 5030C (GC)										
Matrix Spike Dup (EF60107-MSD1)	**Source: 6E25029-36**			Prepared: 06/01/06 Analyzed: 06/02/06						
Benzene	1.25	0.0250	mg/kg dry	1.35	ND	92.6	80-120	0.759	20	
Toluene	1.26	0.0250	"	1.35	ND	93.3	80-120	0.753	20	
Ethylbenzene	1.31	0.0250	"	1.35	ND	97.0	80-120	4.64	20	
Xylene (p/m)	2.90	0.0250	"	2.71	ND	107	80-120	1.89	20	
Xylene (o)	1.43	0.0250	"	1.35	ND	106	80-120	2.87	20	
Surrogate: a,a,a-Trifluorotoluene	*43.2*		*ug/kg*	*40.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.1*		*"*	*40.0*		*97.8*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60103 - General Preparation (Prep)										
Blank (EF60103-BLK1)				Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	100		%							
Duplicate (EF60103-DUP1)		**Source: 6E31005-02**		Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	84.9		%		81.1			4.58	20	
Duplicate (EF60103-DUP2)		**Source: 6E31003-02**		Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	93.5		%		93.6			0.107	20	
Duplicate (EF60103-DUP3)		**Source: 6E31006-06**		Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	92.2		%		92.7			0.541	20	
Duplicate (EF60103-DUP4)		**Source: 6E25029-14**		Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	93.7		%		93.4			0.321	20	
Duplicate (EF60103-DUP5)		**Source: 6E25029-34**		Prepared: 05/31/06 Analyzed: 06/01/06						
% Solids	94.1		%		93.9			0.213	20	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 6-05-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Mark Larson

Date/Time: 5/25/06 4:00

Order #: ELP20029

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chesapeake

SITE MANAGER: Mark Larson

PROJECT NO.: 5-0130

PROJECT NAME: Ollie Boyd

PAGE 1 OF 2

LAB. PO #

PARAMETERS/METHOD NUMBER

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TPH 8015m	BTEX	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/24	0812		X		HA-1 0-1'	1	X	X	01	6E25029
	0822				1-2'				02	
	0828				2-3'				03	
	0835				3-4'				04	
	0844				HA-2 0-1'				05	
	0851				1-2'				06	
	0859				2-3'				07	
	0904				3-4'				08	
	0920				HA-3 0-1'				09	
	0926				1-2'				10	
	0935				2-3'				11	
	0943				3-4'				12	
	1245				HA-4 0-1'				13	
	1251				1-2'				14	
	1255				2-3'				15	
	1300				3-4'				16	
5/25	0800				HA-5 0-1'				17	
5/25	0805				1-2'				18	

SAMPLED BY: (Signature) DATE: 5/25/06 TIME: 1200

RELINQUISHED BY: (Signature) DATE: 5/25 TIME: 1600

RECEIVED BY: (Signature) DATE: TIME:

RELINQUISHED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: 5/25/06 TIME: 4:00

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON: 1.0
402 glass

SAMPLE TYPE:

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc. Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chesapeake
SITE MANAGER: Mark Larson
PROJECT NO.: 5-0130
PROJECT NAME: Ollie Boyd
PAGE 2 OF 2
LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: TPH 8015m	PARAMETERS/METHOD NUMBER: BTEX	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/25	0811		X		HA-5 2-3'	1	X	X	-19	6E25029
	0817				↓ 3-4'				-20	
	0832				HA-6 0-1'				-21	
	0838				1-2'				-22	
	0846				2-3'				-23	
	0851				3-4'				-24	
	0901				HA-7 0-1'				-25	
	0906				1-2'				-26	
	0912				2-3'				-27	
	0917				3-4'				-28	
	0925				HA-8 0-1'				-29	
	0932				1-2'				-30	
	0937				2-3'				-31	
	0941				3-4'				-32	
	0951				HA-9 0-1'				-33	
	0955				1-2'				-34	
	1002				2-3'				-35	
	1008				3-4'				-36	

SAMPLED BY: (Signature) DATE: 5/25/06 TIME: 1200
RELINQUISHED BY: (Signature) DATE: 5/25 TIME: 1600
RECEIVED BY: (Signature) DATE: TIME:

RELINQUISHED BY: (Signature) DATE: TIME:
RECEIVED BY: (Signature) DATE: TIME:
SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS:
TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 5/25/06 TIME: 4:00

SAMPLE CONDITION WHEN RECEIVED:
LA CONTACT PERSON: 1.0
4oz glass
SAMPLE TYPE:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Chesapeake/ Ollie J. Boyd

Project Number: 5-0130

Location: None Given

Lab Order Number: 6F15007

Report Date: 06/20/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chesapeake/ Ollie J. Boyd
Project Number: 5-0130
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 0-1'	6F15007-01	Soil	05/24/06 08:12	05/25/06 16:00
HA-1 1-2'	6F15007-02	Soil	05/24/06 08:22	05/25/06 16:00
HA-1 2-3'	6F15007-03	Soil	05/24/06 08:28	05/25/06 16:00
HA-1 3-4'	6F15007-04	Soil	05/24/06 08:35	05/25/06 16:00
HA-2 0-1'	6F15007-05	Soil	05/24/06 08:44	05/25/06 16:00
HA-2 1-2'	6F15007-06	Soil	05/24/06 08:51	05/25/06 16:00
HA-2 2-3'	6F15007-07	Soil	05/24/06 08:59	05/25/06 16:00
HA-2 3-4'	6F15007-08	Soil	05/24/06 09:04	05/25/06 16:00
HA-3 0-1'	6F15007-09	Soil	05/24/06 09:20	05/25/06 16:00
HA-3 1-2'	6F15007-10	Soil	05/24/06 09:26	05/25/06 16:00
HA-3 2-3'	6F15007-11	Soil	05/24/06 09:35	05/25/06 16:00
HA-3 3-4'	6F15007-12	Soil	05/24/06 09:43	05/25/06 16:00
HA-4 0-1'	6F15007-13	Soil	05/24/06 12:45	05/25/06 16:00
HA-4 1-2'	6F15007-14	Soil	05/24/06 12:51	05/25/06 16:00
HA-4 2-3'	6F15007-15	Soil	05/24/06 12:55	05/25/06 16:00
HA-4 3-4'	6F15007-16	Soil	05/24/06 13:00	05/25/06 16:00
HA-5 0-1'	6F15007-17	Soil	05/25/06 08:00	05/25/06 16:00
HA-5 1-2'	6F15007-18	Soil	05/25/06 08:05	05/25/06 16:00
HA-5 2-3'	6F15007-19	Soil	05/25/06 08:11	05/25/06 16:00
HA-5 3-4'	6F15007-20	Soil	05/25/06 08:17	05/25/06 16:00
HA-6 0-1'	6F15007-21	Soil	05/25/06 08:32	05/25/06 16:00
HA-6 1-2'	6F15007-22	Soil	05/25/06 08:38	05/25/06 16:00
HA-6 2-3'	6F15007-23	Soil	05/25/06 08:46	05/25/06 16:00
HA-6 3-4'	6F15007-24	Soil	05/25/06 08:51	05/25/06 16:00
HA-7 0-1'	6F15007-25	Soil	05/25/06 09:01	05/25/06 16:00
HA-7 1-2'	6F15007-26	Soil	05/25/06 09:06	05/25/06 16:00
HA-7 2-3'	6F15007-27	Soil	05/25/06 09:12	05/25/06 16:00
HA-7 3-4'	6F15007-28	Soil	05/25/06 09:17	05/25/06 16:00
HA-8 0-1'	6F15007-29	Soil	05/25/06 09:25	05/25/06 16:00
HA-8 1-2'	6F15007-30	Soil	05/25/06 09:32	05/25/06 16:00
HA-8 2-3'	6F15007-31	Soil	05/25/06 09:37	05/25/06 16:00
HA-8 3-4'	6F15007-32	Soil	05/25/06 09:41	05/25/06 16:00
HA-9 0-1'	6F15007-33	Soil	05/25/06 09:51	05/25/06 16:00
HA-9 1-2'	6F15007-34	Soil	05/25/06 09:55	05/25/06 16:00

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chesapeake/ Ollie J. Boyd
Project Number: 5-0130
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-9 2-3'	6F15007-35	Soil	05/25/06 10:02	05/25/06 16:00
HA-9 3-4'	6F15007-36	Soil	05/25/06 10:08	05/25/06 16:00

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chesapeake/ Ollie J. Boyd
Project Number: 5-0130
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 0-1' (6F15007-01) Soil									
Chloride	**119**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-1 1-2' (6F15007-02) Soil									
Chloride	**142**	10.0	mg/kg	20	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-1 2-3' (6F15007-03) Soil									
Chloride	**78.5**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-1 3-4' (6F15007-04) Soil									
Chloride	**96.8**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-2 0-1' (6F15007-05) Soil									
Chloride	**248**	10.0	mg/kg	20	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-2 1-2' (6F15007-06) Soil									
Chloride	**90.4**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-2 2-3' (6F15007-07) Soil									
Chloride	**179**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-2 3-4' (6F15007-08) Soil									
Chloride	**160**	10.0	mg/kg	20	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-3 0-1' (6F15007-09) Soil									
Chloride	**63.3**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-3 1-2' (6F15007-10) Soil									
Chloride	**54.3**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Chesapeake/ Ollie J. Boyd
Project Number: 5-0130
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-3 2-3' (6F15007-11) Soil									
Chloride	**49.2**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-3 3-4' (6F15007-12) Soil									
Chloride	**46.6**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-4 0-1' (6F15007-13) Soil									
Chloride	**46.0**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-4 1-2' (6F15007-14) Soil									
Chloride	**27.0**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-4 2-3' (6F15007-15) Soil									
Chloride	**32.1**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-4 3-4' (6F15007-16) Soil									
Chloride	**35.6**	5.00	mg/kg	10	EF61801	06/18/06	06/19/06	EPA 300.0	
HA-5 0-1' (6F15007-17) Soil									
Chloride	**19.8**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-5 1-2' (6F15007-18) Soil									
Chloride	**33.0**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-5 2-3' (6F15007-19) Soil									
Chloride	**47.7**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-5 3-4' (6F15007-20) Soil									
Chloride	**86.4**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 0-1' (6F15007-21) Soil									
Chloride	**95.2**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-6 1-2' (6F15007-22) Soil									
Chloride	**197**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-6 2-3' (6F15007-23) Soil									
Chloride	**140**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-6 3-4' (6F15007-24) Soil									
Chloride	**107**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-7 0-1' (6F15007-25) Soil									
Chloride	**23.1**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-7 1-2' (6F15007-26) Soil									
Chloride	**26.3**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-7 2-3' (6F15007-27) Soil									
Chloride	**27.9**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-7 3-4' (6F15007-28) Soil									
Chloride	**27.3**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-8 0-1' (6F15007-29) Soil									
Chloride	**26.7**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-8 1-2' (6F15007-30) Soil									
Chloride	**17.9**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	

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General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-8 2-3' (6F15007-31) Soil									
Chloride	**27.5**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-8 3-4' (6F15007-32) Soil									
Chloride	**35.3**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-9 0-1' (6F15007-33) Soil									
Chloride	**73.4**	5.00	mg/kg	10	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-9 1-2' (6F15007-34) Soil									
Chloride	**138**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-9 2-3' (6F15007-35) Soil									
Chloride	**423**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	
HA-9 3-4' (6F15007-36) Soil									
Chloride	**683**	10.0	mg/kg	20	EF62002	06/19/06	06/19/06	EPA 300.0	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61801 - General Preparation (WetChem)										
Blank (EF61801-BLK1)				Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	ND	0.500	mg/kg							
LCS (EF61801-BS1)				Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	10.4	0.500	mg/kg	10.0		104	80-120			
Calibration Check (EF61801-CCV1)				Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EF61801-DUP1)		**Source: 6F16006-03**		Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	11.8	5.00	mg/kg		12.1			2.51	20	
Duplicate (EF61801-DUP2)		**Source: 6F15007-08**		Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	153	10.0	mg/kg		160			4.47	20	
Matrix Spike (EF61801-MS1)		**Source: 6F16006-03**		Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	101	5.00	mg/kg	100	12.1	88.9	80-120			
Matrix Spike (EF61801-MS2)		**Source: 6F15007-08**		Prepared: 06/18/06 Analyzed: 06/19/06						
Chloride	354	10.0	mg/kg	200	160	97.0	80-120			
Batch EF62002 - Water Extraction										
Blank (EF62002-BLK1)				Prepared & Analyzed: 06/19/06						
Chloride	ND	0.500	mg/kg							
LCS (EF62002-BS1)				Prepared & Analyzed: 06/19/06						
Chloride	10.3	0.500	mg/kg	10.0		103	80-120			

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Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF62002 - Water Extraction										
Calibration Check (EF62002-CCV1)				Prepared & Analyzed: 06/19/06						
Chloride	10.6		mg/kg	10.0		106	80-120			
Duplicate (EF62002-DUP1)		Source: 6F15007-22		Prepared & Analyzed: 06/19/06						
Chloride	203	10.0	mg/kg		197			3.00	20	
Duplicate (EF62002-DUP2)		Source: 6F15007-35		Prepared & Analyzed: 06/19/06						
Chloride	414	10.0	mg/kg		423			2.15	20	
Matrix Spike (EF62002-MS1)		Source: 6F15007-22		Prepared & Analyzed: 06/19/06						
Chloride	414	10.0	mg/kg	200	197	108	80-120			
Matrix Spike (EF62002-MS2)		Source: 6F15007-35		Prepared & Analyzed: 06/19/06						
Chloride	676	10.0	mg/kg	200	423	126	80-120			S-08

Notes and Definitions

S-08	Value outside Laboratory historical or method prescribed QC limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 6-20-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chesapeake
SITE MANAGER: Mark Larson
PROJECT NO.: 5 [illegible] 50
PROJECT NAME: Ollie Boyd
PAGE 1 OF 2
LAB. PO #

PARAMETERS/METHOD NUMBER: TPH 8015m; BTEX; Chloride

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TPH 8015m	BTEX	Chloride	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/24	[illegible]		X		HA-1 0-1'	1	X	X	X	-01	WF-25029 / GF15007
	[illegible]				1-2'					-02	
	[illegible]				2-3'					-03	
	[illegible]				3-4'					-04	
	[illegible]				HA-2 0-1'					-05	
	[illegible]				1-2'					-06	
	[illegible]				2-3'					-07	
	[illegible]				3-4'					-08	
	[illegible]				HA-3 0-1'					-09	
	[illegible]				1-2'					-10	
	[illegible]				2-3'					-11	
	[illegible]				3-4'					-12	
	[illegible]				HA-4 0-1'					-13	
	[illegible]				1-2'					-14	
	[illegible]				2-3'					-15	
	[illegible]				3-4'					-16	
5/25	[illegible]				HA-5 0-1'					-17	
5/25	[illegible]				1-2'					-18	

SAMPLED BY: (Signature) DATE: 5/25/06 TIME: 1200
RELINQUISHED BY: (Signature) DATE: 5/25 TIME: 1400
RECEIVED BY: (Signature) DATE: TIME:

RELINQUISHED BY: (Signature) DATE: TIME:
RECEIVED BY: (Signature) DATE: TIME:
SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS: ⊗ Add Cl⁻ 06-15-06 as per attached e-mail
TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) [illegible]
DATE: 5/25/06 TIME: 4:00

SAMPLE CONDITION WHEN RECEIVED:
LA CONTACT PERSON: 4oz glass 1.0
SAMPLE TYPE: COPY

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
Fax: 432-687-0456
432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Chesapeake

SITE MANAGER: Mark Larson

PROJECT NO.: 15 0150

PROJECT NAME: Ollie Boyd

PAGE 3 OF 6

LAB. PO #

PARAMETERS/METHOD NUMBER

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	TPH 8015m	BTEX	Chloride	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
5/25	0811		X		HA-5 2-3'	1	X	X	X	-19	LCE 2505 1 / 6F15007
	0817				3-4'					-20	
	0832				HA-6 0-1'					-21	
	0838				1-2'					-22	
	0846				2-3'					-23	
	0851				3-4'					-24	
	0901				HA-7 0-1'					-25	
	0906				1-2'					-26	
	0912				2-3'					-27	
	0917				3-4'					-28	
	0926				HA-8 0-1'					-29	
	0932				1-2'					-30	
	0939				2-3'					-31	
	0941				3-4'					-32	
	0951				HA-9 0-1'					-33	
	0955				1-2'					-34	
	1002				2-3'					-35	
	1008				3-4'					-36	

SAMPLED BY: (Signature) DATE: 5/25/06 TIME: 1200

RELINQUISHED BY: (Signature) DATE: 5/25 TIME: 1600

RECEIVED BY: (Signature) DATE: _____ TIME: _____

RELINQUISHED BY: (Signature) DATE: _____ TIME: _____

RECEIVED BY: (Signature) DATE: _____ TIME: _____

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #: _____
HAND DELIVERED UPS OTHER: _____

COMMENTS: ⊗ Add Cl- 06-15-06 as per attached e-mail

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
CONTACT: _____ PHONE: _____

RECEIVED BY: (Signature) Cassie 1600
DATE: 5/25/06 TIME: 4:00

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON: 4oz 9 cs L.O.

SAMPLE TYPE: COPY

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Mark Larson

Date/Time: 5/25/06 4:00

Order #: 605029 / 6F150

Initials: CK

COPY

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

Jeanne McMurrey

From: "Mark Larson" <mark@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Thursday, June 15, 2006 7:47 AM
Subject: RE: 6E25029 Chesapeake/ Ollie J. Boyd

Jeanne: Please run chloride on all samples.
Thanks, Mark

-----Original Message-----
From: Jeanne McMurrey [mailto:jeanne@elabtexas.com]
Sent: Monday, June 05, 2006 3:22 PM
To: Mark Larson
Subject: RE: 6E25029 Chesapeake/ Ollie J. Boyd

Jeanne McMurrey
Environmental Lab of Texas I, Ltd.
12600 West I-20 East
Odessa, Texas 79765
432-563-1800

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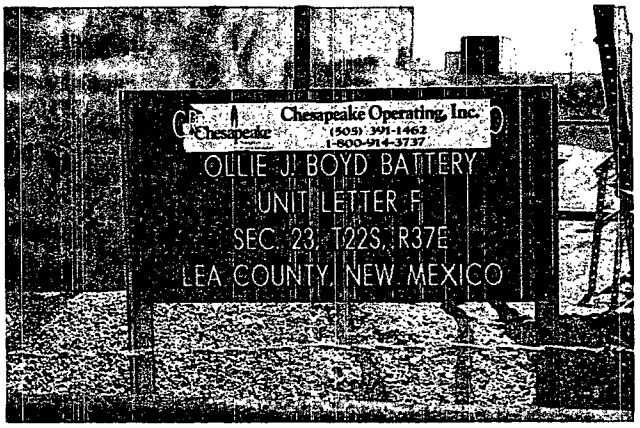
This message has been scanned for viruses and dangerous content by **BasinBroadband**, and is believed to be clean.

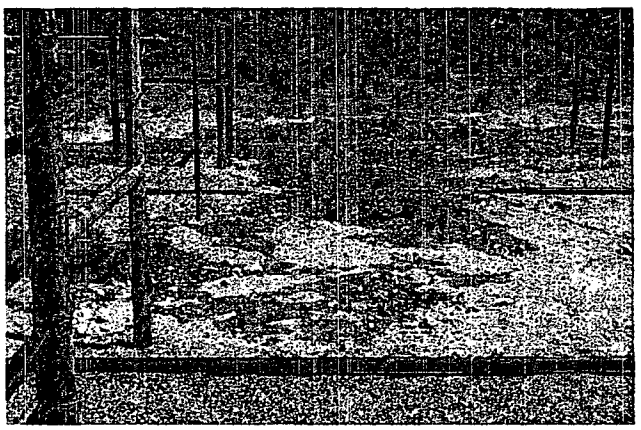
APPENDIX C

Photographs

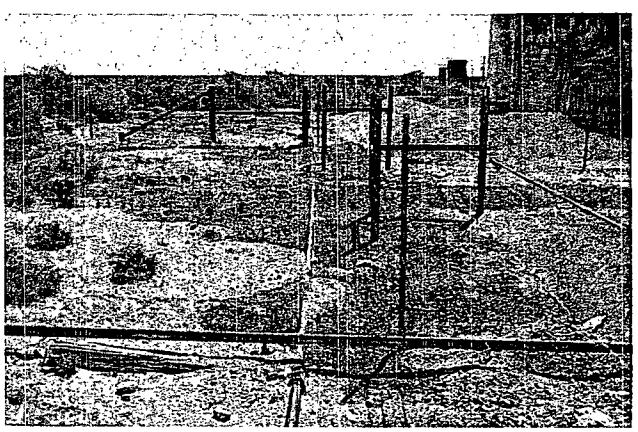
UL C, (NE/NW), SECTION 23, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO



1. Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery - Location Sign



2. Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery - Leak Site, Looking North



3. Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery - Leak Site, Looking East

UL C, (NE/NW), SECTION 23, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO

4. Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery - Leak Site, Looking East

5. Chesapeake Operating, Inc., Ollie J. Boyd Tank Battery - Leak Site, Looking West