



# INITIAL ABATEMENT MEASURES REPORT

## Building AS-511, Rapid Refuel System

*for*

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### Marine Corps Air Station, New River, NC



**Baker**

Virginia Beach, VA

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Contract No. FA8903-04-D-8684-0003 JANUARY 2007

# Initial Abatement Measures Report (20-Day Report)

## A. Site Identification

DATE OF REPORT: 1/16/07

Facility I.D.: V-002740

UST Incident Number (if known): \_\_\_\_\_

Site Name: Marine Corps Air Station – New River Rapid Refuel System

Site Location: Building: AS-511

Nearest City/Town: Jacksonville

County: Onslow

UST Owner: Marine Corps Base Camp Lejeune (USMC)

Address: PSC Box 20004, Attn: EMD, Camp Lejeune MCB, NC 28542 Phone: 1-910-451-9660

UST Operator: Marine Corps Air Station, New River, Fuels Division (USMC)

Address: Building AS-140, Attn: Fuels Officer, MCAS New River, NC 28545

Phone: 910-451-9660

Property Owner: Commanding Officer, MCB Camp Lejeune

Address: PSC Box 20004, Camp LeJeune MCB, NC 28542 Phone: 1-910-451-9660

Property Occupant: Marine Corps Air Station, New River, Fuels Division (USMC)

Address: Building AS-140, Attn: Fuels Officer, MCAS New River, NC 28545

Phone: 1-910-451-9660

Consultant/Contractor: Michael Baker Jr., Inc.

Address: 100 Airside Drive, Moon Township, PA 15108

Phone: (412) 269-6300

### Release Information

Date Discovered: 11/25/06

Latitude: 34.42.39

Longitude: -77.26.46

Estimated Quantity of Release: Unknown

Cause of Release: Pipeline joints were found leaking following Tracer pipeline testing hits at five probes along the JP-5 transfer pipeline leading to the New River Air Station Rapid Refuel System.

Source of Release: 6-inch Fiberglass Transfer Pipeline

Sizes and contents of UST system(s) from which the release occurred): The New River Air Station contains a JP-5 fueling system consisting of: the Campbell Street Bulk Fuel Farm, six Underground Storage Tanks at the Rapid Refueler System, and approximately 4,000 feet of 6-inch single wall fiberglass underground transfer piping and 1000 feet of 8-inch stainless steel transfer piping. In a typical month approximately 350,000 gallons of JP-5 is transferred and in a typical year approximately 3.8 million gallons of JP-5 is transferred to the Rapid Refueler System.

Complete and include as Attachments the following items B through G in the order listed.

I, Scott Moffett a Professional Geologist for Michael Baker, Jr., Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

(Please Affix Seal and Signature)



## **B. Initial Abatement Activities :**

- ⇒ Removal of regulated substance from UST: Approximately 600 gallons of JP-5 was removed from the 6-inch diameter fiberglass pipeline prior to repair activities. The fuel was placed in the petroleum collection recycle ASTs located at Camp LeJeune.
- ⇒ Source control actions: Multiple excavations were dug in the area of the failed Tracer probes. One leak was detected at a coupling going toward the A & B Rapid Refuel System, after the "T". Another small leak was discovered after the first leak at the next coupling. Two small leaks were found prior to the "T". A second excavation identified to small leaks further up stream of the Rapid Refuel System. Sketches of the excavations and sampling locations are presented in Appendix B. Confirmation soil samples were collected from beneath the pipeline leaks and results are presented in Table B-3.
- ⇒ Contaminant migration control measures (sorbants, berms, etc.): JP-5 contamination appeared to be generally localized and no obvious or needed control measures were implemented to control migration during pipeline repair activities.
- ⇒ Measures taken to mitigate fire/safety hazards: The excavation was backfilled with clean backfill to eliminate the fire/safety hazards. Analytical results for the clean soil are presented in Appendix D.
- ⇒ Contaminated soil storage, treatment, and/or disposal: Contaminated soil was excavated from around the leaking pipeline and stockpiled on plastic. Stockpiled soil was characterized and sent for off-site disposal as a non-hazardous waste. A total of 535.13 tons of contaminated soil was taken to ES&J Enterprises, Inc. facility located in Autryville, North Carolina.
- ⇒ Status of free product investigation and associated removal (if applicable): An investigation to determine if free product is present on the groundwater surface and to delineate the horizontal and vertical extents of petroleum contamination will be performed beginning on January 24, 2007.

## **C. Site History :**

Table B-1, UST systems currently or previously located at the site.

Table B-2, list the names, addresses, telephone numbers, and dates of ownership/operation of all previous UST owners and operators of the UST system(s).

## **D. Source Investigation**

The pipeline was excavated during the week of November 20, 2006 and November 27, 2006 in the areas of the Tracer Probe hits. Leaks were found at several couplings along the 6-inch fiberglass JP-5 transfer pipeline leading to the Rapid Refuel System. This pipeline and couplings were replaced and a pressure test of this section was completed to 90 psi or one and one half the normal operating pressure of 60 psi.

## **E. Figures**

See attached figures including Figure 1, Site Location Map and Figure 2, Site Plan.

## **F. Tables**

Soil sample results are presented on Table B-3. Groundwater samples have not been collected to date.

## **G. Appendices**

Appendix A – Pipeline Integrity Testing Report

Appendix B– Sample Location Map and Sketches

Appendix C – 24-Hour Release and UST Leak Reporting Form

Appendix D – Analytical Data (confirmation soil samples, stockpile samples, and clean backfill samples)

Appendix E – Waste Manifests

## **TABLES**

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## SITE HISTORY

Table B- 2 UST Owner/Operator Information (most recent first)

UST ID Number	Name of Owner or Operator	Dates of Ownership / Operation [(m/dd/yy) to (m/dd/yy)]	Owner or Operator?
T4	U. S. Marine Corps	2006 to Present	Both
<b>Address</b>		<b>Telephone Number</b>	
PSC Box 20004, Attn:EMD, Camp Lejeune MCB, NC 28542		1-910-451-9660	
UST ID Number	Name of Owner or Operator	Dates of Ownership / Operation [(m/dd/yy) to (m/dd/yy)]	Owner or Operator?
T1	U. S. Marine Corps	1994 to Present	Both
<b>Address</b>		<b>Telephone Number</b>	
PSC Box 20004, Attn:EMD, Camp Lejeune MCB, NC 28542		1-910-451-9660	
UST ID Number	Name of Owner or Operator	Dates of Ownership / Operation [(m/dd/yy) to (m/dd/yy)]	Owner or Operator?
T2	U. S. Marine Corps	1994 to Present	Both
<b>Address</b>		<b>Telephone Number</b>	
PSC Box 20004, Attn:EMD, Camp Lejeune MCB, NC 28542		1-910-451-9660	
UST ID Number	Name of Owner or Operator	Dates of Ownership / Operation [(m/dd/yy) to (m/dd/yy)]	Owner or Operator?
T3	U. S. Marine Corps	1994 to 2006	Both
<b>Address</b>		<b>Telephone Number</b>	
PSC Box 20004, Attn:EMD, Camp Lejeune MCB, NC 28542		1-910-451-9660	
UST ID Number	Name of Owner or Operator	Dates of Ownership / Operation [(m/dd/yy) to (m/dd/yy)]	Owner or Operator?
<b>Address</b>		<b>Telephone Number</b>	

Table B-3  
Summary of Soil Sampling Results

Date 1/16/07

Incident Number and Name: Building AS-511 Area

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →			VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260
Sample ID	Contaminant of Concern →		Acetone	Carbon Disulfide	Chloroform	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene
	Date Collected (mm/dd/yy)	Sample Depth (ft bgs)								
AS511-TA-001L	8/11/2006	6.5	0.0145	<0.00569	<0.00569	<0.00569	<0.00569	<0.00569	<0.00569	<0.00569
AS511-TA-002DL	8/11/2006	6.5	0.00155	<0.00505	<0.00505	<0.00505	<0.00505	<0.00505	<0.00505	<0.00505
AS511-TA-003	8/11/2006	6.5	0.011	<0.00638	<b>0.0231</b>	<0.00638	<0.00638	<0.00638	<0.00638	<0.00638
AS511-TB-004L	8/11/2006	6.5	<4.76	<0.190	<0.190	2.46	1.24	0.097	0.242	0.887
AS511-TB-005SL	8/11/2006	6.5	<44.9	<1.8	<1.8	<1.8	<b>9.18</b>	<b>1.13</b>	<b>2.26</b>	5.84
AS511-TB-006	8/11/2006	6.5	0.0377	<0.0045	<0.0045	0.00427	0.00425	<0.0045	<0.0045	<0.0045
AS511-TC-007	8/11/2006	6.5	<33.2	<1.33	<1.33	<b>5.54</b>	<b>3.93</b>	<1.33	0.717	1.61
AS511-TC-008	8/11/2006	6.5	0.00687	0.0256	<0.00878	<0.00878	<0.00878	0.0104	0.0098	<0.00878
<b>Soil to Groundwater MSCC (mg/kg)</b>			<b>3</b>	<b>4</b>	<b>0.001</b>	<b>4</b>	<b>3</b>	<b>0.24</b>	<b>2</b>	<b>NE</b>
<b>Residential MSCC (mg/kg)</b>			<i>1564</i>	<i>1564</i>	<i>100</i>	<i>156</i>	<i>156</i>	<i>1560</i>	<i>1564</i>	<i>NE</i>
<b>Industrial/Commercial MSCC (mg/kg)</b>			<u>40880</u>	<u>40880</u>	<u>938</u>	<u>4088</u>	<u>4088</u>	<u>40000</u>	<u>40880</u>	<u>NE</u>

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
- mg/kg = milligrams per kilogram

Table B-3  
Summary of Soil Sampling Results

Date 1/16/07

Incident Number and Name: Building AS-511 Area

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →			VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	VOC 8260	SVOC 8270	SVOC 8270
Sample ID	Contaminant of Concern →		Methylene Chloride	Naphthalene	n-Propyl Benzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	o-Xylene	2-Methylnaphthalene	Naphthalene
	Date Collected (mm/dd/yy)	Sample Depth (ft bgs)								
AS511-TA-001L	8/11/2006	6.5	0.00953	<0.00569	<0.00569	<0.00569	<0.00569	<0.00569	<0.379	<0.379
AS511-TA-002DI	8/11/2006	6.5	0.00684	<0.00505	<0.00505	<0.00505	<0.00505	<0.00505	<0.389	<0.389
AS511-TA-003	8/11/2006	6.5	0.0156	<0.00638	<0.00638	<0.00638	<0.00638	<0.00638	<0.413	<0.413
AS511-TB-004L	8/11/2006	6.5	<0.951	<b>2.97</b>	0.715	5.87	1.32	0.394	<b>5.07</b>	<b>2.22</b>
AS511-TB-005SI	8/11/2006	6.5	<8.98	<b>24</b>	<b>6.13</b>	<b>48.4</b>	<b>10.7</b>	4.42	<b>52.3</b>	<b>28.1</b>
AS511-TB-006	8/11/2006	6.5	0.00507	0.0225	<0.0045	0.012	<0.0045	<0.0045	0.18	0.149
AS511-TC-007	8/11/2006	6.5	<6.64	<b>10.7</b>	1.91	0.624	<1.33	<1.33	<b>24.8</b>	<b>10.8</b>
AS511-TC-008	8/11/2006	6.5	<b>0.0231</b>	0.157	0.0372	<0.00878	<0.00878	<0.00878	0.231	0.129
<b>Soil to Groundwater MSCC (mg/kg)</b>			<b>0.02</b>	<b>0.58</b>	<b>2</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>0.58</b>
<b>Residential MSCC (mg/kg)</b>			85	63	156	782	782	32000	63	63
<b>Industrial/Commercial MSCC (mg/kg)</b>			<u>763</u>	<u>1635</u>	<u>4088</u>	<u>20440</u>	<u>20440</u>	<u>200000</u>	<u>1635</u>	<u>1635</u>

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
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Table B-3  
Summary of Soil Sampling Results

Date 1/16/07

Incident Number and Name: Building AS-511 Area

Facility ID# V-002740

Analytical Method (e.g., VOC by EPA 8260) →			SVOC 8270	MADEP VPH	MADEP VPH	MADEP VPH	MADEP EPH	MADEP EPH	MADEP EPH
Sample ID	Contaminant of Concern →		Fluorene	C5-C8 VPH	C9-C12 VPH	C9-C10 VPH	C9-C18 EPH	C19-C36 EPH	C11-C22 EPH
	Date Collected (mm/dd/yy)	Sample Depth (ft bgs)							
AS511-TA-001L	8/11/2006	6.5	<0.379	<10	<10	<10	<10	<10	<10
AS511-TA-002DI	8/11/2006	6.5	<0.389	<10	<10	<10	<10	<10	<10
AS511-TA-003	8/11/2006	6.5	<0.413	<10	<10	<10	<10	<10	<10
AS511-TB-004L	8/11/2006	6.5	<0.375	<10	<b>220</b>	160	660	<50	100
AS511-TB-005SI	8/11/2006	6.5	0.584	28	<b>770</b>	840	<b>8900</b>	<200	1200
AS511-TB-006	8/11/2006	6.5	<0.340	<10	<10	<10	<10	12	<10
AS511-TC-007	8/11/2006	6.5	0.45	<10	<b>320</b>	330	<b>3700</b>	<200	790
AS511-TC-008	8/11/2006	6.5	<0.350	<10	20	<10	24	<10	<10
<b>Soil to Groundwater MSCC (mg/kg)</b>			<b>44</b>	<b>72</b>	<b>34</b>	<b>NE</b>	<b>3255</b>	<b>NE</b>	<b>NE</b>
<b>Residential MSCC (mg/kg)</b>			<i>620</i>	<i>939</i>	<i>469</i>	<i>NE</i>	<i>9386</i>	<i>93860</i>	<i>NE</i>
<b>Industrial/Commercial MSCC (mg/kg)</b>			<u>16400</u>	<u>24528</u>	<u>12264</u>	<u>NE</u>	<u>245280</u>	<u>NE</u>	<u>NE</u>

- Indicate method detection limit for contaminants when analyzed, but not detected (e.g., <1, 10, 42)
- List any contaminants detected above the method detection limit
- MSCC = maximum soil contamination concentration
- ft. BGS = feet below ground surface
- Results must be reported in mg/kg.
- mg/kg = milligrams per kilogram

## AS-511 PID Readings

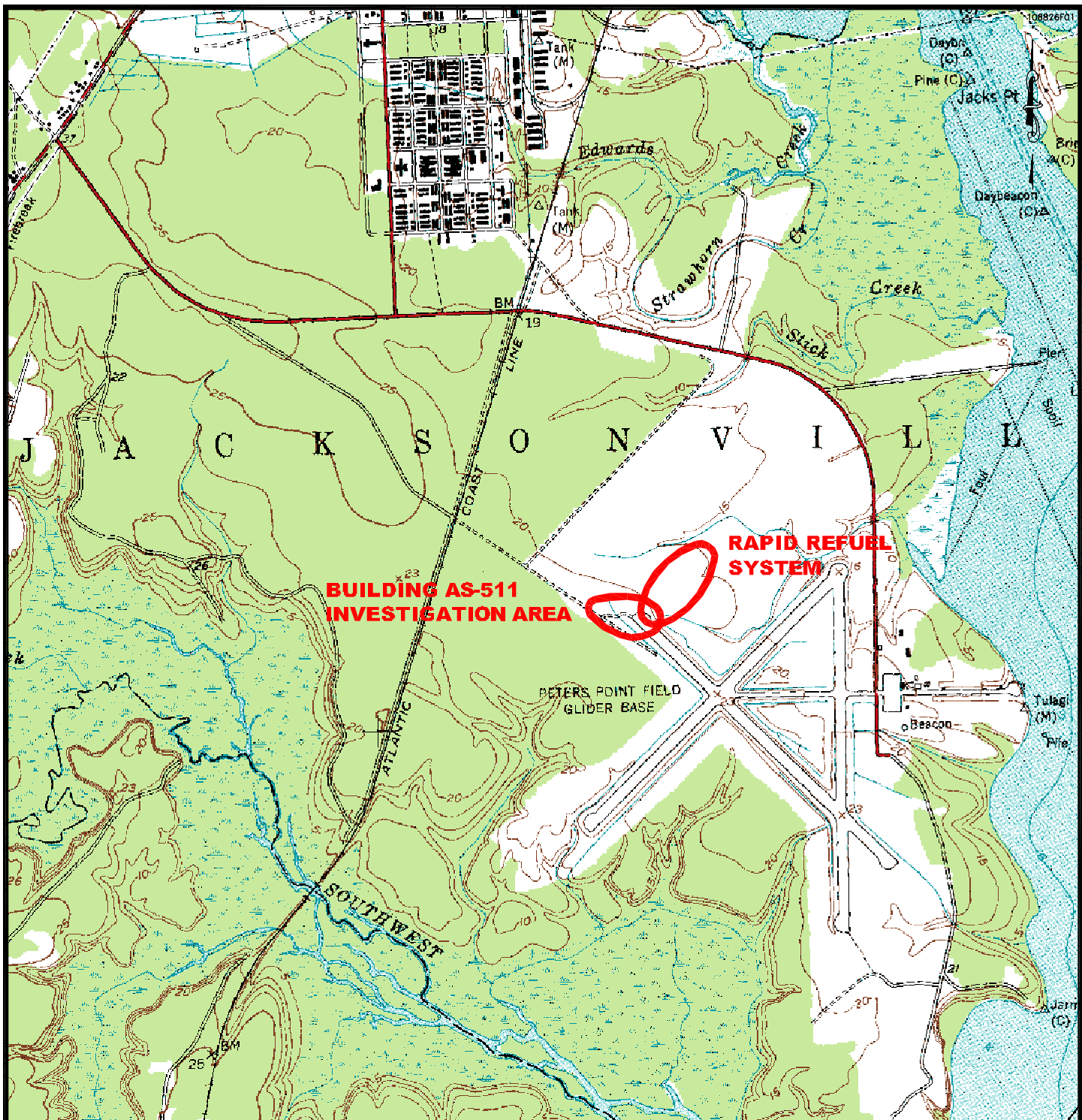
<u>Sample Point</u>	<u>Head Space PPM*</u>
AS-511-TA-001L	26 ppm
AS-511-TA-002DL	23 ppm
AS-511-TA-003	31 ppm
AS-511-TB-004L	780 ppm
AS-511-TB-005SL	182 ppm
AS-511-TB-006	136 ppm
AS-511-TC-007	270 ppm
AS-511-TC-008	28 ppm
AS-511-SP-009	38 ppm

\*All readings taken with a GasAlert Micro5 PID, serial # - SK-106-001271

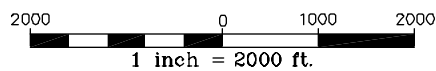
## **FIGURES**

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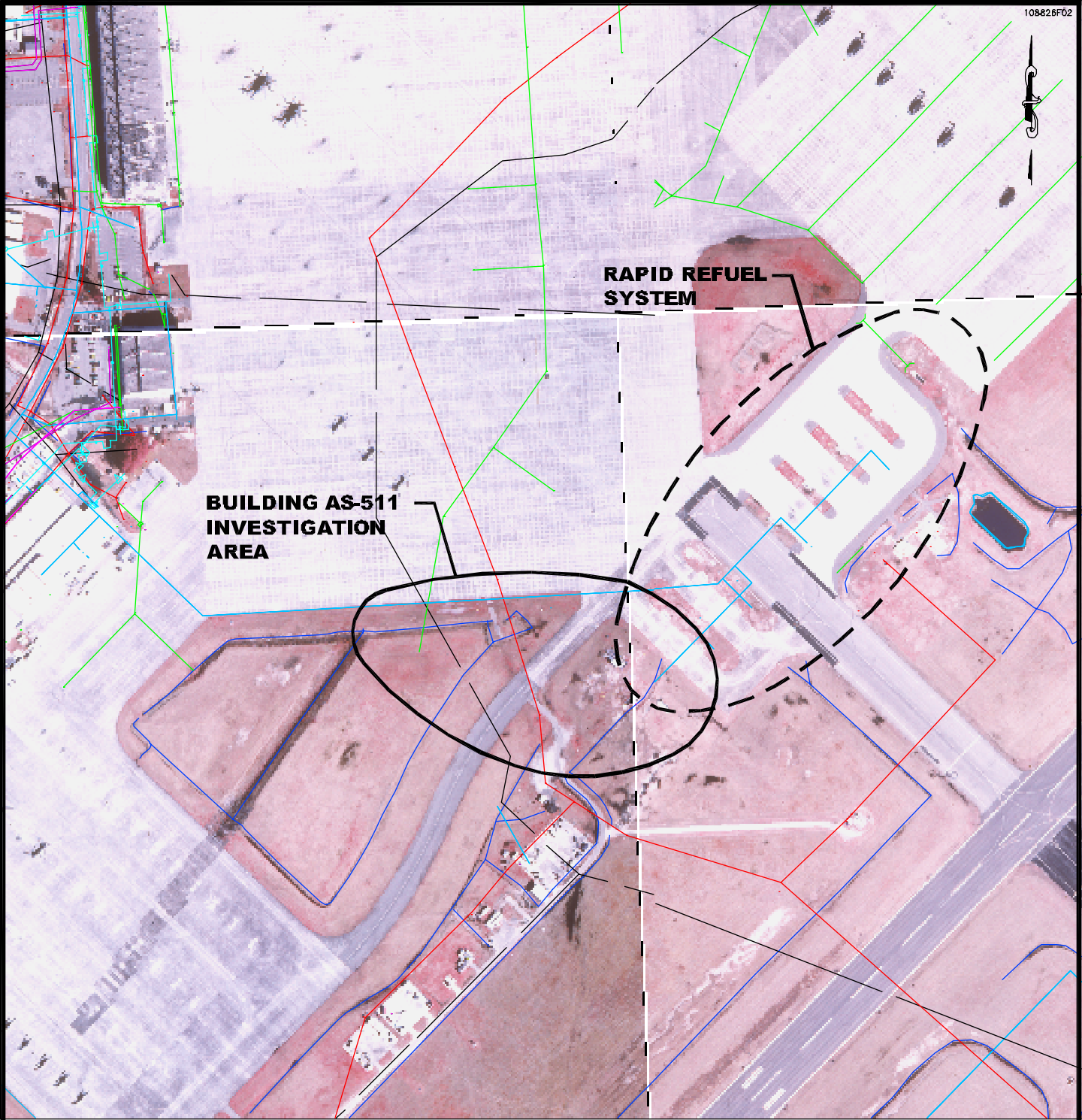


7.5 MIN. QUAD  
 JACKSONVILLE SOUTH, N.C.  
 1952  
 PHOTO INSPECTED 1988



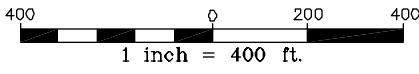
**Baker**  
 Michael Baker Jr., Inc.

FIGURE 1  
 SITE LOCATION MAP  
 BUILDING AS-511  
 RAPID REFUEL SYSTEM INVESTIGATION AREA  
 JANUARY 16, 2007  
 MARINE CORPS AIR STATION - NEW RIVER  
 ONSLOW COUNTY, NORTH CAROLINA



**RAPID REFUEL SYSTEM**

**BUILDING AS-511 INVESTIGATION AREA**



**LEGEND**

- DITCH
- STORM WATER LINE
- STORM PIPE
- ELECTRIC CABLE LINE
- WATER LINE
- WATER PIPE

**FIGURE 2**  
**SITE PLAN**  
**BUILDING AS-511**  
**RAPID REFUEL SYSTEM**  
**INVESTIGATION AREA**  
 MARINE CORPS AIR STATION – NEW RIVER  
 ONSLOW COUNTY, NORTH CAROLINA

**Appendix A:  
Final 2006 Annual Tank and Pipeline Integrity Testing  
Report (CDRL A001) for Four ASTs and 5,420 feet of  
JP-5 Pipeline**

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**FINAL 2006 ANNUAL TANK AND PIPELINE  
INTEGRITY TESTING REPORT (CDRL A001)  
FOR FOUR ASTs and 5,420 FEET OF JP-5  
PIPELINE**

*at*

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**MCAS NEW RIVER, NC**



**FINAL 2006 ANNUAL INTEGRITY TESTING (CDRL A001)  
OF ASTs (CSFF T1-T4), AND 5,420 FEET OF JP-5 PIPELINE  
at**

**MCAS NEW RIVER, NC**

*Prepared for:*

**Defense Energy Support Center  
Ft. Belvoir, VA**

*Prepared under:*

**AFCEE Contract FA8903-04-D-8684-0003  
Project Number: ENV-06-5**

*Prepared by:*

**Michael Baker Jr., Inc.  
Virginia Beach, Virginia**

**3 JANUARY 2007**

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## APPENDICES

APPENDIX A: TRACER TIGHT TEST REPORT

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**PROFESSIONAL ENGINEER CERTIFICATION:**  
**ANNUAL INTEGRITY TESTING (CDRL A001)**  
**OF AST (CSFF T1-T4), AND 5,420 FEET OF JP-5 PIPELINE**  
**MCAS NEW RIVER, NC**

This report has been reviewed by a professional engineer and has been prepared in accordance with good engineering practices. Laboratory results, field notes, and supporting data have been reviewed and referenced correctly.

I hereby certify that I have examined this report and attest that it has been prepared in accordance with good engineering practices.

Engineer: Christopher D. Caputi, P.E.

Registration Number: 032382

State: Virginia

Date: 3 January 2007



## EXECUTIVE SUMMARY

The scope of this project is to perform annual Tracer Tight integrity testing of four ASTs and 5,420 feet of JP-5 pipeline at the Campbell Street Fuel Farm (CSFF) at MCAS New River, NC. Integrity testing was performed on ASTs (CSFF T1-T4) and 5,420 feet of JP-5 pipeline from 10 October to 9 November 2006

The four ASTs, CSFF T1-T4 tested tight with *no detectable leaks* above the test method's minimum detectable leak rate of 0.05 gallons per hour. The 5,420 feet of JP-5 pipeline did *not test tight* with detectable leaks at five probe locations above the method's minimum detectable leak rate of 0.05 gallons per hour. The four ASTs, CSFF T1-T4 *passed* annual integrity testing. The JP-5 pipeline *failed* annual integrity testing.

The line was excavated from 24 to 26 November 2006, in the areas where the Tracer Tight integrity test indicated the line was leaking, the line was visually inspected and the leaks were located. A total of 120 feet of fiberglass piping was replaced from 27 November to 1 December 2006. The pipeline was pressure tested for eight hours to ensure integrity before it was placed back into service. A limited site assessment is to be performed as directed by the North Carolina Department of Environment and Natural Resources.

MCAS New River should continue to operate the ASTs at CSFF and JP-5 pipeline in accordance with all Federal, State, and local regulations. The ASTs at CSFF and JP-5 pipeline should be retested on/or before the test anniversary date of 10 October 2007.

## **1.0 INTRODUCTION**

### **1.1 Purpose of Project**

The Defense Energy Support Center contracted Michael Baker Jr., Inc. (Baker) through AFCEE Contract FA8903-04-D-8684-0003, Project Number ENV-06-5 to perform annual Tracer Tight integrity testing of four ASTs and 5,420 feet of JP-5 pipeline at the Campbell Street Fuel Farm (CSFF) at MCAS New River, NC.

### **1.2 Project Scope**

Integrity testing was performed on ASTs (CSFF T1-T4) and 5,420 feet of JP-5 pipeline from 10 October to 9 November 2006.

### **1.3 Project Team**

Baker subcontracted Praxair to perform the integrity testing. Field-testing oversight, coordination with activity fuels representatives, quality assurance/quality control (QA/QC), and final report preparation and submission was provided by Baker personnel.

### **1.4 Qualifications of Testing Procedures Used**

The testing procedures used were those defined as the Tracer Tight leak detection method. Determination of leakage is based on the criteria established in the Tracer Research third party evaluation.

## 2.0 INTEGRITY TESTING AND RESULTS

Specific test results and maps are provided in Appendix A. The four ASTs, CSFF T1-T4 tested tight with *no detectable leaks* above the test method's minimum detectable leak rate of 0.05 gallons per hour. The 5,420 feet of JP-5 pipeline did *not test tight* with detectable leaks at five probe locations, see table below, above the method's minimum detectable leak rate of 0.05 gallons per hour.

PROBE NO.	TRACER A CONCENTRATION( $\mu\text{g/L}$ )	TVHC CONCENTRATION( $\text{mg/L}$ )
184	0.236	0.710
185	0.198	0.000
196	0.282	71.070
200	2.147	53.040
201	0.260	50.960

## 3.0 CONCLUSIONS, CORRECTIVE ACTION, AND RECOMMENDATIONS

### 3.1 Conclusions

The four ASTs, CSFF T1-T4 *passed* annual integrity testing. The JP-5 pipeline *failed* annual integrity testing.

### 3.2 Corrective Action

The line was excavated from 24 to 26 November 2006, in the areas where the Tracer Tight integrity test indicated the line was leaking, the line was visually inspected and the leaks were located. A total of 120 feet of fiberglass piping was replaced from 27 November to 1 December 2006. The pipeline was pressure tested for eight hours to

ensure integrity before it was placed back into service. Appendix B provides photos of the pipe repair. A limited site assessment is to be performed as directed by the North Carolina Department of Environment and Natural Resources.

### **3.3 Recommendations**

MCAS New River should continue to operate the ASTs at CSFF and JP-5 pipeline in accordance with all Federal, State, and local regulations. The ASTs at CSFF and JP-5 pipeline should be retested on/or before the test anniversary date of 10 October 2007.

## **APPENDIX A: Tracer Tight Test Report**



3755 N. Business Center Drive  
Tucson, Arizona 85705  
Toll Free (800) 989-9929  
Tel: (520) 888-9400  
Fax: (520) 293-1306

## ***Tracer Tight® Leak Test***

Reported: **12-05-2006**  
2006 Annual Testing

CSFF (4) Aboveground Storage Tanks  
(5,420 feet) of Pipeline  
MCAS NEW RIVER  
JACKSONVILLE, NC

Praxair Job No. 23028B-AN06

### **Prepared for:**

Michael Baker, Jr. Inc.  
770 Lynn Haven Parkway  
Virginia Beach, VA 23452

Tel: (757) 631-5490  
Fax: (757) 463-1304

Attention: Chris Caputi

### **Base Contact:**

Camp LeJeune MCB  
I & E Department, EMD/EQB  
Post Lane, Bldg 12, Rm 233  
Camp LeJeune, NC 28542

Tel: (910) 451- 9660

Attention: Bruce Markwick

### **Submitted by:**

Praxair Services, Inc.  
Paul Burke - Project Manager

---

E-Mail: [Paul\\_Burke @ Praxair.com](mailto:Paul_Burke@Praxair.com)  
Website: <http://www.praxair.com/services>

#### **UCISCO.**

Industrial Gas Services  
Pipeline Services  
Mechanical Cleaning Services

#### **Tracer Research.**

Leak Detection Services  
Environmental Sampling Services

#### **Corrocon.**

Cathodic Protection Services  
Environmental Directional Drilling

**Inoculation Information:**

	<b>Inoculation:</b>	<b>Sampling:</b>
<b>Start Date:</b>	October 10, 2006	October 10, 2006
<b>Completion Date:</b>	October 12, 2006	November 9, 2006
	<b>Job Completion Date:</b>	<b>November 14, 2006</b>

Note: Background Samples were collected before the Inoculation Event.

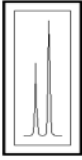
**Annual Testing Results:**

Facility:	System:	Type:	Volume:	Product:	Tracer:	Result:
CSFF	T1	AST	200,000 gal	JP-5 Fuel	A	Passed
CSFF	T2	AST	200,000 gal	JP-5 Fuel	A	Passed
CSFF	T3	AST	200,000 gal	JP-5 Fuel	A	Passed
CSFF	T4	AST	200,000 gal	JP-5 Fuel	A	Passed
Pipe	Pipe	PIPELINE	5,420 ft	JP-5 Fuel	A	<b>Failed</b>
<b>Facility: (Pipe) / System: (Pipe) Failed on the Significant Value of: [2.147] for Tracer [A] at the following Probes:</b>						
		<b>Probe:</b>	<b>A</b> (µg/L)	<b>TVHC</b> (mg/L)		
		184	0.236	0.710		
		185	0.198	0.000		
		196	0.282	71.070		
		200	2.147	53.040		
		201	0.260	50.960		

\*On November 25, 2006, the pipeline was excavated in the vicinity of Probe 184 and Probe 200. Fuel was observed leaking out of the pipeline at each location. The pipeline is currently undergoing repairs.

  
**Paul Burke - Project Manager**  
 Date: 12/01/2006

Praxair Services, Inc. hereby certifies that the above listed systems(s) have been tested by means of Tracer Tight®, which has been evaluated by a third party according to protocols issued and approved by the United States Environmental Protection Agency (EPA) as being able to detect a leak at a rate of 0.05 gallons per hour with a Probability of Detection (PD) of 0.97 and a Probability of False Alarm (PFA) of 0.029. If you have any questions or concerns, please call Praxair Services, Inc. at 800-989-9929 ext.236.



**Job No. 23028B-AN06      Date: 06-06-2006**  
**Camp LeJeune ANNUAL**

**Significant Data Report**

**Address: NHPWC-1;-2;120;H1,H4      USA**  
**City: JACKSONVILLE      State: NC      Zip:**

*System Number / Name:      Probe(s):      Collector:      Compound:      Concentration: (units):*

Source: DataTrace 2.0

**Fac: Pipe**

**MCASNR Hydrant Pipeline**

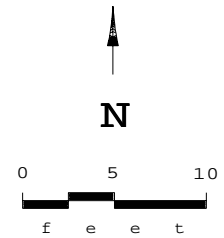
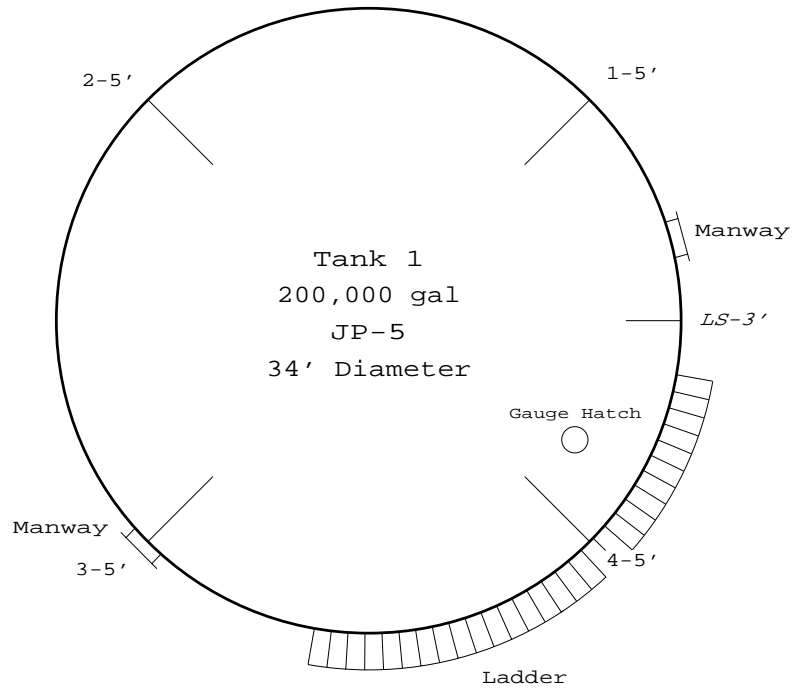
Pipe	Pipe	Tightness Test			Concentration	Units
	184	Individual	A	0.236	ug/L	
	185	Individual	A	0.198	ug/L	
	196	Individual	A	0.282	ug/L	
	200	Individual	A	2.147	ug/L	
	201	Individual	A	0.260	ug/L	

**E X P L A N A T I O N**

1-5'      Probe Number with Depth

———— Sampling Probe Location

LS-3'      Leak Simulation Probe



23028B-AN06

MCASNR Campbell Street Fuel Farm

C A M P   L E J E U N E

T a n k   N o .   1

J A C K S O N V I L L E ,   N O R T H   C A R O L I N A

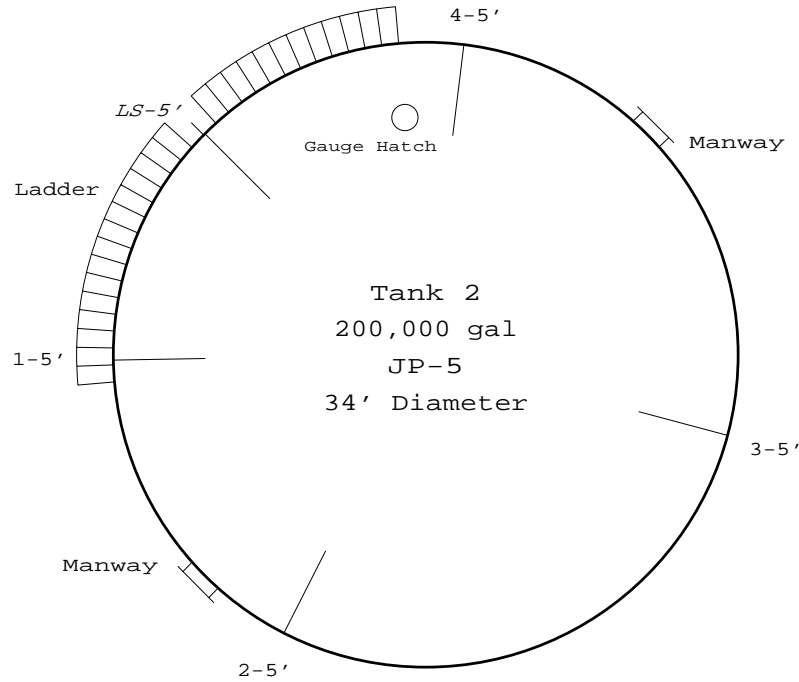
S A M P L I N G   L O C A T I O N S

**E X P L A N A T I O N**

1-5'      Probe Number with Depth

————— Sampling Probe Location

*LS-5'*      Leak Simulation Probe



**N**



23028B-AN06

MCASNR Campbell Street Fuel Farm

C A M P   L E J E U N E

T a n k   N o .   2

J A C K S O N V I L L E ,   N O R T H   C A R O L I N A

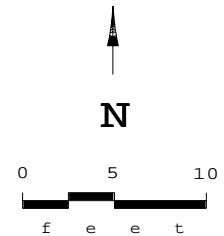
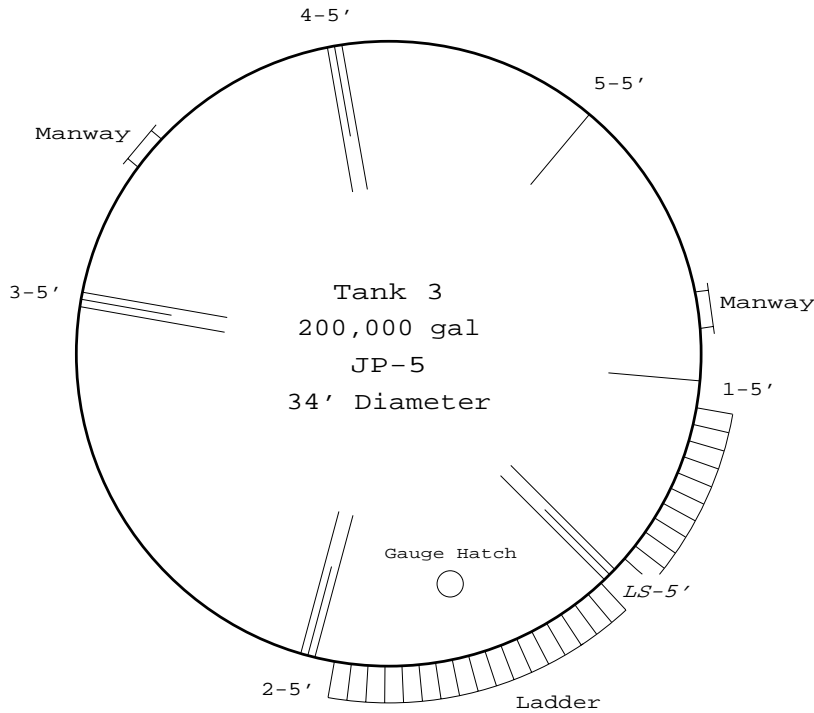
S A M P L I N G   L O C A T I O N S

**E X P L A N A T I O N**

1-5' Probe Number with Depth

———— Sampling Probe Location

LS-5' Leak Simulation Probe



23028B-AN06

MCASNR Campbell Street Fuel Farm

C A M P L E J E U N E

T a n k N o . 3

J A C K S O N V I L L E , N O R T H C A R O L I N A

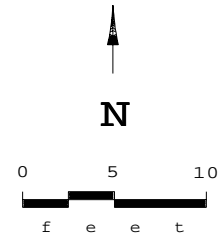
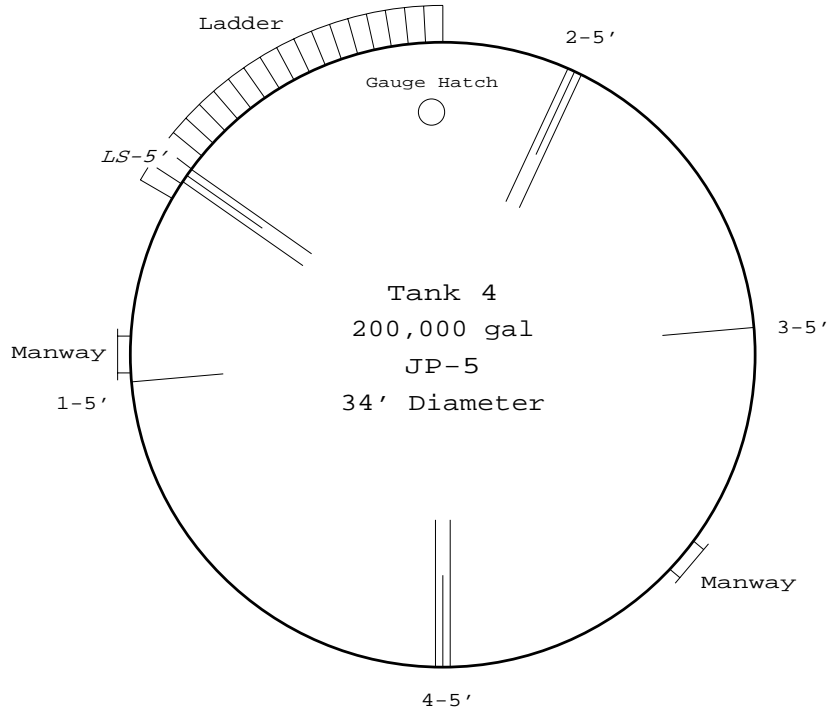
S A M P L I N G L O C A T I O N S

**E X P L A N A T I O N**

1-5' Probe Number with Depth

———— Sampling Probe Location

LS-3' Leak Simulation Probe



23028B-AN06

MCASNR Campbell Street Fuel Farm

C A M P   L E J E U N E

T a n k   N o .   4

J A C K S O N V I L L E ,   N O R T H   C A R O L I N A

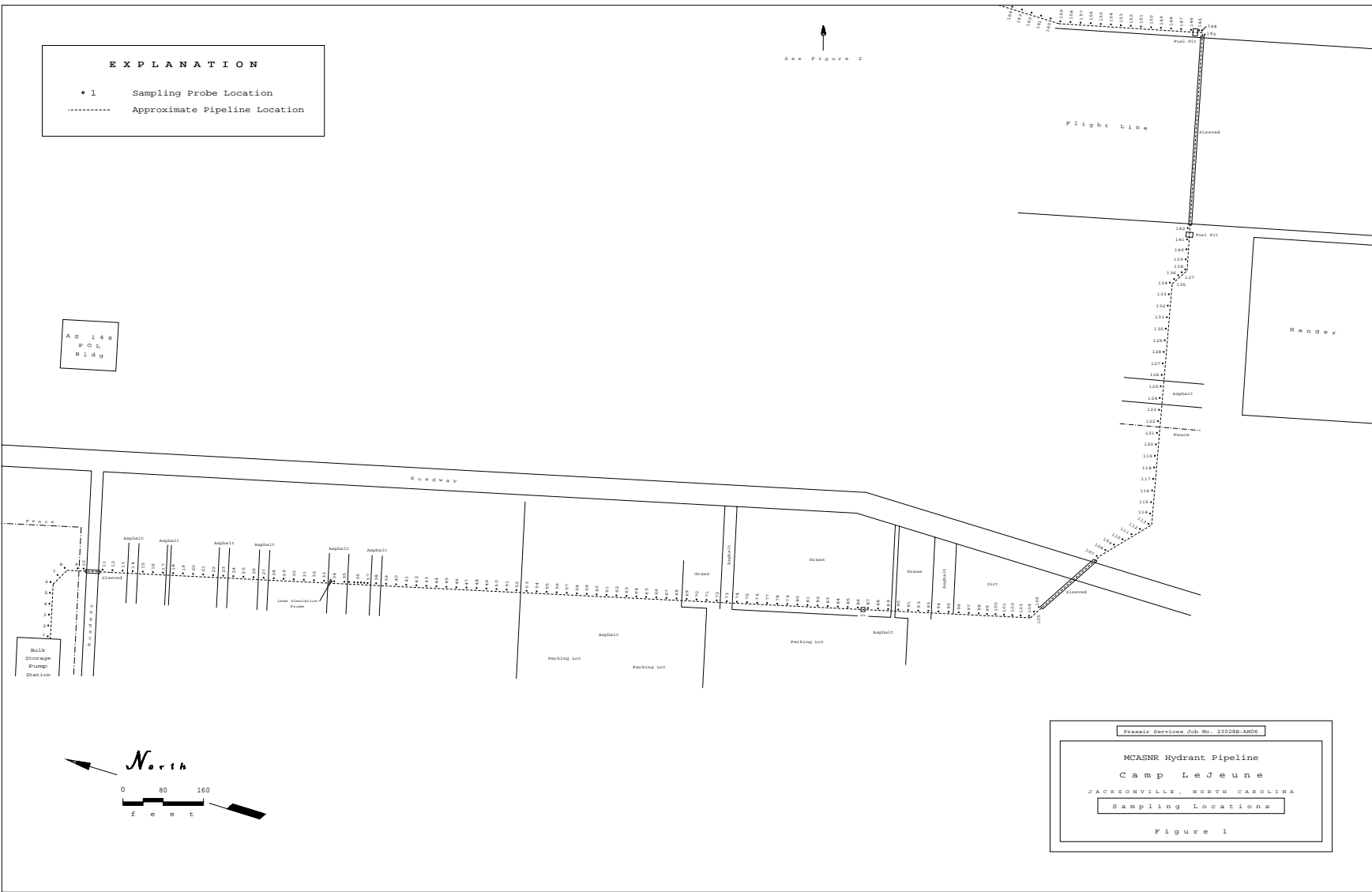
S A M P L I N G   L O C A T I O N S

**EXPLANATION**

- 1 Sampling Probe Location
- ..... Approximate Pipeline Location

See Figure 2

AS 148  
POL  
Bldg



Francis Services Job No. 23028-AM06

**MCASNR Hydrant Pipeline**  
**Camp LeJeune**  
 JACKSONVILLE, NORTH CAROLINA

Sampling Locations

Figure 1

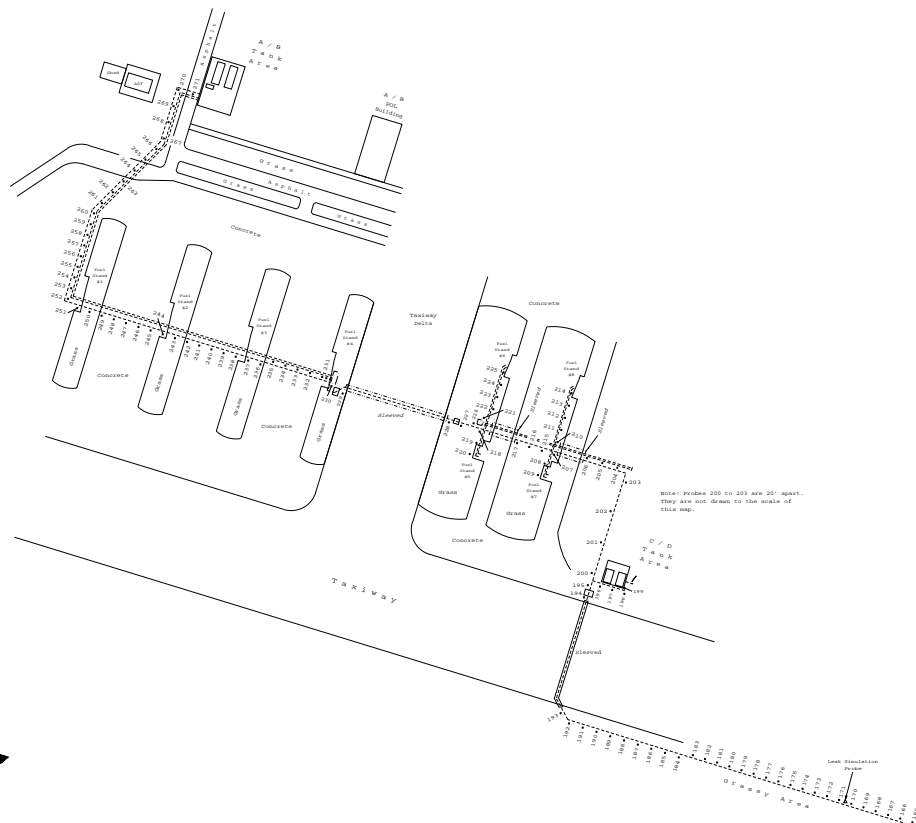
**E X P L A N A T I O N**

- 1 Sampling Probe Location
- ..... Approximate Pipeline Location
- Aboveground Pipeline

Franklin Services Job No. 230288-AH06

MCASNR Hydrant Pipeline  
 Camp LeJeune  
 JACKSONVILLE, NORTH CAROLINA  
 Sampling Locations

Figure 2



## **APPENDIX B: Photos of Pipe Repair**



**Leaks on pipe at tracer probes 184 & 185**



**Removed leaking pipe sections at tracer probe 184 & 185**



**New pipe sections at tracer probes 184 & 185**



**Backfilled pipe at tracer location 184 & 185**



**Expose pipe leak location at tracer probes 196, 200, & 201**



**Coupling between existing and new pipe sections**



**New pipe section at tracer probes 196, 200 & 201**



**Backfill at tracer probes 196, 200 & 201**

**Appendix B:**  
**Sample Location Map Sketches**

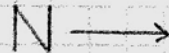
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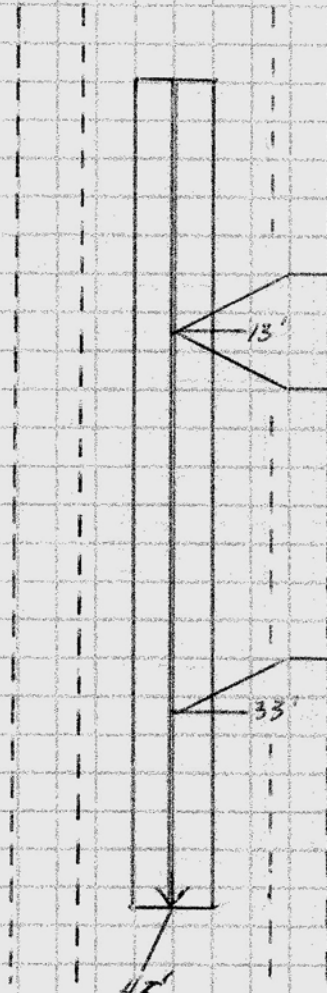
TRENCH "A"

11/27/06

RAPID TUEWELLER  
REPAIR/REMEDIATION



YARD  
HYDRANT



SAMPLE POINT  
TA001L

13'

SAMPLE POINT  
TA002DL

SAMPLE POINT  
TA003

33'

45'

TRENCH

FIRE  
HYDRANT



———— FUEL LINE

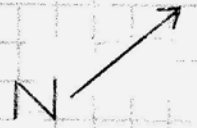
- - - - STEP SLOPING

==== DISTANCE MEASURED IN FEET

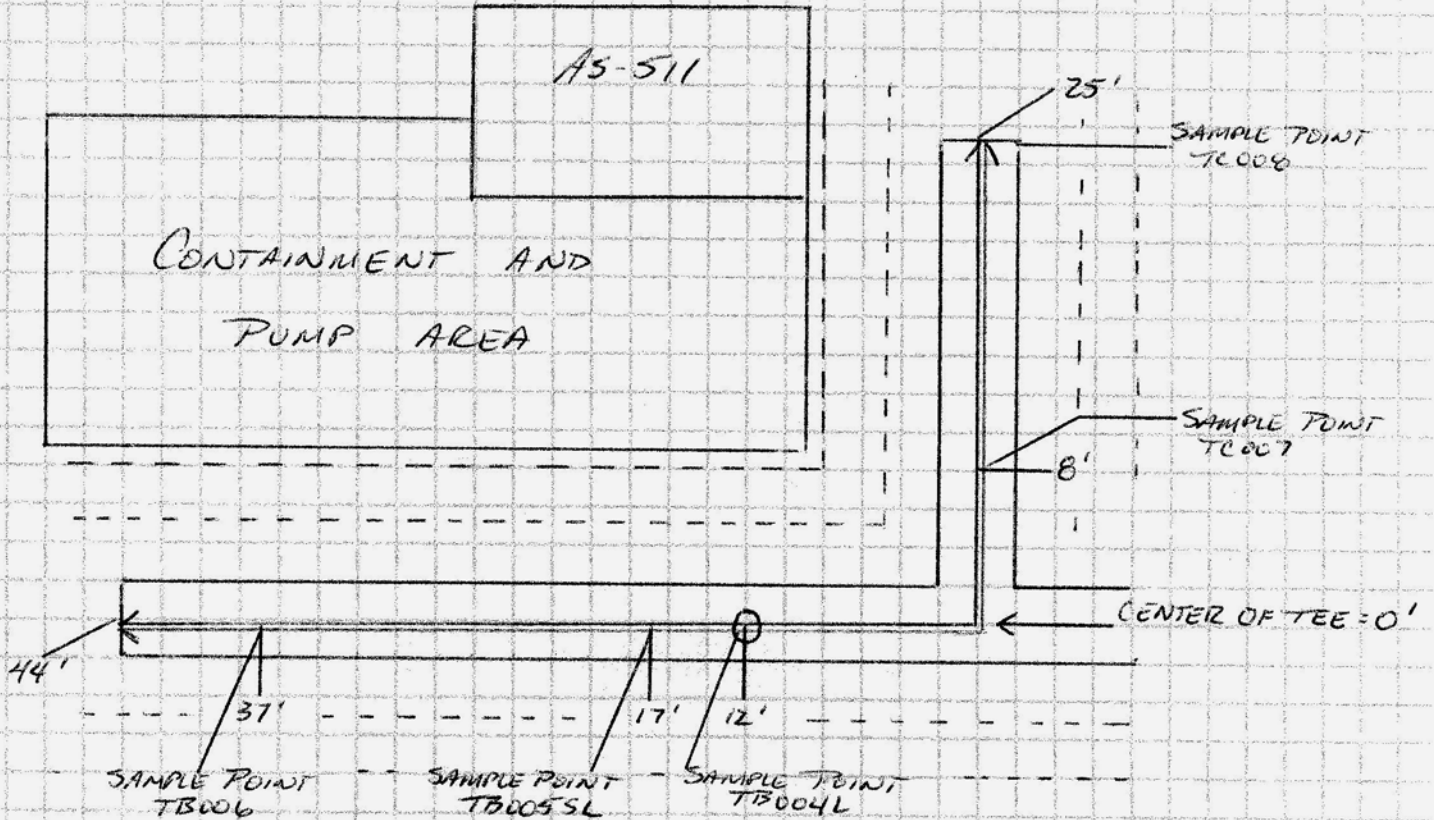
ALL SAMPLES TAKEN APPROXIMATELY 18" BELOW FUEL LINE

11/27/06

# RAPID REFUELER REPAIR/REMEDIATION



TRENCHES "B" AND "C"



○ = ORIGINAL COUPLING

— FUEL LINE

- - - STEP SLOPING

== DISTANCE MEASURED IN FEET

ALL SAMPLES TAKEN APPROXIMATELY 18" BELOW FUEL LINE

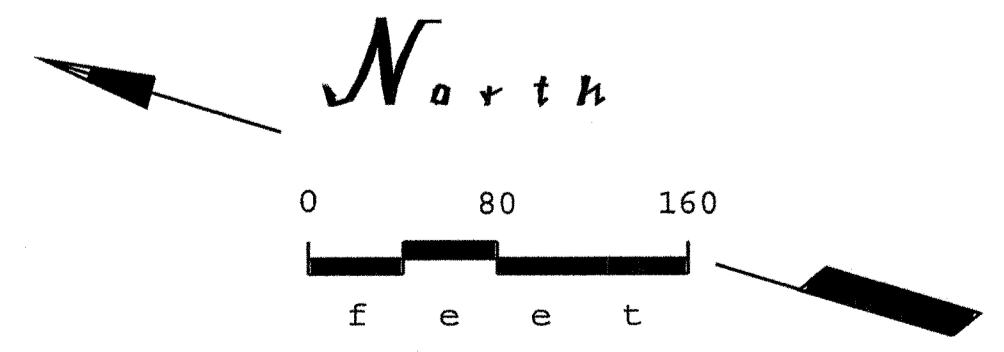
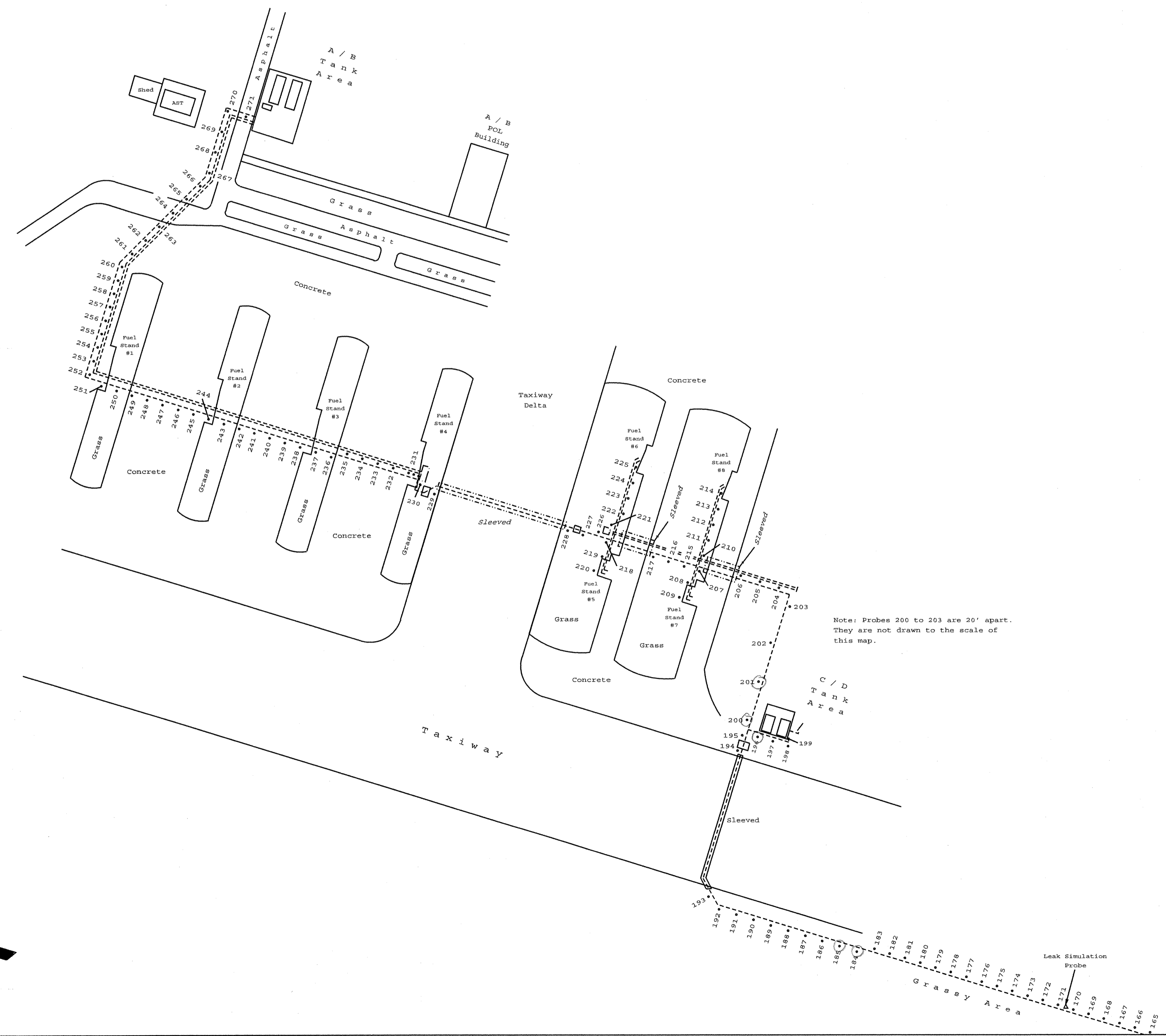
EXPLANATION

- 1 Sampling Probe Location
- Approximate Pipeline Location
- Aboveground Pipeline

Praxair Services Job No. 23028B-AN06

MCASNR Hydrant Pipeline  
Camp LeJeune  
JACKSONVILLE, NORTH CAROLINA  
Sampling Locations

Figure 2



See Figure 1



**Appendix C:**  
**24-Hour Release and UST Leak Reporting Form**

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## 24-Hour Release and UST Leak Reporting Form

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release.

(DWM USE ONLY) Incident # _____ Risk (H,I,L,U) _____ Received On _____ Received By _____ Reported by (circle one): Phone, Fax or Report Region _____	Suspected Contamination? (Y/N) <u>Y</u> Confirmed GW Contamination? (Y/N) <u>N</u> Confirmed Soil Contamination? (Y/N) <u>N</u> Free Product? (Y/N) <u>N</u> If Yes, State Greatest Thickness _____	Facility ID Number _____ Date Leak Discovered <u>11/15/2006</u> Comm/Non-Commercial? <u>Non-Commercial</u> Reg/Non-regulated? _____
--	---	--

### INCIDENT DESCRIPTION

Incident Name: Rapid Refueler Tracer Hits Along Pipeline

Address: Marine Corps Air Station New River County: Onslow

City/Town: Jacksonville Regional Office (circle one): Asheville, Mooresville, Fayetteville, Raleigh, Washington, Wilmington, Winston-Salem

Latitude (dd.mm.ssss): 34.42.39 Longitude (ddd.mm.ssss) : 77.26.46 Confirmed by GPS? (Y/N) N

Briefly describe suspected or confirmed release: (including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)

Five sample port sites failed during annual tracer testing of the MCAS New River Rapid Refueler JP-5 fuel distribution line. Line leaks do not appear to threaten water supply wells or surface waters. Soil contamination in areas of confirmed tracer hits range from 0mg/L up to 71mg/L. Fuel lines are being secured and system operation has been modified to prevent further release. Estimate has been requested for fuel line repairs.

### HOW RELEASE WAS DISCOVERED

(Check one)

<input checked="" type="checkbox"/> Release Detection Equipment or Methods <input type="checkbox"/> During UST Closure/Removal <input type="checkbox"/> Property Transfer	<input type="checkbox"/> Visual/Odor <input type="checkbox"/> Water in Tank <input type="checkbox"/> Water Supply Well Contamination	<input type="checkbox"/> Groundwater Contamination <input type="checkbox"/> Surface Water Contamination <input type="checkbox"/> Other (specify) _____
---	--	--

### SOURCE OF CONTAMINATION

Primary Source of Contamination <i>(Check one)</i>	Primary Contaminant Type <i>(Check one)</i>	Location <i>(Check one)</i>	Setting <i>(Check one)</i>
<input type="checkbox"/> Suspected UST Release <input checked="" type="checkbox"/> Confirmed UST Release (Also check one below): <input type="checkbox"/> A. Dispenser <input checked="" type="checkbox"/> B. Line Release <input type="checkbox"/> C. Tank Release <input type="checkbox"/> D. Spill/Overfill <input type="checkbox"/> E. Exact Failure Location Unknown or Multiple Failures <input type="checkbox"/> Unknown Source (Believed to be UST Source, explain in "Incident Description" above)	<input checked="" type="checkbox"/> Gasoline/Diesel/Kerosene <input type="checkbox"/> Heating Oil <input type="checkbox"/> Other Petroleum Products <input type="checkbox"/> Metals <input type="checkbox"/> Other Inorganics <input type="checkbox"/> Other Organics	<input checked="" type="checkbox"/> Facility <input type="checkbox"/> Residence <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Urban <input type="checkbox"/> Rural

**Ownership**  
 1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

**Operation Type**  
 1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining

## IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected?    1. Yes    2. No    3. Unknown

Number of Water Supply Wells Affected \_\_\_\_\_

Water Supply Wells Contaminated: *(Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary)*

- 1.
- 2.
- 3.

### UST SYSTEM OWNER

UST Owner/Company

Commanding Officer MCB Camp Lejeune

Point of Contact

MCB Camp Lejeune EMD

Address

Building 12 McHugh Blvd

City

Camp Lejeune

State

NC

Zip Code

28443

Telephone Number

910.451.5068

### UST SYSTEM OPERATOR

UST Operator/Company

MCAS New River Bulk Fuels

Address

AS148 White Street

City

Jacksonville

State

NC

Zip Code

28545

Telephone Number

910.451.9660

### LANDOWNER AT LOCATION OF UST INCIDENT

Landowner

Commanding Officer MCB Camp Lejeune

Address

Building 12 McHugh Blvd

City

Camp Lejeune

State

NC

Zip Code

28443

Telephone Number

910.451.5068

**Draw Sketch of Area (showing two major road intersections) or Attach Map**

Person Reporting Incident

Andrew Smith

Company

MCB Camp Lejeune EMD

Telephone Number

910.451.9017

Title

Environmental Engineer

Address

Building 12 McHugh Blvd

Date

11.16.2006

**Appendix D:**  
**Analytical Lab Reports**

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Mr. Randy Smith  
RES Environmental Corp.  
PO Box 8060  
Camp Lejeune NC 28547

Report Number: G663-17

Client Project: AS-511

Dear Mr. Smith:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
Laboratory Director  
J. Patrick Weaver

  
Date



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: AS511-SP-009  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-9  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected: 11/27/2006 12:15  
 Date Received: 11/27/2006  
 Matrix: Soil  
 Solids 92.69

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.16	5035	1	11/28/06
Diesel Range Organics	<b>94.5</b>	6.61	3541	1	11/28/06

Flags:



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: VBLK4112806  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 Solids 100.00

Analyte	Result mg/kg	RL mg/kg	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.00	5035	1	11/28/06



**QC Results for Total Petroleum Hydrocarbons  
by GC/FID**

Client Sample ID: Batch QC

Analyzed By: BWS

Lab Sample ID: G663-17-2F

Matrix: Soil

LCS ID: LCS4112806 / VP112806

Solids 80.30

**MS/MSD**

Analyte	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC % (70-130)	RPD %
GRO	BQL	54.5	46.7	85.7	54.5	43.7	80.2	6.63

**LCS**

Analyte	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
GRO	40	36	90.5	70	130

Comments:

Reviewed By: 



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB6772  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected:  
 Date Received:  
 Matrix: SOIL  
 Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	11/28/06



**QC Results for Total Petroleum Hydrocarbons**  
by GC/FID

Client Sample ID: Batch QC  
Lab Sample ID: G663-17-9D  
Batch ID: 6772

Analyzed By: BWS  
Matrix: Soil  
Solids 92.69

**MS/MSD**


Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	94.5	67.1	123	42.5	65.6	388	447	# 165

**LCS**

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	59.6	95.4	40	140

**Comments:**

# = Outside control limits due to non-homogeneous sample matrix.

Reviewed By: 



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-001L  
 Client Project ID: AS-511  
 Lab Sample ID G663-17-1B  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected: 11-27-2006 11:05  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 80.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	14.5	56.9	3.35	1	11/30/2006	J
Benzene	BQL	5.69	3.25	1	11/30/2006	
Bromobenzene	BQL	5.69	2.80	1	11/30/2006	
Bromochloromethane	BQL	5.69	3.33	1	11/30/2006	
Bromodichloromethane	BQL	5.69	3.23	1	11/30/2006	
Bromoform	BQL	5.69	2.76	1	11/30/2006	
Bromomethane	BQL	5.69	4.77	1	11/30/2006	
2-Butanone	BQL	28.5	3.28	1	11/30/2006	
n-Butylbenzene	BQL	5.69	3.81	1	11/30/2006	
sec-Butylbenzene	BQL	5.69	3.99	1	11/30/2006	
tert-Butylbenzene	BQL	5.69	3.95	1	11/30/2006	
Carbon disulfide	BQL	5.69	2.99	1	11/30/2006	
Carbon tetrachloride	BQL	5.69	3.94	1	11/30/2006	
Chlorobenzene	BQL	5.69	2.86	1	11/30/2006	
Chloroethane	BQL	5.69	3.58	1	11/30/2006	
Chloroform	BQL	5.69	2.86	1	11/30/2006	
Chloromethane	BQL	5.69	2.74	1	11/30/2006	
2-Chlorotoluene	BQL	5.69	3.39	1	11/30/2006	
4-Chlorotoluene	BQL	5.69	3.17	1	11/30/2006	
Dibromochloromethane	BQL	5.69	2.55	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.69	12.1	1	11/30/2006	
Dibromomethane	BQL	5.69	3.42	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	5.69	2.65	1	11/30/2006	
1,2-Dichlorobenzene	BQL	5.69	2.74	1	11/30/2006	
1,3-Dichlorobenzene	BQL	5.69	2.66	1	11/30/2006	
1,4-Dichlorobenzene	BQL	5.69	2.80	1	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	5.69	12.2	1	11/30/2006	
1,1-Dichloroethane	BQL	5.69	3.28	1	11/30/2006	
1,1-Dichloroethene	BQL	5.69	4.38	1	11/30/2006	
1,2-Dichloroethane	BQL	5.69	3.27	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	5.69	2.80	1	11/30/2006	
trans-1,2-dichloroethene	BQL	5.69	3.70	1	11/30/2006	
1,2-Dichloropropane	BQL	5.69	2.92	1	11/30/2006	
1,3-Dichloropropane	BQL	5.69	2.61	1	11/30/2006	
2,2-Dichloropropane	BQL	5.69	3.62	1	11/30/2006	
1,1-Dichloropropene	BQL	5.69	4.11	1	11/30/2006	
cis-1,3-Dichloropropene	BQL	5.69	3.17	1	11/30/2006	
trans-1,3-Dichloropropene	BQL	5.69	3.22	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.69	4.25	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	5.69	2.70	1	11/30/2006	
Ethylbenzene	BQL	5.69	3.46	1	11/30/2006	
Hexachlorobutadiene	BQL	5.69	4.50	1	11/30/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-001L  
 Client Project ID: AS-511  
 Lab Sample ID G663-17-1B  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected: 11-27-2006 11:05  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 80.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	5.69	2.48	1	11/30/2006	
Iodomethane	BQL	5.69	5.30	1	11/30/2006	
Isopropylbenzene	BQL	5.69	3.67	1	11/30/2006	
4-Isopropyltoluene	BQL	5.69	3.87	1	11/30/2006	
Methylene chloride	<b>9.53</b>	22.8	3.26	1	11/30/2006	J
4-Methyl-2-pentanone	BQL	5.69	2.63	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	5.69	2.89	1	11/30/2006	
Naphthalene	BQL	5.69	2.29	1	11/30/2006	
n-Propyl benzene	BQL	5.69	3.66	1	11/30/2006	
Styrene	BQL	5.69	4.08	1	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	5.69	3.10	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	5.69	2.80	1	11/30/2006	
Tetrachloroethene	BQL	5.69	3.59	1	11/30/2006	
Toluene	BQL	5.69	3.37	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	5.69	2.49	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	5.69	2.55	1	11/30/2006	
Trichloroethene	BQL	5.69	3.55	1	11/30/2006	
1,1,1-Trichloroethane	BQL	5.69	3.93	1	11/30/2006	
1,1,2-Trichloroethane	BQL	5.69	2.94	1	11/30/2006	
Trichlorofluoromethane	BQL	5.69	4.70	1	11/30/2006	
1,2,3-Trichloropropane	BQL	5.69	3.02	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	5.69	3.19	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	5.69	3.39	1	11/30/2006	
Vinyl chloride	BQL	5.69	3.76	1	11/30/2006	
m-,p-Xylene	BQL	11.4	6.46	1	11/30/2006	
o-Xylene	BQL	5.69	3.19	1	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	37.1	74		
1,2-Dichloroethane-d4		50	75.2	150		
Toluene-d8		50	47.3	95		

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By:



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-002DL  
 Client Project ID: AS-511  
 Lab Sample ID G663-17-2C  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected: 11-27-2006 11:09  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 80.3

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	15.5	50.5	2.97	1	12/1/2006	J
Benzene	BQL	5.05	2.88	1	12/1/2006	
Bromobenzene	BQL	5.05	2.48	1	12/1/2006	
Bromochloromethane	BQL	5.05	2.95	1	12/1/2006	
Bromodichloromethane	BQL	5.05	2.87	1	12/1/2006	
Bromoform	BQL	5.05	2.44	1	12/1/2006	
Bromomethane	BQL	5.05	4.23	1	12/1/2006	
2-Butanone	BQL	25.2	2.91	1	12/1/2006	
n-Butylbenzene	BQL	5.05	3.38	1	12/1/2006	
sec-Butylbenzene	BQL	5.05	3.53	1	12/1/2006	
tert-Butylbenzene	BQL	5.05	3.50	1	12/1/2006	
Carbon disulfide	BQL	5.05	2.65	1	12/1/2006	
Carbon tetrachloride	BQL	5.05	3.49	1	12/1/2006	
Chlorobenzene	BQL	5.05	2.53	1	12/1/2006	
Chloroethane	BQL	5.05	3.17	1	12/1/2006	
Chloroform	BQL	5.05	2.53	1	12/1/2006	
Chloromethane	BQL	5.05	2.43	1	12/1/2006	
2-Chlorotoluene	BQL	5.05	3.01	1	12/1/2006	
4-Chlorotoluene	BQL	5.05	2.81	1	12/1/2006	
Dibromochloromethane	BQL	5.05	2.26	1	12/1/2006	
1,2-Dibromo-3-chloropropane	BQL	5.05	10.7	1	12/1/2006	
Dibromomethane	BQL	5.05	3.03	1	12/1/2006	
1,2-Dibromoethane (EDB)	BQL	5.05	2.35	1	12/1/2006	
1,2-Dichlorobenzene	BQL	5.05	2.43	1	12/1/2006	
1,3-Dichlorobenzene	BQL	5.05	2.36	1	12/1/2006	
1,4-Dichlorobenzene	BQL	5.05	2.48	1	12/1/2006	
trans-1,4-Dichloro-2-butene	BQL	5.05	10.8	1	12/1/2006	
1,1-Dichloroethane	BQL	5.05	2.91	1	12/1/2006	
1,1-Dichloroethene	BQL	5.05	3.89	1	12/1/2006	
1,2-Dichloroethane	BQL	5.05	2.90	1	12/1/2006	
cis-1,2-Dichloroethene	BQL	5.05	2.48	1	12/1/2006	
trans-1,2-dichloroethene	BQL	5.05	3.28	1	12/1/2006	
1,2-Dichloropropane	BQL	5.05	2.58	1	12/1/2006	
1,3-Dichloropropane	BQL	5.05	2.31	1	12/1/2006	
2,2-Dichloropropane	BQL	5.05	3.21	1	12/1/2006	
1,1-Dichloropropene	BQL	5.05	3.64	1	12/1/2006	
cis-1,3-Dichloropropene	BQL	5.05	2.81	1	12/1/2006	
trans-1,3-Dichloropropene	BQL	5.05	2.86	1	12/1/2006	
Dichlorodifluoromethane	BQL	5.05	3.76	1	12/1/2006	
Diisopropyl ether (DIPE)	BQL	5.05	2.39	1	12/1/2006	
Ethylbenzene	BQL	5.05	3.07	1	12/1/2006	
Hexachlorobutadiene	BQL	5.05	3.99	1	12/1/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-002DL  
 Client Project ID: AS-511  
 Lab Sample ID G663-17-2C  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected: 11-27-2006 11:09  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 80.3

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	5.05	2.20	1	12/1/2006	
Iodomethane	BQL	5.05	4.69	1	12/1/2006	
Isopropylbenzene	BQL	5.05	3.25	1	12/1/2006	
4-Isopropyltoluene	BQL	5.05	3.43	1	12/1/2006	
Methylene chloride	<b>6.84</b>	20.2	2.89	1	12/1/2006	J
4-Methyl-2-pentanone	BQL	5.05	2.33	1	12/1/2006	
Methyl-tert-butyl ether (MTBE)	BQL	5.05	2.56	1	12/1/2006	
Naphthalene	BQL	5.05	2.03	1	12/1/2006	
n-Propyl benzene	BQL	5.05	3.24	1	12/1/2006	
Styrene	BQL	5.05	3.61	1	12/1/2006	
1,1,1,2-Tetrachloroethane	BQL	5.05	2.74	1	12/1/2006	
1,1,2,2-Tetrachloroethane	BQL	5.05	2.48	1	12/1/2006	
Tetrachloroethene	BQL	5.05	3.18	1	12/1/2006	
Toluene	BQL	5.05	2.99	1	12/1/2006	
1,2,3-Trichlorobenzene	BQL	5.05	2.21	1	12/1/2006	
1,2,4-Trichlorobenzene	BQL	5.05	2.26	1	12/1/2006	
Trichloroethene	BQL	5.05	3.15	1	12/1/2006	
1,1,1-Trichloroethane	BQL	5.05	3.48	1	12/1/2006	
1,1,2-Trichloroethane	BQL	5.05	2.60	1	12/1/2006	
Trichlorofluoromethane	BQL	5.05	4.17	1	12/1/2006	
1,2,3-Trichloropropane	BQL	5.05	2.67	1	12/1/2006	
1,2,4-Trimethylbenzene	BQL	5.05	2.83	1	12/1/2006	
1,3,5-Trimethylbenzene	BQL	5.05	3.01	1	12/1/2006	
Vinyl chloride	BQL	5.05	3.33	1	12/1/2006	
m-,p-Xylene	BQL	10.1	5.72	1	12/1/2006	
o-Xylene	BQL	5.05	2.83	1	12/1/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	35.4	71		
1,2-Dichloroethane-d4		50	75.1	150		
Toluene-d8		50	46.9	94		

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By:     *R*



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-003  
Client Project ID: AS-511  
Lab Sample ID G663-17-3B  
Lab Project ID: G663-17  
Report Basis: Dry Weight

Analyzed By: MJC  
Date Collected: 11-27-2006 11:12  
Date Received: 11/27/2006  
Matrix: Soil  
%Solids: 73.7

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	11.0	63.8	3.75	1	11/30/2006	J
Benzene	BQL	6.38	3.64	1	11/30/2006	
Bromobenzene	BQL	6.38	3.14	1	11/30/2006	
Bromochloromethane	BQL	6.38	3.73	1	11/30/2006	
Bromodichloromethane	BQL	6.38	3.62	1	11/30/2006	
Bromoform	BQL	6.38	3.09	1	11/30/2006	
Bromomethane	BQL	6.38	5.35	1	11/30/2006	
2-Butanone	BQL	31.9	3.68	1	11/30/2006	
n-Butylbenzene	BQL	6.38	4.27	1	11/30/2006	
sec-Butylbenzene	BQL	6.38	4.47	1	11/30/2006	
tert-Butylbenzene	BQL	6.38	4.43	1	11/30/2006	
Carbon disulfide	BQL	6.38	3.36	1	11/30/2006	
Carbon tetrachloride	BQL	6.38	4.42	1	11/30/2006	
Chlorobenzene	BQL	6.38	3.20	1	11/30/2006	
Chloroethane	BQL	6.38	4.01	1	11/30/2006	
Chloroform	23.1	6.38	3.20	1	11/30/2006	
Chloromethane	BQL	6.38	3.08	1	11/30/2006	
2-Chlorotoluene	BQL	6.38	3.80	1	11/30/2006	
4-Chlorotoluene	BQL	6.38	3.55	1	11/30/2006	
Dibromochloromethane	BQL	6.38	2.86	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	6.38	13.5	1	11/30/2006	
Dibromomethane	BQL	6.38	3.83	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	6.38	2.97	1	11/30/2006	
1,2-Dichlorobenzene	BQL	6.38	3.08	1	11/30/2006	
1,3-Dichlorobenzene	BQL	6.38	2.99	1	11/30/2006	
1,4-Dichlorobenzene	BQL	6.38	3.14	1	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	6.38	13.7	1	11/30/2006	
1,1-Dichloroethane	BQL	6.38	3.68	1	11/30/2006	
1,1-Dichloroethene	BQL	6.38	4.91	1	11/30/2006	
1,2-Dichloroethane	BQL	6.38	3.66	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	6.38	3.14	1	11/30/2006	
trans-1,2-dichloroethene	BQL	6.38	4.15	1	11/30/2006	
1,2-Dichloropropane	BQL	6.38	3.27	1	11/30/2006	
1,3-Dichloropropane	BQL	6.38	2.92	1	11/30/2006	
2,2-Dichloropropane	BQL	6.38	4.06	1	11/30/2006	
1,1-Dichloropropene	BQL	6.38	4.61	1	11/30/2006	
cis-1,3-Dichloropropene	BQL	6.38	3.55	1	11/30/2006	
trans-1,3-Dichloropropene	BQL	6.38	3.61	1	11/30/2006	
Dichlorodifluoromethane	BQL	6.38	4.76	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	6.38	3.02	1	11/30/2006	
Ethylbenzene	BQL	6.38	3.88	1	11/30/2006	
Hexachlorobutadiene	BQL	6.38	5.04	1	11/30/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TA-003  
Client Project ID: AS-511  
Lab Sample ID G663-17-3B  
Lab Project ID: G663-17  
Report Basis: Dry Weight

Analyzed By: MJC  
Date Collected: 11-27-2006 11:12  
Date Received: 11/27/2006  
Matrix: Soil  
%Solids: 73.7

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	6.38	2.78	1	11/30/2006	
Iodomethane	BQL	6.38	5.93	1	11/30/2006	
Isopropylbenzene	BQL	6.38	4.11	1	11/30/2006	
4-Isopropyltoluene	BQL	6.38	4.34	1	11/30/2006	
Methylene chloride	<b>15.6</b>	25.5	3.65	1	11/30/2006	J
4-Methyl-2-pentanone	BQL	6.38	2.95	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	6.38	3.24	1	11/30/2006	
Naphthalene	BQL	6.38	2.56	1	11/30/2006	
n-Propyl benzene	BQL	6.38	4.10	1	11/30/2006	
Styrene	BQL	6.38	4.57	1	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	6.38	3.47	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	6.38	3.14	1	11/30/2006	
Tetrachloroethene	BQL	6.38	4.02	1	11/30/2006	
Toluene	BQL	6.38	3.78	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	6.38	2.79	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	6.38	2.86	1	11/30/2006	
Trichloroethene	BQL	6.38	3.98	1	11/30/2006	
1,1,1-Trichloroethane	BQL	6.38	4.40	1	11/30/2006	
1,1,2-Trichloroethane	BQL	6.38	3.29	1	11/30/2006	
Trichlorofluoromethane	BQL	6.38	5.27	1	11/30/2006	
1,2,3-Trichloropropane	BQL	6.38	3.38	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	6.38	3.57	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	6.38	3.80	1	11/30/2006	
Vinyl chloride	BQL	6.38	4.21	1	11/30/2006	
m-,p-Xylene	BQL	12.8	7.24	1	11/30/2006	
o-Xylene	BQL	6.38	3.57	1	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	38.2	76		
1,2-Dichloroethane-d4		50	75.6	151		
Toluene-d8		50	47.9	96		

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By:



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TB-004L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-4E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:15  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 81.4

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	4760	641	200	11/30/2006	
Benzene	BQL	190	30.8	200	11/30/2006	
Bromobenzene	BQL	190	42.6	200	11/30/2006	
Bromochloromethane	BQL	190	59.4	200	11/30/2006	
Bromodichloromethane	BQL	190	35.2	200	11/30/2006	
Bromoform	BQL	190	18.3	200	11/30/2006	
Bromomethane	BQL	190	19.8	200	11/30/2006	
2-Butanone	BQL	4760	207	200	11/30/2006	
n-Butylbenzene	<b>2460</b>	190	51.7	200	11/30/2006	
sec-Butylbenzene	<b>1240</b>	190	44.7	200	11/30/2006	
tert-Butylbenzene	BQL	190	34.6	200	11/30/2006	
Carbon disulfide	BQL	190	39.2	200	11/30/2006	
Carbon tetrachloride	BQL	190	34.4	200	11/30/2006	
Chlorobenzene	BQL	190	33.7	200	11/30/2006	
Chloroethane	BQL	190	79.1	200	11/30/2006	
Chloroform	BQL	190	41.9	200	11/30/2006	
Chloromethane	BQL	190	53.6	200	11/30/2006	
2-Chlorotoluene	BQL	190	39.0	200	11/30/2006	
4-Chlorotoluene	BQL	190	39.2	200	11/30/2006	
Dibromochloromethane	BQL	190	39.6	200	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	951	371	200	11/30/2006	
Dibromomethane	BQL	190	52.3	200	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	190	50.2	200	11/30/2006	
1,2-Dichlorobenzene	BQL	190	36.1	200	11/30/2006	
1,3-Dichlorobenzene	BQL	190	44.5	200	11/30/2006	
1,4-Dichlorobenzene	BQL	190	34.6	200	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	951	270	200	11/30/2006	
1,1-Dichloroethane	BQL	190	40.9	200	11/30/2006	
1,1-Dichloroethene	BQL	190	31.2	200	11/30/2006	
1,2-Dichloroethane	BQL	190	46.4	200	11/30/2006	
cis-1,2-Dichloroethene	BQL	190	33.5	200	11/30/2006	
trans-1,2-dichloroethene	BQL	190	43.8	200	11/30/2006	
1,2-Dichloropropane	BQL	190	31.6	200	11/30/2006	
1,3-Dichloropropane	BQL	190	32.2	200	11/30/2006	
2,2-Dichloropropane	BQL	190	45.5	200	11/30/2006	
1,1-Dichloropropene	BQL	190	33.5	200	11/30/2006	
cis-1,3-Dichloropropene	BQL	190	38.4	200	11/30/2006	
trans-1,3-Dichloropropene	BQL	190	22.6	200	11/30/2006	
Dichlorodifluoromethane	BQL	951	73.2	200	11/30/2006	
Diisopropyl ether (DIPE)	BQL	190	44.7	200	11/30/2006	
Ethylbenzene	<b>97.0</b>	190	39.2	200	11/30/2006	J
Hexachlorobutadiene	BQL	190	77.8	200	11/30/2006	



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TB-004L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-4E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:15  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 81.4

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	951	166	200	11/30/2006	
Iodomethane	BQL	190	24.5	200	11/30/2006	
Isopropylbenzene	<b>242</b>	190	32.9	200	11/30/2006	
4-Isopropyltoluene	<b>887</b>	190	38.0	200	11/30/2006	
Methylene chloride	BQL	951	35.8	200	11/30/2006	
4-Methyl-2-pentanone	BQL	951	94.2	200	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	190	40.7	200	11/30/2006	
Naphthalene	<b>2970</b>	190	53.3	200	11/30/2006	
n-Propyl benzene	<b>715</b>	190	40.1	200	11/30/2006	
Styrene	BQL	190	45.5	200	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	190	54.8	200	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	190	48.7	200	11/30/2006	
Tetrachloroethene	BQL	190	57.8	200	11/30/2006	
Toluene	BQL	190	33.3	200	11/30/2006	
1,2,3-Trichlorobenzene	BQL	190	37.9	200	11/30/2006	
1,2,4-Trichlorobenzene	BQL	190	46.4	200	11/30/2006	
Trichloroethene	BQL	190	39.8	200	11/30/2006	
1,1,1-Trichloroethane	BQL	190	37.5	200	11/30/2006	
1,1,2-Trichloroethane	BQL	190	50.8	200	11/30/2006	
Trichlorofluoromethane	BQL	190	81.4	200	11/30/2006	
1,2,3-Trichloropropane	BQL	190	44.5	200	11/30/2006	
1,2,4-Trimethylbenzene	<b>5870</b>	190	38.0	200	11/30/2006	
1,3,5-Trimethylbenzene	<b>1320</b>	190	35.6	200	11/30/2006	
Vinyl chloride	BQL	190	76.1	200	11/30/2006	
m-,p-Xylene	BQL	380	73.4	200	11/30/2006	
o-Xylene	<b>394</b>	190	31.8	200	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		10	10.1	101		
1,2-Dichloroethane-d4		10	10.2	102		
Toluene-d8		10	9.97	100		

**Comments:****Flags:**Reviewed By:



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TB-005SL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-5E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:19  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 76.9

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	44900	6060	1600	11/30/2006	
Benzene	BQL	1800	291	1600	11/30/2006	
Bromobenzene	BQL	1800	403	1600	11/30/2006	
Bromochloromethane	BQL	1800	561	1600	11/30/2006	
Bromodichloromethane	BQL	1800	332	1600	11/30/2006	
Bromoform	BQL	1800	173	1600	11/30/2006	
Bromomethane	BQL	1800	187	1600	11/30/2006	
2-Butanone	BQL	44900	1960	1600	11/30/2006	
n-Butylbenzene	BQL	1800	489	1600	11/30/2006	
sec-Butylbenzene	<b>9180</b>	1800	422	1600	11/30/2006	
tert-Butylbenzene	BQL	1800	327	1600	11/30/2006	
Carbon disulfide	BQL	1800	370	1600	11/30/2006	
Carbon tetrachloride	BQL	1800	325	1600	11/30/2006	
Chlorobenzene	BQL	1800	318	1600	11/30/2006	
Chloroethane	BQL	1800	748	1600	11/30/2006	
Chloroform	BQL	1800	395	1600	11/30/2006	
Chloromethane	BQL	1800	507	1600	11/30/2006	
2-Chlorotoluene	BQL	1800	368	1600	11/30/2006	
4-Chlorotoluene	BQL	1800	370	1600	11/30/2006	
Dibromochloromethane	BQL	1800	374	1600	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	8980	3500	1600	11/30/2006	
Dibromomethane	BQL	1800	494	1600	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	1800	474	1600	11/30/2006	
1,2-Dichlorobenzene	BQL	1800	341	1600	11/30/2006	
1,3-Dichlorobenzene	BQL	1800	420	1600	11/30/2006	
1,4-Dichlorobenzene	BQL	1800	327	1600	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	8980	2550	1600	11/30/2006	
1,1-Dichloroethane	BQL	1800	386	1600	11/30/2006	
1,1-Dichloroethene	BQL	1800	295	1600	11/30/2006	
1,2-Dichloroethane	BQL	1800	438	1600	11/30/2006	
cis-1,2-Dichloroethene	BQL	1800	316	1600	11/30/2006	
trans-1,2-dichloroethene	BQL	1800	413	1600	11/30/2006	
1,2-Dichloropropane	BQL	1800	298	1600	11/30/2006	
1,3-Dichloropropane	BQL	1800	304	1600	11/30/2006	
2,2-Dichloropropane	BQL	1800	429	1600	11/30/2006	
1,1-Dichloropropene	BQL	1800	316	1600	11/30/2006	
cis-1,3-Dichloropropene	BQL	1800	363	1600	11/30/2006	
trans-1,3-Dichloropropene	BQL	1800	214	1600	11/30/2006	
Dichlorodifluoromethane	BQL	8980	692	1600	11/30/2006	
Diisopropyl ether (DIPE)	BQL	1800	422	1600	11/30/2006	
Ethylbenzene	<b>1130</b>	1800	370	1600	11/30/2006	J
Hexachlorobutadiene	BQL	1800	735	1600	11/30/2006	



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TB-005SL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-5E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:19  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 76.9

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	8980	1570	1600	11/30/2006	
Iodomethane	BQL	1800	232	1600	11/30/2006	
Isopropylbenzene	<b>2260</b>	1800	311	1600	11/30/2006	
4-Isopropyltoluene	<b>5840</b>	1800	359	1600	11/30/2006	
Methylene chloride	BQL	8980	338	1600	11/30/2006	
4-Methyl-2-pentanone	BQL	8980	890	1600	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	1800	385	1600	11/30/2006	
Naphthalene	<b>24000</b>	1800	503	1600	11/30/2006	
n-Propyl benzene	<b>6130</b>	1800	379	1600	11/30/2006	
Styrene	BQL	1800	429	1600	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	1800	518	1600	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	1800	460	1600	11/30/2006	
Tetrachloroethene	BQL	1800	546	1600	11/30/2006	
Toluene	BQL	1800	314	1600	11/30/2006	
1,2,3-Trichlorobenzene	BQL	1800	358	1600	11/30/2006	
1,2,4-Trichlorobenzene	BQL	1800	438	1600	11/30/2006	
Trichloroethene	BQL	1800	376	1600	11/30/2006	
1,1,1-Trichloroethane	BQL	1800	354	1600	11/30/2006	
1,1,2-Trichloroethane	BQL	1800	480	1600	11/30/2006	
Trichlorofluoromethane	BQL	1800	769	1600	11/30/2006	
1,2,3-Trichloropropane	BQL	1800	420	1600	11/30/2006	
1,2,4-Trimethylbenzene	<b>48400</b>	1800	359	1600	11/30/2006	
1,3,5-Trimethylbenzene	<b>10700</b>	1800	336	1600	11/30/2006	
Vinyl chloride	BQL	1800	719	1600	11/30/2006	
m-,p-Xylene	BQL	3590	694	1600	11/30/2006	
o-Xylene	<b>4420</b>	1800	300	1600	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		10	10.1	101		
1,2-Dichloroethane-d4		10	9.68	97		
Toluene-d8		10	9.95	99		

Comments:

Flags:

Reviewed By:     *CLP*



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TB-006  
Client Project ID: AS-511  
Lab Sample ID G663-17-6B  
Lab Project ID: G663-17  
Report Basis: Dry Weight

Analyzed By: MJC  
Date Collected: 11-27-2006 11:22  
Date Received: 11/27/2006  
Matrix: Soil  
%Solids: 87.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	37.7	45.0	2.65	1	11/30/2006	J
Benzene	BQL	4.50	2.56	1	11/30/2006	
Bromobenzene	BQL	4.50	2.21	1	11/30/2006	
Bromochloromethane	BQL	4.50	2.63	1	11/30/2006	
Bromodichloromethane	BQL	4.50	2.56	1	11/30/2006	
Bromoform	BQL	4.50	2.18	1	11/30/2006	
Bromomethane	BQL	4.50	3.77	1	11/30/2006	
2-Butanone	BQL	22.5	2.59	1	11/30/2006	
n-Butylbenzene	4.27	4.50	3.01	1	11/30/2006	J
sec-Butylbenzene	4.25	4.50	3.15	1	11/30/2006	J
tert-Butylbenzene	BQL	4.50	3.12	1	11/30/2006	
Carbon disulfide	BQL	4.50	2.37	1	11/30/2006	
Carbon tetrachloride	BQL	4.50	3.11	1	11/30/2006	
Chlorobenzene	BQL	4.50	2.26	1	11/30/2006	
Chloroethane	BQL	4.50	2.83	1	11/30/2006	
Chloroform	BQL	4.50	2.26	1	11/30/2006	
Chloromethane	BQL	4.50	2.17	1	11/30/2006	
2-Chlorotoluene	BQL	4.50	2.68	1	11/30/2006	
4-Chlorotoluene	BQL	4.50	2.50	1	11/30/2006	
Dibromochloromethane	BQL	4.50	2.02	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	4.50	9.54	1	11/30/2006	
Dibromomethane	BQL	4.50	2.70	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	4.50	2.10	1	11/30/2006	
1,2-Dichlorobenzene	BQL	4.50	2.17	1	11/30/2006	
1,3-Dichlorobenzene	BQL	4.50	2.11	1	11/30/2006	
1,4-Dichlorobenzene	BQL	4.50	2.21	1	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	4.50	9.63	1	11/30/2006	
1,1-Dichloroethane	BQL	4.50	2.59	1	11/30/2006	
1,1-Dichloroethene	BQL	4.50	3.46	1	11/30/2006	
1,2-Dichloroethane	BQL	4.50	2.58	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	4.50	2.21	1	11/30/2006	
trans-1,2-dichloroethene	BQL	4.50	2.92	1	11/30/2006	
1,2-Dichloropropane	BQL	4.50	2.30	1	11/30/2006	
1,3-Dichloropropane	BQL	4.50	2.06	1	11/30/2006	
2,2-Dichloropropane	BQL	4.50	2.86	1	11/30/2006	
1,1-Dichloropropene	BQL	4.50	3.25	1	11/30/2006	
cis-1,3-Dichloropropene	BQL	4.50	2.50	1	11/30/2006	
trans-1,3-Dichloropropene	BQL	4.50	2.55	1	11/30/2006	
Dichlorodifluoromethane	BQL	4.50	3.36	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	4.50	2.13	1	11/30/2006	
Ethylbenzene	BQL	4.50	2.74	1	11/30/2006	
Hexachlorobutadiene	BQL	4.50	3.55	1	11/30/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TB-006  
Client Project ID: AS-511  
Lab Sample ID G663-17-6B  
Lab Project ID: G663-17  
Report Basis: Dry Weight

Analyzed By: MJC  
Date Collected: 11-27-2006 11:22  
Date Received: 11/27/2006  
Matrix: Soil  
%Solids: 87.4

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	4.50	1.96	1	11/30/2006	
Iodomethane	BQL	4.50	4.18	1	11/30/2006	
Isopropylbenzene	BQL	4.50	2.90	1	11/30/2006	
4-Isopropyltoluene	BQL	4.50	3.06	1	11/30/2006	
Methylene chloride	<b>5.07</b>	18.0	2.57	1	11/30/2006	J
4-Methyl-2-pentanone	BQL	4.50	2.08	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	4.50	2.29	1	11/30/2006	
Naphthalene	<b>22.5</b>	4.50	1.81	1	11/30/2006	
n-Propyl benzene	BQL	4.50	2.89	1	11/30/2006	
Styrene	BQL	4.50	3.22	1	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	4.50	2.45	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	4.50	2.21	1	11/30/2006	
Tetrachloroethene	BQL	4.50	2.83	1	11/30/2006	
Toluene	BQL	4.50	2.66	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	4.50	1.97	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	4.50	2.02	1	11/30/2006	
Trichloroethene	BQL	4.50	2.81	1	11/30/2006	
1,1,1-Trichloroethane	BQL	4.50	3.10	1	11/30/2006	
1,1,2-Trichloroethane	BQL	4.50	2.32	1	11/30/2006	
Trichlorofluoromethane	BQL	4.50	3.72	1	11/30/2006	
1,2,3-Trichloropropane	BQL	4.50	2.38	1	11/30/2006	
1,2,4-Trimethylbenzene	<b>12.0</b>	4.50	2.52	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	4.50	2.68	1	11/30/2006	
Vinyl chloride	BQL	4.50	2.97	1	11/30/2006	
m-,p-Xylene	BQL	9.00	5.10	1	11/30/2006	
o-Xylene	BQL	4.50	2.52	1	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	33.7	67		
1,2-Dichloroethane-d4		50	75.4	151		
Toluene-d8		50	46.3	93		

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By:     *BJ*



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TC-007  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-7E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:30  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 86.4

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	33200	4480	1600	11/30/2006	
Benzene	BQL	1330	215	1600	11/30/2006	
Bromobenzene	BQL	1330	298	1600	11/30/2006	
Bromochloromethane	BQL	1330	414	1600	11/30/2006	
Bromodichloromethane	BQL	1330	246	1600	11/30/2006	
Bromoform	BQL	1330	128	1600	11/30/2006	
Bromomethane	BQL	1330	138	1600	11/30/2006	
2-Butanone	BQL	33200	1450	1600	11/30/2006	
n-Butylbenzene	<b>5540</b>	1330	361	1600	11/30/2006	
sec-Butylbenzene	<b>3930</b>	1330	312	1600	11/30/2006	
tert-Butylbenzene	BQL	1330	242	1600	11/30/2006	
Carbon disulfide	BQL	1330	274	1600	11/30/2006	
Carbon tetrachloride	BQL	1330	240	1600	11/30/2006	
Chlorobenzene	BQL	1330	235	1600	11/30/2006	
Chloroethane	BQL	1330	553	1600	11/30/2006	
Chloroform	BQL	1330	292	1600	11/30/2006	
Chloromethane	BQL	1330	375	1600	11/30/2006	
2-Chlorotoluene	BQL	1330	272	1600	11/30/2006	
4-Chlorotoluene	BQL	1330	274	1600	11/30/2006	
Dibromochloromethane	BQL	1330	276	1600	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	6640	2590	1600	11/30/2006	
Dibromomethane	BQL	1330	365	1600	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	1330	351	1600	11/30/2006	
1,2-Dichlorobenzene	BQL	1330	252	1600	11/30/2006	
1,3-Dichlorobenzene	BQL	1330	311	1600	11/30/2006	
1,4-Dichlorobenzene	BQL	1330	242	1600	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	6640	1890	1600	11/30/2006	
1,1-Dichloroethane	BQL	1330	286	1600	11/30/2006	
1,1-Dichloroethene	BQL	1330	218	1600	11/30/2006	
1,2-Dichloroethane	BQL	1330	324	1600	11/30/2006	
cis-1,2-Dichloroethene	BQL	1330	234	1600	11/30/2006	
trans-1,2-dichloroethene	BQL	1330	306	1600	11/30/2006	
1,2-Dichloropropane	BQL	1330	220	1600	11/30/2006	
1,3-Dichloropropane	BQL	1330	224	1600	11/30/2006	
2,2-Dichloropropane	BQL	1330	317	1600	11/30/2006	
1,1-Dichloropropene	BQL	1330	234	1600	11/30/2006	
cis-1,3-Dichloropropene	BQL	1330	268	1600	11/30/2006	
trans-1,3-Dichloropropene	BQL	1330	158	1600	11/30/2006	
Dichlorodifluoromethane	BQL	6640	511	1600	11/30/2006	
Diisopropyl ether (DIPE)	BQL	1330	312	1600	11/30/2006	
Ethylbenzene	BQL	1330	274	1600	11/30/2006	
Hexachlorobutadiene	BQL	1330	543	1600	11/30/2006	



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: AS511-TC-007  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-7E  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected: 11/27/2006 11:30  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 86.4

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	6640	1160	1600	11/30/2006	
Iodomethane	BQL	1330	171	1600	11/30/2006	
Isopropylbenzene	717	1330	230	1600	11/30/2006	J
4-Isopropyltoluene	1610	1330	266	1600	11/30/2006	
Methylene chloride	BQL	6640	250	1600	11/30/2006	
4-Methyl-2-pentanone	BQL	6640	658	1600	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	1330	284	1600	11/30/2006	
Naphthalene	10700	1330	372	1600	11/30/2006	
n-Propyl benzene	1910	1330	280	1600	11/30/2006	
Styrene	BQL	1330	317	1600	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	1330	383	1600	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	1330	340	1600	11/30/2006	
Tetrachloroethene	BQL	1330	404	1600	11/30/2006	
Toluene	BQL	1330	232	1600	11/30/2006	
1,2,3-Trichlorobenzene	BQL	1330	264	1600	11/30/2006	
1,2,4-Trichlorobenzene	BQL	1330	324	1600	11/30/2006	
Trichloroethene	BQL	1330	278	1600	11/30/2006	
1,1,1-Trichloroethane	BQL	1330	262	1600	11/30/2006	
1,1,2-Trichloroethane	BQL	1330	355	1600	11/30/2006	
Trichlorofluoromethane	BQL	1330	569	1600	11/30/2006	
1,2,3-Trichloropropane	BQL	1330	311	1600	11/30/2006	
1,2,4-Trimethylbenzene	624	1330	266	1600	11/30/2006	J
1,3,5-Trimethylbenzene	BQL	1330	248	1600	11/30/2006	
Vinyl chloride	BQL	1330	531	1600	11/30/2006	
m-,p-Xylene	BQL	2660	513	1600	11/30/2006	
o-Xylene	BQL	1330	222	1600	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		10	10.4	104		
1,2-Dichloroethane-d4		10	9.74	97		
Toluene-d8		10	9.86	99		

Comments:

Flags:

Reviewed By:



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TC-008  
Client Project ID: AS-511  
Lab Sample ID G663-17-8B  
Lab Project ID: G663-17  
Report Basis: Dry Weight

Analyzed By: MJC  
Date Collected: 11-27-2006 11:40  
Date Received: 11/27/2006  
Matrix: Soil  
%Solids: 87.9

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	<b>6.87</b>	87.8	5.16	1	11/30/2006	J
Benzene	BQL	8.78	5.00	1	11/30/2006	
Bromobenzene	BQL	8.78	4.32	1	11/30/2006	
Bromochloromethane	BQL	8.78	5.13	1	11/30/2006	
Bromodichloromethane	BQL	8.78	4.99	1	11/30/2006	
Bromoform	BQL	8.78	4.25	1	11/30/2006	
Bromomethane	BQL	8.78	7.36	1	11/30/2006	
2-Butanone	BQL	43.9	5.06	1	11/30/2006	
n-Butylbenzene	BQL	8.78	5.88	1	11/30/2006	
sec-Butylbenzene	BQL	8.78	6.15	1	11/30/2006	
tert-Butylbenzene	BQL	8.78	6.09	1	11/30/2006	
Carbon disulfide	<b>25.6</b>	8.78	4.62	1	11/30/2006	
Carbon tetrachloride	BQL	8.78	6.08	1	11/30/2006	
Chlorobenzene	BQL	8.78	4.41	1	11/30/2006	
Chloroethane	BQL	8.78	5.51	1	11/30/2006	
Chloroform	BQL	8.78	4.41	1	11/30/2006	
Chloromethane	BQL	8.78	4.23	1	11/30/2006	
2-Chlorotoluene	BQL	8.78	5.23	1	11/30/2006	
4-Chlorotoluene	BQL	8.78	4.88	1	11/30/2006	
Dibromochloromethane	BQL	8.78	3.93	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	8.78	18.6	1	11/30/2006	
Dibromomethane	BQL	8.78	5.27	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	8.78	4.09	1	11/30/2006	
1,2-Dichlorobenzene	BQL	8.78	4.23	1	11/30/2006	
1,3-Dichlorobenzene	BQL	8.78	4.11	1	11/30/2006	
1,4-Dichlorobenzene	BQL	8.78	4.32	1	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	8.78	18.8	1	11/30/2006	
1,1-Dichloroethane	BQL	8.78	5.06	1	11/30/2006	
1,1-Dichloroethene	BQL	8.78	6.76	1	11/30/2006	
1,2-Dichloroethane	BQL	8.78	5.04	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	8.78	4.32	1	11/30/2006	
trans-1,2-dichloroethene	BQL	8.78	5.71	1	11/30/2006	
1,2-Dichloropropane	BQL	8.78	4.49	1	11/30/2006	
1,3-Dichloropropane	BQL	8.78	4.02	1	11/30/2006	
2,2-Dichloropropane	BQL	8.78	5.58	1	11/30/2006	
1,1-Dichloropropene	BQL	8.78	6.34	1	11/30/2006	
cis-1,3-Dichloropropene	BQL	8.78	4.88	1	11/30/2006	
trans-1,3-Dichloropropene	BQL	8.78	4.97	1	11/30/2006	
Dichlorodifluoromethane	BQL	8.78	6.55	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	8.78	4.16	1	11/30/2006	
Ethylbenzene	<b>10.4</b>	8.78	5.34	1	11/30/2006	
Hexachlorobutadiene	BQL	8.78	6.94	1	11/30/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: AS511-TC-008  
 Client Project ID: AS-511  
 Lab Sample ID G663-17-8B  
 Lab Project ID: G663-17  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected: 11-27-2006 11:40  
 Date Received: 11/27/2006  
 Matrix: Soil  
 %Solids: 87.9

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	8.78	3.83	1	11/30/2006	
Iodomethane	BQL	8.78	8.16	1	11/30/2006	
Isopropylbenzene	<b>9.80</b>	8.78	5.65	1	11/30/2006	
4-Isopropyltoluene	BQL	8.78	5.97	1	11/30/2006	
Methylene chloride	<b>23.1</b>	35.1	5.02	1	11/30/2006	J
4-Methyl-2-pentanone	BQL	8.78	4.06	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	8.78	4.46	1	11/30/2006	
Naphthalene	<b>157</b>	8.78	3.53	1	11/30/2006	
n-Propyl benzene	<b>37.2</b>	8.78	5.64	1	11/30/2006	
Styrene	BQL	8.78	6.29	1	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	8.78	4.78	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	8.78	4.32	1	11/30/2006	
Tetrachloroethene	BQL	8.78	5.53	1	11/30/2006	
Toluene	BQL	8.78	5.20	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	8.78	3.85	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	8.78	3.93	1	11/30/2006	
Trichloroethene	BQL	8.78	5.48	1	11/30/2006	
1,1,1-Trichloroethane	BQL	8.78	6.06	1	11/30/2006	
1,1,2-Trichloroethane	BQL	8.78	4.53	1	11/30/2006	
Trichlorofluoromethane	BQL	8.78	7.25	1	11/30/2006	
1,2,3-Trichloropropane	BQL	8.78	4.65	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	8.78	4.92	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	8.78	5.23	1	11/30/2006	
Vinyl chloride	BQL	8.78	5.79	1	11/30/2006	
m-,p-Xylene	BQL	17.6	9.96	1	11/30/2006	
o-Xylene	BQL	8.78	4.92	1	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	48.4	97		
1,2-Dichloroethane-d4		50	73.1	146		
Toluene-d8		50	47.9	96		

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By:



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID VBLK9120106B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	50.0	2.94	1	12/1/2006	
Benzene	BQL	5.00	2.85	1	12/1/2006	
Bromobenzene	BQL	5.00	2.46	1	12/1/2006	
Bromochloromethane	BQL	5.00	2.92	1	12/1/2006	
Bromodichloromethane	BQL	5.00	2.84	1	12/1/2006	
Bromoform	BQL	5.00	2.42	1	12/1/2006	
Bromomethane	BQL	5.00	4.19	1	12/1/2006	
2-Butanone	BQL	25.0	2.88	1	12/1/2006	
n-Butylbenzene	BQL	5.00	3.35	1	12/1/2006	
sec-Butylbenzene	BQL	5.00	3.50	1	12/1/2006	
tert-Butylbenzene	BQL	5.00	3.47	1	12/1/2006	
Carbon disulfide	BQL	5.00	2.63	1	12/1/2006	
Carbon tetrachloride	BQL	5.00	3.46	1	12/1/2006	
Chlorobenzene	BQL	5.00	2.51	1	12/1/2006	
Chloroethane	BQL	5.00	3.14	1	12/1/2006	
Chloroform	BQL	5.00	2.51	1	12/1/2006	
Chloromethane	BQL	5.00	2.41	1	12/1/2006	
2-Chlorotoluene	BQL	5.00	2.98	1	12/1/2006	
4-Chlorotoluene	BQL	5.00	2.78	1	12/1/2006	
Dibromochloromethane	BQL	5.00	2.24	1	12/1/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	10.6	1	12/1/2006	
Dibromomethane	BQL	5.00	3.00	1	12/1/2006	
1,2-Dibromoethane (EDB)	BQL	5.00	2.33	1	12/1/2006	
1,2-Dichlorobenzene	BQL	5.00	2.41	1	12/1/2006	
1,3-Dichlorobenzene	BQL	5.00	2.34	1	12/1/2006	
1,4-Dichlorobenzene	BQL	5.00	2.46	1	12/1/2006	
trans-1,4-Dichloro-2-butene	BQL	5.00	10.7	1	12/1/2006	
1,1-Dichloroethane	BQL	5.00	2.88	1	12/1/2006	
1,1-Dichloroethene	BQL	5.00	3.85	1	12/1/2006	
1,2-Dichloroethane	BQL	5.00	2.87	1	12/1/2006	
cis-1,2-Dichloroethene	BQL	5.00	2.46	1	12/1/2006	
trans-1,2-dichloroethene	BQL	5.00	3.25	1	12/1/2006	
1,2-Dichloropropane	BQL	5.00	2.56	1	12/1/2006	
1,3-Dichloropropane	BQL	5.00	2.29	1	12/1/2006	
2,2-Dichloropropane	BQL	5.00	3.18	1	12/1/2006	
1,1-Dichloropropene	BQL	5.00	3.61	1	12/1/2006	
cis-1,3-Dichloropropene	BQL	5.00	2.78	1	12/1/2006	
trans-1,3-Dichloropropene	BQL	5.00	2.83	1	12/1/2006	
Dichlorodifluoromethane	BQL	5.00	3.73	1	12/1/2006	
Diisopropyl ether (DIPE)	BQL	5.00	2.37	1	12/1/2006	
Ethylbenzene	BQL	5.00	3.04	1	12/1/2006	
Hexachlorobutadiene	BQL	5.00	3.95	1	12/1/2006	


**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID VBLK9120106B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	5.00	2.18	1	12/1/2006	
Iodomethane	BQL	5.00	4.65	1	12/1/2006	
Isopropylbenzene	BQL	5.00	3.22	1	12/1/2006	
4-Isopropyltoluene	BQL	5.00	3.40	1	12/1/2006	
Methylene chloride	BQL	20.0	2.86	1	12/1/2006	
4-Methyl-2-pentanone	BQL	5.00	2.31	1	12/1/2006	
Methyl-tert-butyl ether (MTBE)	BQL	5.00	2.54	1	12/1/2006	
Naphthalene	BQL	5.00	2.01	1	12/1/2006	
n-Propyl benzene	BQL	5.00	3.21	1	12/1/2006	
Styrene	BQL	5.00	3.58	1	12/1/2006	
1,1,1,2-Tetrachloroethane	BQL	5.00	2.72	1	12/1/2006	
1,1,2,2-Tetrachloroethane	BQL	5.00	2.46	1	12/1/2006	
Tetrachloroethene	BQL	5.00	3.15	1	12/1/2006	
Toluene	BQL	5.00	2.96	1	12/1/2006	
1,2,3-Trichlorobenzene	BQL	5.00	2.19	1	12/1/2006	
1,2,4-Trichlorobenzene	BQL	5.00	2.24	1	12/1/2006	
Trichloroethene	BQL	5.00	3.12	1	12/1/2006	
1,1,1-Trichloroethane	BQL	5.00	3.45	1	12/1/2006	
1,1,2-Trichloroethane	BQL	5.00	2.58	1	12/1/2006	
Trichlorofluoromethane	BQL	5.00	4.13	1	12/1/2006	
1,2,3-Trichloropropane	BQL	5.00	2.65	1	12/1/2006	
1,2,4-Trimethylbenzene	BQL	5.00	2.80	1	12/1/2006	
1,3,5-Trimethylbenzene	BQL	5.00	2.98	1	12/1/2006	
Vinyl chloride	BQL	5.00	3.30	1	12/1/2006	
m-,p-Xylene	BQL	10.0	5.67	1	12/1/2006	
o-Xylene	BQL	5.00	2.80	1	12/1/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	41.4	83		
1,2-Dichloroethane-d4		50	55.6	111		
Toluene-d8		50	48.4	97		

**Comments:****Flags:**

BQL = Below Quantitation Limits.

Reviewed By:



SGS Environmental Services

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) Soil

Lab Sample ID: LCS9120106a

Sample wt/vol: 5.00 (g)

Lab File ID: 1201904.D

Level: (low/med) low

% Moisture: not dec.

Date Analyzed: 2006-12-01 11:38

GC Column: DB-624 ID: 0.2 (mm)

Dilution Factor: 1

Soil Extract Volume: NA

Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
71-43-2	benzene	30.0	30.8	103	77.6-122
108-90-7	chlorobenzene	30.0	28.4	94.6	75.3-125
75-35-4	1,1-dichloroethene	30.0	29.7	99.1	78.5-121
108-88-3	toluene	30.0	29.6	98.5	75.7-124
79-01-6	trichloroethene	30.0	28.7	95.8	60.8-139

System Monitoring Compound Results

		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	42.0	85.0	49.1 - 151
17060-07-0	1,2-Dichloroethane-d4	50	57.0	115	37.8 - 170
2037-26-5	Toluene-d8	50	49.0	98.0	58.8 - 144



SGS Environmental Services

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

LCS: LCS9120106A

Filename: 1201904.D

Date Analyzed: 12/01/06 11:38 Dilution: 1

LCSD: LCS9120106B

Filename: 1201905.D

Date Analyzed: 12/01/06 12:03 Matrix: Soil

COMPOUND	LCS SPIKE	LCS CONC	LCS %	LCSD SPIKE	LCSD CONC	LCSD %	%	QC LIMITS	
	(µg/kg)	(µg/kg)	REC #	(µg/kg)	(µg/kg)	REC #	RPD	RPD	REC
benzene	30.0	30.8	103	30.0	31.3	104	1.71	30	77.6-122
chlorobenzene	30.0	28.4	94.6	30.0	30.5	102	7.10	30	75.3-125
1,1-dichloroethene	30.0	29.7	99.1	30.0	31.2	104	4.86	30	78.5-121
toluene	30.0	29.6	98.5	30.0	30.7	102	3.91	30	75.7-124
trichloroethene	30.0	28.7	95.8	30.0	29.6	98.6	2.85	30	60.8-139

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



SGS Environmental Services

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No. g296-329-10a

Dilution: 1

Filenames: 1201917.D, 1201922.D, 1201923.D

COMPOUND	SAMPLE CONC (µg/kg)	MS SPIKE (µg/kg)	MS CONC (µg/kg)	MS % REC #	MSD SPIKE (µg/kg)	MSD CONC (µg/kg)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
benzene	BQL	31.7	31.7	100	31.7	27.9	87.8	12.9	30	74.8-133
chlorobenzene	BQL	31.7	26.4	83.3	31.7	20.5	64.6*	25.2	30	66.3-135
1,1-dichloroethene	BQL	31.7	30.8	97.0	31.7	27.3	86.0	11.9	30	72.0-135
toluene	BQL	31.7	29.6	93.2	31.7	24.2	76.3	19.9	30	70.5-138
trichloroethene	BQL	31.7	29.6	93.3	31.7	23.6	74.5	22.4	30	60.7-152

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_


**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID VBLK9113006B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	50.0	2.94	1	11/30/2006	
Benzene	BQL	5.00	2.85	1	11/30/2006	
Bromobenzene	BQL	5.00	2.46	1	11/30/2006	
Bromochloromethane	BQL	5.00	2.92	1	11/30/2006	
Bromodichloromethane	BQL	5.00	2.84	1	11/30/2006	
Bromoform	BQL	5.00	2.42	1	11/30/2006	
Bromomethane	BQL	5.00	4.19	1	11/30/2006	
2-Butanone	BQL	25.0	2.88	1	11/30/2006	
n-Butylbenzene	BQL	5.00	3.35	1	11/30/2006	
sec-Butylbenzene	BQL	5.00	3.50	1	11/30/2006	
tert-Butylbenzene	BQL	5.00	3.47	1	11/30/2006	
Carbon disulfide	BQL	5.00	2.63	1	11/30/2006	
Carbon tetrachloride	BQL	5.00	3.46	1	11/30/2006	
Chlorobenzene	BQL	5.00	2.51	1	11/30/2006	
Chloroethane	BQL	5.00	3.14	1	11/30/2006	
Chloroform	BQL	5.00	2.51	1	11/30/2006	
Chloromethane	BQL	5.00	2.41	1	11/30/2006	
2-Chlorotoluene	BQL	5.00	2.98	1	11/30/2006	
4-Chlorotoluene	BQL	5.00	2.78	1	11/30/2006	
Dibromochloromethane	BQL	5.00	2.24	1	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	10.6	1	11/30/2006	
Dibromomethane	BQL	5.00	3.00	1	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	5.00	2.33	1	11/30/2006	
1,2-Dichlorobenzene	BQL	5.00	2.41	1	11/30/2006	
1,3-Dichlorobenzene	BQL	5.00	2.34	1	11/30/2006	
1,4-Dichlorobenzene	BQL	5.00	2.46	1	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	5.00	10.7	1	11/30/2006	
1,1-Dichloroethane	BQL	5.00	2.88	1	11/30/2006	
1,1-Dichloroethene	BQL	5.00	3.85	1	11/30/2006	
1,2-Dichloroethane	BQL	5.00	2.87	1	11/30/2006	
cis-1,2-Dichloroethene	BQL	5.00	2.46	1	11/30/2006	
trans-1,2-dichloroethene	BQL	5.00	3.25	1	11/30/2006	
1,2-Dichloropropane	BQL	5.00	2.56	1	11/30/2006	
1,3-Dichloropropane	BQL	5.00	2.29	1	11/30/2006	
2,2-Dichloropropane	BQL	5.00	3.18	1	11/30/2006	
1,1-Dichloropropene	BQL	5.00	3.61	1	11/30/2006	
cis-1,3-Dichloropropene	BQL	5.00	2.78	1	11/30/2006	
trans-1,3-Dichloropropene	BQL	5.00	2.83	1	11/30/2006	
Dichlorodifluoromethane	BQL	5.00	3.73	1	11/30/2006	
Diisopropyl ether (DIPE)	BQL	5.00	2.37	1	11/30/2006	
Ethylbenzene	BQL	5.00	3.04	1	11/30/2006	
Hexachlorobutadiene	BQL	5.00	3.95	1	11/30/2006	



**Results for Volatiles  
by GCMS 8260-5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID VBLK9113006B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: MJC  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

Report Name Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	5.00	2.18	1	11/30/2006	
Iodomethane	BQL	5.00	4.65	1	11/30/2006	
Isopropylbenzene	BQL	5.00	3.22	1	11/30/2006	
4-Isopropyltoluene	BQL	5.00	3.40	1	11/30/2006	
Methylene chloride	<b>5.87</b>	20.0	2.86	1	11/30/2006	J
4-Methyl-2-pentanone	BQL	5.00	2.31	1	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	5.00	2.54	1	11/30/2006	
Naphthalene	BQL	5.00	2.01	1	11/30/2006	
n-Propyl benzene	BQL	5.00	3.21	1	11/30/2006	
Styrene	BQL	5.00	3.58	1	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	5.00	2.72	1	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	5.00	2.46	1	11/30/2006	
Tetrachloroethene	BQL	5.00	3.15	1	11/30/2006	
Toluene	BQL	5.00	2.96	1	11/30/2006	
1,2,3-Trichlorobenzene	BQL	5.00	2.19	1	11/30/2006	
1,2,4-Trichlorobenzene	BQL	5.00	2.24	1	11/30/2006	
Trichloroethene	BQL	5.00	3.12	1	11/30/2006	
1,1,1-Trichloroethane	BQL	5.00	3.45	1	11/30/2006	
1,1,2-Trichloroethane	BQL	5.00	2.58	1	11/30/2006	
Trichlorofluoromethane	BQL	5.00	4.13	1	11/30/2006	
1,2,3-Trichloropropane	BQL	5.00	2.65	1	11/30/2006	
1,2,4-Trimethylbenzene	BQL	5.00	2.80	1	11/30/2006	
1,3,5-Trimethylbenzene	BQL	5.00	2.98	1	11/30/2006	
Vinyl chloride	BQL	5.00	3.30	1	11/30/2006	
m-,p-Xylene	BQL	10.0	5.67	1	11/30/2006	
o-Xylene	BQL	5.00	2.80	1	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		50	34.8	70		
1,2-Dichloroethane-d4		50	60.5	121		
Toluene-d8		50	46.6	93		

**Comments:****Flags:**

BQL = Below Quantitation Limits.

Reviewed By:     *MSJ*



SGS Environmental Services

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) Soil

Lab Sample ID: LCS9113006a

Sample wt/vol: 5.00 (g)

Lab File ID: 1130905.D

Level: (low/med) low

% Moisture: not dec.

Date Analyzed: 2006-11-30 15:35

GC Column: DB-624 ID: 0.2 (mm)

Dilution Factor: 1

Soil Extract Volume: NA

Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/kg)	SAMP CONC (µg/kg)	% REC #	QC LIMITS
71-43-2	benzene	30.0	29.2	97.4	77.6-122
108-90-7	chlorobenzene	30.0	25.9	86.3	75.3-125
75-35-4	1,1-dichloroethene	30.0	29.9	99.8	78.5-121
108-88-3	toluene	30.0	27.5	91.6	75.7-124
79-01-6	trichloroethene	30.0	26.7	89.0	60.8-139

System Monitoring Compound Results

		Spike Added (µg/kg)	Spike Result (µg/kg)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	50	40.0	80.0	49.1 - 151
17060-07-0	1,2-Dichloroethane-d4	50	61.0	122	37.8 - 170
2037-26-5	Toluene-d8	50	48.0	95.0	58.8 - 144



SGS Environmental Services

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

LCS: LCS9113006A

Filename: 1130905.D

Date Analyzed: 11/30/06 15:35 Dilution: 1

LCSD: LCS9113006B

Filename: 1130906.D

Date Analyzed: 11/30/06 16:01 Matrix: Soil

COMPOUND	LCS SPIKE	LCS CONC	LCS %	LCSD SPIKE	LCSD CONC	LCSD %	%	QC LIMITS	
	(µg/kg)	(µg/kg)	REC #	(µg/kg)	(µg/kg)	REC #	RPD	RPD	REC
benzene	30.0	29.2	97.4	30.0	30.4	101	3.99	30	77.6-122
chlorobenzene	30.0	25.9	86.3	30.0	30.4	101	16.0	30	75.3-125
1,1-dichloroethene	30.0	29.9	99.8	30.0	30.8	103	2.83	30	78.5-121
toluene	30.0	27.5	91.6	30.0	29.2	97.5	6.28	30	75.7-124
trichloroethene	30.0	26.7	89.0	30.0	28.2	93.9	5.43	30	60.8-139

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: VBLK3113006B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

<b>Compound</b>	<b>Result UG/KG</b>	<b>Quantitation Limit UG/KG</b>	<b>MDL UG/KG</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>	<b>Flag</b>
Acetone	BQL	1250	168	50	11/30/2006	
Benzene	BQL	50.0	8.10	50	11/30/2006	
Bromobenzene	BQL	50.0	11.2	50	11/30/2006	
Bromochloromethane	BQL	50.0	15.6	50	11/30/2006	
Bromodichloromethane	BQL	50.0	9.25	50	11/30/2006	
Bromoform	BQL	50.0	4.80	50	11/30/2006	
Bromomethane	BQL	50.0	5.20	50	11/30/2006	
2-Butanone	BQL	1250	54.5	50	11/30/2006	
n-Butylbenzene	BQL	50.0	13.6	50	11/30/2006	
sec-Butylbenzene	BQL	50.0	11.7	50	11/30/2006	
tert-Butylbenzene	BQL	50.0	9.10	50	11/30/2006	
Carbon disulfide	BQL	50.0	10.3	50	11/30/2006	
Carbon tetrachloride	BQL	50.0	9.05	50	11/30/2006	
Chlorobenzene	BQL	50.0	8.85	50	11/30/2006	
Chloroethane	BQL	50.0	20.8	50	11/30/2006	
Chloroform	BQL	50.0	11.0	50	11/30/2006	
Chloromethane	BQL	50.0	14.1	50	11/30/2006	
2-Chlorotoluene	BQL	50.0	10.2	50	11/30/2006	
4-Chlorotoluene	BQL	50.0	10.3	50	11/30/2006	
Dibromochloromethane	BQL	50.0	10.4	50	11/30/2006	
1,2-Dibromo-3-chloropropane	BQL	250	97.5	50	11/30/2006	
Dibromomethane	BQL	50.0	13.8	50	11/30/2006	
1,2-Dibromoethane (EDB)	BQL	50.0	13.2	50	11/30/2006	
1,2-Dichlorobenzene	BQL	50.0	9.50	50	11/30/2006	
1,3-Dichlorobenzene	BQL	50.0	11.7	50	11/30/2006	
1,4-Dichlorobenzene	BQL	50.0	9.10	50	11/30/2006	
trans-1,4-Dichloro-2-butene	BQL	250	71.0	50	11/30/2006	
1,1-Dichloroethane	BQL	50.0	10.8	50	11/30/2006	
1,1-Dichloroethene	BQL	50.0	8.20	50	11/30/2006	
1,2-Dichloroethane	BQL	50.0	12.2	50	11/30/2006	
cis-1,2-Dichloroethene	BQL	50.0	8.80	50	11/30/2006	
trans-1,2-dichloroethene	BQL	50.0	11.5	50	11/30/2006	
1,2-Dichloropropane	BQL	50.0	8.30	50	11/30/2006	
1,3-Dichloropropane	BQL	50.0	8.45	50	11/30/2006	
2,2-Dichloropropane	BQL	50.0	12.0	50	11/30/2006	
1,1-Dichloropropene	BQL	50.0	8.80	50	11/30/2006	
cis-1,3-Dichloropropene	BQL	50.0	10.1	50	11/30/2006	
trans-1,3-Dichloropropene	BQL	50.0	5.95	50	11/30/2006	
Dichlorodifluoromethane	BQL	250	19.3	50	11/30/2006	
Diisopropyl ether (DIPE)	BQL	50.0	11.7	50	11/30/2006	
Ethylbenzene	BQL	50.0	10.3	50	11/30/2006	
Hexachlorobutadiene	BQL	50.0	20.5	50	11/30/2006	



**Results for Volatiles  
by GCMS 8260B/5035**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: VBLK3113006B  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: CLP  
 Date Collected:  
 Date Received:  
 Matrix: Soil  
 %Solids: 100.0

Compound	Result UG/KG	Quantitation Limit UG/KG	MDL UG/KG	Dilution Factor	Date Analyzed	Flag
2-Hexanone	BQL	250	43.7	50	11/30/2006	
Iodomethane	BQL	50.0	6.45	50	11/30/2006	
Isopropylbenzene	BQL	50.0	8.65	50	11/30/2006	
4-Isopropyltoluene	BQL	50.0	10.0	50	11/30/2006	
Methylene chloride	BQL	250	9.40	50	11/30/2006	
4-Methyl-2-pentanone	BQL	250	24.8	50	11/30/2006	
Methyl-tert-butyl ether (MTBE)	BQL	50.0	10.7	50	11/30/2006	
Naphthalene	BQL	50.0	14.0	50	11/30/2006	
n-Propyl benzene	BQL	50.0	10.5	50	11/30/2006	
Styrene	BQL	50.0	12.0	50	11/30/2006	
1,1,1,2-Tetrachloroethane	BQL	50.0	14.4	50	11/30/2006	
1,1,2,2-Tetrachloroethane	BQL	50.0	12.8	50	11/30/2006	
Tetrachloroethene	BQL	50.0	15.2	50	11/30/2006	
Toluene	BQL	50.0	8.75	50	11/30/2006	
1,2,3-Trichlorobenzene	BQL	50.0	9.95	50	11/30/2006	
1,2,4-Trichlorobenzene	BQL	50.0	12.2	50	11/30/2006	
Trichloroethene	BQL	50.0	10.5	50	11/30/2006	
1,1,1-Trichloroethane	BQL	50.0	9.85	50	11/30/2006	
1,1,2-Trichloroethane	BQL	50.0	13.4	50	11/30/2006	
Trichlorofluoromethane	BQL	50.0	21.4	50	11/30/2006	
1,2,3-Trichloropropane	BQL	50.0	11.7	50	11/30/2006	
1,2,4-Trimethylbenzene	BQL	50.0	10.0	50	11/30/2006	
1,3,5-Trimethylbenzene	BQL	50.0	9.35	50	11/30/2006	
Vinyl chloride	BQL	50.0	20.0	50	11/30/2006	
m-,p-Xylene	BQL	100	19.3	50	11/30/2006	
o-Xylene	BQL	50.0	8.35	50	11/30/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
4-Bromofluorobenzene		10	9.55	96		
1,2-Dichloroethane-d4		10	10.3	103		
Toluene-d8		10	9.95	99		

Comments:

Flags:

Reviewed By:     *RL*



SGS Environmental Services

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: g460-89-1d

Dilution: 2000

FileNames: 1130319.D, 1130321.D, 1130322.D

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
									acetone	BQL
acrolein	BQL	250000	254000	102	250000	202000	80.7	23.0	30	NA-424
acrylonitrile	BQL	250000	248000	99.2	250000	258000	103	4.07	30	85.0-175
benzene	BQL	10000	9800	98.0	10000	9580	95.8	2.27	30	61.6-135
bromobenzene	BQL	10000	10400	104	10000	10100	101	2.53	30	65.1-125
bromochloromethane	BQL	10000	10700	107	10000	10000	100	6.95	30	75.5-126
bromodichloromethane	BQL	10000	10200	102	10000	9320	93.2	9.21	30	74.3-123
bromoform	BQL	10000	9980	99.8	10000	9700	97.0	2.84	30	52.3-122
bromomethane	BQL	10000	11200	112	10000	11800	118	5.39	30	10.0-284
2-butanone	BQL	50000	41700	83.5	50000	42400	84.8	1.57	30	36.1-107
n-butylbenzene	15500	10000	10300	103	10000	9960	99.6	3.36	30	70.2-124
sec-butylbenzene	BQL	10000	10400	104	10000	10200	103	1.74	30	62.0-133
tert-butylbenzene	BQL	10000	10700	107	10000	9820	98.2	8.39	30	73.5-121
Carbon disulfide	BQL	10000	9320	93.2	10000	9140	91.4	1.95	30	68.8-129
carbon tetrachloride	BQL	10000	10100	101	10000	9640	96.4	4.46	30	71.8-122
chlorobenzene	BQL	10000	9940	99.4	10000	9620	96.2	3.27	30	77.2-118
chloroethane	BQL	10000	10200	102	10000	10800	108	5.51	30	10.0-233
2-chloroethyl vinyl ether	BQL	25000	245000	979*	25000	256000	1020*	4.50	30	NA-283
chloroform	BQL	10000	9880	98.8	10000	9560	95.6	3.29	30	74.0-128
chloromethane	BQL	10000	8300	83.0	10000	8900	89.0	6.98	30	72.0-138
2-chlorotoluene	BQL	10000	10700	107	10000	10300	103	4.38	30	79.3-118
4-chlorotoluene	BQL	10000	10700	107	10000	10200	102	4.60	30	76.8-120
dibromochloromethane	BQL	10000	9740	97.4	10000	9560	95.6	1.86	30	69.0-117
1,2-dibromo-3-chloropropane	BQL	50000	52600	105	50000	49800	99.6	5.58	30	20.2-171
1,2-dibromomethane	BQL	10000	10300	103	10000	9660	96.6	6.80	30	78.5-123
dibromomethane	BQL	10000	10700	107	10000	10000	100	6.36	30	71.3-137
1,2-dichlorobenzene	BQL	10000	10100	101	10000	9700	97.0	3.64	30	75.1-120
1,3-dichlorobenzene	BQL	10000	10200	102	10000	9840	98.4	3.40	30	73.1-121
1,4-dichlorobenzene	BQL	10000	10200	102	10000	9800	98.0	4.00	30	74.8-118
trans-1,4-Dichloro-2-butene	BQL	50000	44400	88.7	50000	41500	83.1	6.56	30	25.7-149
dichlorodifluoromethane	BQL	10000	9380	93.8	10000	9680	96.8	3.15	30	41.7-166
1,1-dichloroethane	BQL	10000	10200	102	10000	9580	95.8	5.88	30	75.6-128
1,2-dichloroethane	BQL	10000	9580	95.8	10000	9020	90.2	6.02	30	71.1-127
1,1-dichloroethene	BQL	10000	10200	102	10000	9680	96.8	5.23	30	64.4-130
cis-1,2-dichloroethene	BQL	10000	10400	104	10000	9600	96.0	7.81	30	72.7-134
trans-1,2-dichloroethene	BQL	10000	9640	96.4	10000	9520	95.2	1.25	30	74.6-124
1,2-dichloropropane	BQL	10000	9380	93.8	10000	9260	92.6	1.29	30	76.5-129
1,3-dichloropropane	BQL	10000	9840	98.4	10000	9480	94.8	3.73	30	79.1-121
2,2-dichloropropane	BQL	10000	9600	96.0	10000	8960	89.6	6.90	30	31.5-157
1,1-dichloropropene	BQL	10000	9800	98.0	10000	9520	95.2	2.90	30	72.5-120
cis-1,3-dichloropropene	BQL	10000	9680	96.8	10000	9220	92.2	4.87	30	66.6-132

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 72 outside of limits

Spike Recovery: 4 out of 144 outside of limits

COMMENTS:

3A





SGS Environmental Services

## LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) Water

Lab Sample ID: LCS3113006A

Sample wt/vol: 5.00 (mL)

Lab File ID: 1130304.D

Level: (low/med) NA

% Moisture: not dec. NA

Date Analyzed: 2006-11-30 10:29

GC Column: DB-624 ID: 0.2 (mm)

Dilution Factor: 1

Soil Extract Volume: NA

Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
67-64-1	acetone	25.0	21.6	86.4	41.1-159
107-02-8	acrolein	125	120	96.0	NA-214
107-13-1	acrylonitrile	125	125	100	60.4-140
71-43-2	benzene	5.00	4.85	97.0	77.4-123
108-86-1	bromobenzene	5.00	4.79	95.8	60.2-140
74-97-5	bromochloromethane	5.00	5.30	106	69.2-131
75-27-4	bromodichloromethane	5.00	5.05	101	73.8-126
75-25-2	bromoform	5.00	4.46	89.2	57.3-143
74-83-9	bromomethane	5.00	6.57	131	33.0-167
78-93-3	2-butanone	25.0	21.7	86.8	50.5-150
104-51-8	n-butylbenzene	5.00	4.99	99.8	71.3-129
135-98-8	sec-butylbenzene	5.00	5.12	102	72.2-128
98-06-6	tert-butylbenzene	5.00	4.86	97.2	75.0-125
75-15-0	Carbon disulfide	5.00	4.64	92.8	68.3-132
56-23-5	carbon tetrachloride	5.00	4.90	98.0	76.8-123
108-90-7	chlorobenzene	5.00	4.58	91.6	72.5-128
75-00-3	chloroethane	5.00	5.06	101	72.6-127
110-75-8	2-chloroethyl vinyl ether	12.5	122	974*	6.49-194
67-66-3	chloroform	5.00	5.01	100	73.5-126
74-87-3	chloromethane	5.00	4.98	99.6	50.7-149
95-49-8	2-chlorotoluene	5.00	5.14	103	77.7-122
106-43-4	4-chlorotoluene	5.00	5.12	102	75.2-125
124-48-1	dibromochloromethane	5.00	4.62	92.4	65.0-135
96-12-8	1,2-dibromo-3-chloropropane	25.0	24.0	96.2	60.8-139
106-93-4	1,2-dibromomethane	5.00	4.83	96.6	69.7-130
74-95-3	dibromomethane	5.00	5.13	103	76.0-124
95-50-1	1,2-dichlorobenzene	5.00	4.93	98.6	73.0-127
541-73-1	1,3-dichlorobenzene	5.00	4.92	98.4	71.3-129
106-46-7	1,4-dichlorobenzene	5.00	5.00	100	72.2-128
110-57-6	trans-1,4-Dichloro-2-butene	25.0	23.6	94.4	48.0-152
75-71-8	dichlorodifluoromethane	5.00	5.01	100	80.7-119
75-34-3	1,1-dichloroethane	5.00	5.03	101	69.4-130
107-06-2	1,2-dichloroethane	5.00	4.92	98.4	67.4-133
75-35-4	1,1-dichloroethene	5.00	4.75	95.0	71.7-128
156-59-2	cis-1,2-dichloroethene	5.00	4.94	98.8	76.4-124
156-60-5	trans-1,2-dichloroethene	5.00	4.76	95.2	73.9-126
78-87-5	1,2-dichloropropane	5.00	4.84	96.8	73.0-127
142-28-9	1,3-dichloropropane	5.00	4.72	94.4	76.7-123
594-20-7	2,2-dichloropropane	5.00	5.02	100	41.4-159
563-58-6	1,1-dichloropropene	5.00	4.96	99.2	72.8-127
10061-01-5	cis-1,3-dichloropropene	5.00	4.81	96.2	65.6-134



SGS Environmental Services

LABORATORY CONTROL SAMPLE VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental  
 Lab Code: NC00919 Case No.: SAS No.: SDG No:  
 Matrix: (soil/water) Water Lab Sample ID: LCS3113006A  
 Sample wt/vol: 5.00 (mL) Lab File ID: 1130304.D  
 Level: (low/med) NA  
 % Moisture: not dec. NA Date Analyzed: 2006-11-30 10:29  
 GC Column: DB-624 ID: 0.2 (mm) Dilution Factor: 1  
 Soil Extract Volume: NA Soil Aliquot Volume: NA

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
10061-02-6	trans-1,3-dichloropropene	5.00	4.83	96.6	64.4-136
108-20-3	Diisopropyl ether	5.00	4.87	97.4	69.7-130
100-41-4	ethylbenzene	5.00	4.97	99.4	77.0-123
87-68-3	hexachlorobutadiene	5.00	5.18	104	57.4-142
591-78-6	2-hexanone	25.0	20.6	82.2	57.3-143
74-88-4	Iodomethane	5.00	5.28	106	57.3-143
98-82-8	isopropylbenzene	5.00	4.95	99.0	76.5-123
99-87-6	4-isopropyltoluene	5.00	5.11	102	73.8-126
1634-04-4	Methyl-tert-butyl ether	5.00	4.88	97.6	67.9-132
75-09-2	methylene chloride	5.00	4.67	93.4	20.0-337
108-10-1	4-methyl-2-pentanone	25.0	23.3	93.3	62.3-138
91-20-3	naphthalene	5.00	4.85	97.0	59.0-141
103-65-1	n-propyl benzene	5.00	5.10	102	75.3-125
100-42-5	styrene	5.00	5.11	102	77.3-123
630-20-6	1,1,1,2-tetrachloroethane	5.00	4.85	97.0	67.3-133
79-34-5	1,1,2,2-tetrachloroethane	5.00	4.79	95.8	62.3-138
127-18-4	tetrachloroethene	5.00	4.77	95.4	56.0-144
108-88-3	toluene	5.00	4.91	98.2	75.9-124
87-61-6	1,2,3-trichlorobenzene	5.00	4.90	98.0	52.8-147
120-82-1	1,2,4-trichlorobenzene	5.00	5.11	102	54.4-146
71-55-6	1,1,1-trichloroethane	5.00	4.94	98.8	75.0-125
79-00-5	1,1,2-trichloroethane	5.00	4.78	95.6	73.9-126
79-01-6	trichloroethene	5.00	4.76	95.2	77.9-122
75-69-4	trichlorofluoromethane	5.00	5.19	104	82.7-117
96-18-4	1,2,3-trichloropropane	5.00	4.68	93.6	61.5-138
95-36-3	1,2,4-trimethylbenzene	5.00	4.87	97.4	73.8-126
108-67-8	1,3,5-trimethylbenzene	5.00	4.90	98.0	74.6-125
108-05-4	Vinyl acetate	12.5	8.42	67.4	5.00-NA
75-01-4	vinyl chloride	5.00	5.06	101	74.5-126
108-38-3	m/p-xylene	10.0	9.82	98.2	76.2-124
95-47-6	o-xylene	5.00	4.87	97.4	76.0-124

System Monitoring Compound Results

		Spike Added (µg/L)	Spike Result (µg/L)	Percent Rec. (%)	Percent Recovery (%)
460-00-4	4-Bromofluorobenzene	10	9.62	96.0	88.6 - 113
17060-07-0	1,2-Dichloroethane-d4	10	10.0	103	84.6 - 114
2037-26-5	Toluene-d8	10	9.97	100	87.4 - 109



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-001L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-1G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:05  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 80.42

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	379	54.3	1	12/4/2006	
Acenaphthylene	BQL	379	50.5	1	12/4/2006	
Anthracene	BQL	379	55.0	1	12/4/2006	
Benzo[a]anthracene	BQL	379	65.6	1	12/4/2006	
Benzo[a]pyrene	BQL	379	58.1	1	12/4/2006	
Benzo[b]fluoranthene	BQL	379	66.4	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	379	103	1	12/4/2006	
Benzo[k]fluoranthene	BQL	379	73.2	1	12/4/2006	
Benzoic Acid	BQL	759	759	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	379	56.5	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	379	45.9	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	379	47.4	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	379	50.8	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	379	64.1	1	12/4/2006	
Butylbenzylphthalate	BQL	379	58.4	1	12/4/2006	
2-Chloronaphthalene	BQL	379	59.6	1	12/4/2006	
2-Chlorophenol	BQL	379	119	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	379	118	1	12/4/2006	
4-Chloroaniline	BQL	1900	289	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	379	55.8	1	12/4/2006	
Chrysene	BQL	379	41.0	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	379	106	1	12/4/2006	
Dibenzofuran	BQL	379	69.1	1	12/4/2006	
Di-n-Butylphthalate	BQL	379	45.2	1	12/4/2006	
1,2-Dichlorobenzene	BQL	379	42.1	1	12/4/2006	
1,3-Dichlorobenzene	BQL	379	41.4	1	12/4/2006	
1,4-Dichlorobenzene	BQL	379	42.9	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	759	95.6	1	12/4/2006	
2,4-Dichlorophenol	BQL	379	137	1	12/4/2006	
Diethylphthalate	BQL	379	48.9	1	12/4/2006	
Dimethylphthalate	BQL	379	45.9	1	12/4/2006	
2,4-Dimethylphenol	BQL	379	271	1	12/4/2006	
Di-n-octylphthalate	BQL	379	62.6	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	1900	223	1	12/4/2006	
2,4-Dinitrophenol	BQL	1900	836	1	12/4/2006	
2,4-Dinitrotoluene	BQL	379	49.3	1	12/4/2006	
2,6-Dinitrotoluene	BQL	379	69.1	1	12/4/2006	
Diphenylamine *	BQL	379	37.2	1	12/4/2006	
Fluoranthene	BQL	379	53.1	1	12/4/2006	
Fluorene	BQL	379	47.1	1	12/4/2006	
Hexachlorobenzene	BQL	379	58.4	1	12/4/2006	
Hexachlorobutadiene	BQL	379	60.7	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	759	39.1	1	12/4/2006	
Hexachloroethane	BQL	379	34.2	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	379	97.1	1	12/4/2006	
Isophorone	BQL	379	55.8	1	12/4/2006	
2-Methylnaphthalene	BQL	379	111	1	12/4/2006	
2-Methylphenol	BQL	379	134	1	12/4/2006	
3- & 4-Methylphenol	BQL	379	129	1	12/4/2006	
Naphthalene	BQL	379	30.7	1	12/4/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-001L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-1G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:05  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 80.42

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	379	59.6	1	12/4/2006	
3-Nitroaniline	BQL	1900	391	1	12/4/2006	
4-Nitroaniline	BQL	1900	117	1	12/4/2006	
Nitrobenzene	BQL	379	51.2	1	12/4/2006	
2-Nitrophenol	BQL	379	118	1	12/4/2006	
4-Nitrophenol	BQL	1900	105	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	379	48.2	1	12/4/2006	
Pentachlorophenol	BQL	1900	99.0	1	12/4/2006	
Phenanthrene	BQL	379	43.3	1	12/4/2006	
Phenol	BQL	379	104	1	12/4/2006	
Pyrene	BQL	379	72.9	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	379	47.4	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	379	147	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	379	135	1	12/4/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		10	8.5	85		
2-Fluorophenol		10	9.3	93		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	9.8	98		
2,4,6-Tribromophenol		10	8.4	84		
4-Terphenyl-d14		10	9.3	93		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-002DL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-2G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:09  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 80.3

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	389	55.6	1	12/4/2006	
Acenaphthylene	BQL	389	51.7	1	12/4/2006	
Anthracene	BQL	389	56.3	1	12/4/2006	
Benzo[a]anthracene	BQL	389	67.2	1	12/4/2006	
Benzo[a]pyrene	BQL	389	59.4	1	12/4/2006	
Benzo[b]fluoranthene	BQL	389	68.0	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	389	106	1	12/4/2006	
Benzo[k]fluoranthene	BQL	389	75.0	1	12/4/2006	
Benzoic Acid	BQL	777	777	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	389	57.9	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	389	47.0	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	389	48.6	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	389	52.1	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	389	65.7	1	12/4/2006	
Butylbenzylphthalate	BQL	389	59.8	1	12/4/2006	
2-Chloronaphthalene	BQL	389	61.0	1	12/4/2006	
2-Chlorophenol	BQL	389	122	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	389	121	1	12/4/2006	
4-Chloroaniline	BQL	1940	296	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	389	57.1	1	12/4/2006	
Chrysene	BQL	389	42.0	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	389	109	1	12/4/2006	
Dibenzofuran	BQL	389	70.7	1	12/4/2006	
Di-n-Butylphthalate	BQL	389	46.2	1	12/4/2006	
1,2-Dichlorobenzene	BQL	389	43.1	1	12/4/2006	
1,3-Dichlorobenzene	BQL	389	42.4	1	12/4/2006	
1,4-Dichlorobenzene	BQL	389	43.9	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	777	97.9	1	12/4/2006	
2,4-Dichlorophenol	BQL	389	140	1	12/4/2006	
Diethylphthalate	BQL	389	50.1	1	12/4/2006	
Dimethylphthalate	BQL	389	47.0	1	12/4/2006	
2,4-Dimethylphenol	BQL	389	278	1	12/4/2006	
Di-n-octylphthalate	BQL	389	64.1	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	1940	229	1	12/4/2006	
2,4-Dinitrophenol	BQL	1940	856	1	12/4/2006	
2,4-Dinitrotoluene	BQL	389	50.5	1	12/4/2006	
2,6-Dinitrotoluene	BQL	389	70.7	1	12/4/2006	
Diphenylamine *	BQL	389	38.1	1	12/4/2006	
Fluoranthene	BQL	389	54.4	1	12/4/2006	
Fluorene	BQL	389	48.2	1	12/4/2006	
Hexachlorobenzene	BQL	389	59.8	1	12/4/2006	
Hexachlorobutadiene	BQL	389	62.2	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	777	40.0	1	12/4/2006	
Hexachloroethane	BQL	389	35.0	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	389	99.5	1	12/4/2006	
Isophorone	BQL	389	57.1	1	12/4/2006	
2-Methylnaphthalene	BQL	389	113	1	12/4/2006	
2-Methylphenol	BQL	389	137	1	12/4/2006	
3- & 4-Methylphenol	BQL	389	132	1	12/4/2006	
Naphthalene	BQL	389	31.5	1	12/4/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-002DL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-2G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:09  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 80.3

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	389	61.0	1	12/4/2006	
3-Nitroaniline	BQL	1940	400	1	12/4/2006	
4-Nitroaniline	BQL	1940	120	1	12/4/2006	
Nitrobenzene	BQL	389	52.5	1	12/4/2006	
2-Nitrophenol	BQL	389	120	1	12/4/2006	
4-Nitrophenol	BQL	1940	108	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	389	49.3	1	12/4/2006	
Pentachlorophenol	BQL	1940	101	1	12/4/2006	
Phenanthrene	BQL	389	44.3	1	12/4/2006	
Phenol	BQL	389	106	1	12/4/2006	
Pyrene	BQL	389	74.6	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	389	48.6	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	389	150	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	389	138	1	12/4/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		10	8.4	84		
2-Fluorophenol		10	9.2	92		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	9.5	95		
2,4,6-Tribromophenol		10	8.1	81		
4-Terphenyl-d14		10	9.8	98		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-003  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-3G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:12  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 73.65

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	413	59.0	1	12/4/2006	
Acenaphthylene	BQL	413	54.9	1	12/4/2006	
Anthracene	BQL	413	59.9	1	12/4/2006	
Benzo[a]anthracene	BQL	413	71.4	1	12/4/2006	
Benzo[a]pyrene	BQL	413	63.2	1	12/4/2006	
Benzo[b]fluoranthene	BQL	413	72.2	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	413	112	1	12/4/2006	
Benzo[k]fluoranthene	BQL	413	79.7	1	12/4/2006	
Benzoic Acid	BQL	826	826	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	413	61.5	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	413	50.0	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	413	51.6	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	413	55.3	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	413	69.8	1	12/4/2006	
Butylbenzylphthalate	BQL	413	63.6	1	12/4/2006	
2-Chloronaphthalene	BQL	413	64.8	1	12/4/2006	
2-Chlorophenol	BQL	413	129	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	413	129	1	12/4/2006	
4-Chloroaniline	BQL	2060	315	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	413	60.7	1	12/4/2006	
Chrysene	BQL	413	44.6	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	413	116	1	12/4/2006	
Dibenzofuran	BQL	413	75.1	1	12/4/2006	
Di-n-Butylphthalate	BQL	413	49.1	1	12/4/2006	
1,2-Dichlorobenzene	BQL	413	45.8	1	12/4/2006	
1,3-Dichlorobenzene	BQL	413	45.0	1	12/4/2006	
1,4-Dichlorobenzene	BQL	413	46.6	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	826	104	1	12/4/2006	
2,4-Dichlorophenol	BQL	413	149	1	12/4/2006	
Diethylphthalate	BQL	413	53.3	1	12/4/2006	
Dimethylphthalate	BQL	413	50.0	1	12/4/2006	
2,4-Dimethylphenol	BQL	413	295	1	12/4/2006	
Di-n-octylphthalate	BQL	413	68.1	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	2060	243	1	12/4/2006	
2,4-Dinitrophenol	BQL	2060	909	1	12/4/2006	
2,4-Dinitrotoluene	BQL	413	53.7	1	12/4/2006	
2,6-Dinitrotoluene	BQL	413	75.1	1	12/4/2006	
Diphenylamine *	BQL	413	40.5	1	12/4/2006	
Fluoranthene	BQL	413	57.8	1	12/4/2006	
Fluorene	BQL	413	51.2	1	12/4/2006	
Hexachlorobenzene	BQL	413	63.6	1	12/4/2006	
Hexachlorobutadiene	BQL	413	66.1	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	826	42.5	1	12/4/2006	
Hexachloroethane	BQL	413	37.2	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	413	106	1	12/4/2006	
Isophorone	BQL	413	60.7	1	12/4/2006	
2-Methylnaphthalene	BQL	413	121	1	12/4/2006	
2-Methylphenol	BQL	413	145	1	12/4/2006	
3- & 4-Methylphenol	BQL	413	140	1	12/4/2006	
Naphthalene	BQL	413	33.4	1	12/4/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TA-003  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-3G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:12  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 73.65

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	413	64.8	1	12/4/2006	
3-Nitroaniline	BQL	2060	425	1	12/4/2006	
4-Nitroaniline	BQL	2060	127	1	12/4/2006	
Nitrobenzene	BQL	413	55.7	1	12/4/2006	
2-Nitrophenol	BQL	413	128	1	12/4/2006	
4-Nitrophenol	BQL	2060	114	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	413	52.4	1	12/4/2006	
Pentachlorophenol	BQL	2060	108	1	12/4/2006	
Phenanthrene	BQL	413	47.1	1	12/4/2006	
Phenol	BQL	413	113	1	12/4/2006	
Pyrene	BQL	413	79.3	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	413	51.6	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	413	160	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	413	147	1	12/4/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.8	88
2-Fluorophenol	10	9.1	91
Nitrobenzene-d5	10	9.4	94
Phenol-d6	10	9.8	98
2,4,6-Tribromophenol	10	8.3	83
4-Terphenyl-d14	10	10.8	108

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-004L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-4G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:15  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 81.37

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	375	53.6	1	12/4/2006	
Acenaphthylene	BQL	375	49.8	1	12/4/2006	
Anthracene	BQL	375	54.3	1	12/4/2006	
Benzo[a]anthracene	BQL	375	64.8	1	12/4/2006	
Benzo[a]pyrene	BQL	375	57.3	1	12/4/2006	
Benzo[b]fluoranthene	BQL	375	65.6	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	375	102	1	12/4/2006	
Benzo[k]fluoranthene	BQL	375	72.3	1	12/4/2006	
Benzoic Acid	BQL	750	750	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	375	55.8	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	375	45.4	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	375	46.8	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	375	50.2	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	375	63.3	1	12/4/2006	
Butylbenzylphthalate	BQL	375	57.7	1	12/4/2006	
2-Chloronaphthalene	BQL	375	58.8	1	12/4/2006	
2-Chlorophenol	BQL	375	117	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	375	117	1	12/4/2006	
4-Chloroaniline	BQL	1870	286	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	375	55.1	1	12/4/2006	
Chrysene	BQL	375	40.5	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	375	105	1	12/4/2006	
Dibenzofuran	BQL	375	68.2	1	12/4/2006	
Di-n-Butylphthalate	BQL	375	44.6	1	12/4/2006	
1,2-Dichlorobenzene	BQL	375	41.6	1	12/4/2006	
1,3-Dichlorobenzene	BQL	375	40.9	1	12/4/2006	
1,4-Dichlorobenzene	BQL	375	42.4	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	750	94.4	1	12/4/2006	
2,4-Dichlorophenol	BQL	375	135	1	12/4/2006	
Diethylphthalate	BQL	375	48.3	1	12/4/2006	
Dimethylphthalate	BQL	375	45.4	1	12/4/2006	
2,4-Dimethylphenol	BQL	375	268	1	12/4/2006	
Di-n-octylphthalate	BQL	375	61.8	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	1870	221	1	12/4/2006	
2,4-Dinitrophenol	BQL	1870	825	1	12/4/2006	
2,4-Dinitrotoluene	BQL	375	48.7	1	12/4/2006	
2,6-Dinitrotoluene	BQL	375	68.2	1	12/4/2006	
Diphenylamine *	BQL	375	36.7	1	12/4/2006	
Fluoranthene	BQL	375	52.5	1	12/4/2006	
Fluorene	BQL	375	46.5	1	12/4/2006	
Hexachlorobenzene	BQL	375	57.7	1	12/4/2006	
Hexachlorobutadiene	BQL	375	60.0	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	750	38.6	1	12/4/2006	
Hexachloroethane	BQL	375	33.7	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	375	95.9	1	12/4/2006	
Isophorone	BQL	375	55.1	1	12/4/2006	
2-Methylnaphthalene	<b>5070</b>	375	109	1	12/4/2006	
2-Methylphenol	BQL	375	132	1	12/4/2006	
3- & 4-Methylphenol	BQL	375	127	1	12/4/2006	
Naphthalene	<b>2220</b>	375	30.4	1	12/4/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-004L  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-4G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:15  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 81.37

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	375	58.8	1	12/4/2006	
3-Nitroaniline	BQL	1870	386	1	12/4/2006	
4-Nitroaniline	BQL	1870	115	1	12/4/2006	
Nitrobenzene	BQL	375	50.6	1	12/4/2006	
2-Nitrophenol	BQL	375	116	1	12/4/2006	
4-Nitrophenol	BQL	1870	104	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	375	47.6	1	12/4/2006	
Pentachlorophenol	BQL	1870	97.8	1	12/4/2006	
Phenanthrene	BQL	375	42.7	1	12/4/2006	
Phenol	BQL	375	103	1	12/4/2006	
Pyrene	BQL	375	72.0	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	375	46.8	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	375	145	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	375	133	1	12/4/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	9.4	94
Nitrobenzene-d5	10	11	110
Phenol-d6	10	9.5	95
2,4,6-Tribromophenol	10	8.9	89
4-Terphenyl-d14	10	9.9	99

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-005SL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-5G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:19  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 76.89

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	3900	557	10	12/4/2006	
Acenaphthylene	BQL	3900	518	10	12/4/2006	
Anthracene	BQL	3900	565	10	12/4/2006	
Benzo[a]anthracene	BQL	3900	674	10	12/4/2006	
Benzo[a]pyrene	BQL	3900	596	10	12/4/2006	
Benzo[b]fluoranthene	BQL	3900	682	10	12/4/2006	
Benzo[g,h,i]perylene	BQL	3900	1060	10	12/4/2006	
Benzo[k]fluoranthene	BQL	3900	752	10	12/4/2006	
Benzoic Acid	BQL	7790	7790	10	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	3900	581	10	12/4/2006	
Bis(2-chloroethyl)ether	BQL	3900	471	10	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	3900	487	10	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	3900	522	10	12/4/2006	
4-bromophenyl phenyl ether	BQL	3900	658	10	12/4/2006	
Butylbenzylphthalate	BQL	3900	600	10	12/4/2006	
2-Chloronaphthalene	BQL	3900	612	10	12/4/2006	
2-Chlorophenol	BQL	3900	1220	10	12/4/2006	
4-Chloro-3-methylphenol	BQL	3900	1220	10	12/4/2006	
4-Chloroaniline	BQL	19500	2970	10	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	3900	573	10	12/4/2006	
Chrysene	BQL	3900	421	10	12/4/2006	
Dibenzo[a,h]anthracene	BQL	3900	1090	10	12/4/2006	
Dibenzofuran	BQL	3900	709	10	12/4/2006	
Di-n-Butylphthalate	BQL	3900	464	10	12/4/2006	
1,2-Dichlorobenzene	BQL	3900	432	10	12/4/2006	
1,3-Dichlorobenzene	BQL	3900	425	10	12/4/2006	
1,4-Dichlorobenzene	BQL	3900	440	10	12/4/2006	
3,3'-Dichlorobenzidine	BQL	7790	982	10	12/4/2006	
2,4-Dichlorophenol	BQL	3900	1400	10	12/4/2006	
Diethylphthalate	BQL	3900	503	10	12/4/2006	
Dimethylphthalate	BQL	3900	471	10	12/4/2006	
2,4-Dimethylphenol	BQL	3900	2790	10	12/4/2006	
Di-n-octylphthalate	BQL	3900	643	10	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	19500	2290	10	12/4/2006	
2,4-Dinitrophenol	BQL	19500	8580	10	12/4/2006	
2,4-Dinitrotoluene	BQL	3900	507	10	12/4/2006	
2,6-Dinitrotoluene	BQL	3900	709	10	12/4/2006	
Diphenylamine *	BQL	3900	382	10	12/4/2006	
Fluoranthene	BQL	3900	545	10	12/4/2006	
Fluorene	<b>584</b>	3900	483	10	12/4/2006	J
Hexachlorobenzene	BQL	3900	600	10	12/4/2006	
Hexachlorobutadiene	BQL	3900	623	10	12/4/2006	
Hexachlorocyclopentadiene	BQL	7790	401	10	12/4/2006	
Hexachloroethane	BQL	3900	351	10	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	3900	997	10	12/4/2006	
Isophorone	BQL	3900	573	10	12/4/2006	
2-Methylnaphthalene	<b>52300</b>	3900	1140	10	12/4/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-005SL  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-5G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:19  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 76.89

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	3900	1370	10	12/4/2006	
3- & 4-Methylphenol	BQL	3900	1320	10	12/4/2006	
Naphthalene	<b>28100</b>	3900	316	10	12/4/2006	
2-Nitroaniline	BQL	3900	612	10	12/4/2006	
3-Nitroaniline	BQL	19500	4010	10	12/4/2006	
4-Nitroaniline	BQL	19500	1200	10	12/4/2006	
Nitrobenzene	BQL	3900	526	10	12/4/2006	
2-Nitrophenol	BQL	3900	1210	10	12/4/2006	
4-Nitrophenol	BQL	19500	1080	10	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	3900	495	10	12/4/2006	
Pentachlorophenol	BQL	19500	1020	10	12/4/2006	
Phenanthrene	BQL	3900	444	10	12/4/2006	
Phenol	BQL	3900	1070	10	12/4/2006	
Pyrene	BQL	3900	748	10	12/4/2006	
1,2,4-Trichlorobenzene	BQL	3900	487	10	12/4/2006	
2,4,5-Trichlorophenol	BQL	3900	1510	10	12/4/2006	
2,4,6-Trichlorophenol	BQL	3900	1390	10	12/4/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		1	NA	NA		
2-Fluorophenol		1	NA	NA		
Nitrobenzene-d5		1	NA	NA		
Phenol-d6		1	NA	NA		
2,4,6-Tribromophenol		1	NA	NA		
4-Terphenyl-d14		1	NA	NA		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EW



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-006  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-6G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:22  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 87.38

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	340	48.6	1	12/4/2006	
Acenaphthylene	BQL	340	45.2	1	12/4/2006	
Anthracene	BQL	340	49.2	1	12/4/2006	
Benzo[a]anthracene	BQL	340	58.7	1	12/4/2006	
Benzo[a]pyrene	BQL	340	52.0	1	12/4/2006	
Benzo[b]fluoranthene	BQL	340	59.4	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	340	92.4	1	12/4/2006	
Benzo[k]fluoranthene	BQL	340	65.5	1	12/4/2006	
Benzoic Acid	BQL	679	679	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	340	50.6	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	340	41.1	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	340	42.4	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	340	45.5	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	340	57.4	1	12/4/2006	
Butylbenzylphthalate	BQL	340	52.3	1	12/4/2006	
2-Chloronaphthalene	BQL	340	53.3	1	12/4/2006	
2-Chlorophenol	BQL	340	106	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	340	106	1	12/4/2006	
4-Chloroaniline	BQL	1700	259	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	340	49.9	1	12/4/2006	
Chrysene	BQL	340	36.7	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	340	95.1	1	12/4/2006	
Dibenzofuran	BQL	340	61.8	1	12/4/2006	
Di-n-Butylphthalate	BQL	340	40.4	1	12/4/2006	
1,2-Dichlorobenzene	BQL	340	37.7	1	12/4/2006	
1,3-Dichlorobenzene	BQL	340	37.0	1	12/4/2006	
1,4-Dichlorobenzene	BQL	340	38.4	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	679	85.6	1	12/4/2006	
2,4-Dichlorophenol	BQL	340	122	1	12/4/2006	
Diethylphthalate	BQL	340	43.8	1	12/4/2006	
Dimethylphthalate	BQL	340	41.1	1	12/4/2006	
2,4-Dimethylphenol	BQL	340	243	1	12/4/2006	
Di-n-octylphthalate	BQL	340	56.0	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	1700	200	1	12/4/2006	
2,4-Dinitrophenol	BQL	1700	748	1	12/4/2006	
2,4-Dinitrotoluene	BQL	340	44.1	1	12/4/2006	
2,6-Dinitrotoluene	BQL	340	61.8	1	12/4/2006	
Diphenylamine *	BQL	340	33.3	1	12/4/2006	
Fluoranthene	BQL	340	47.5	1	12/4/2006	
Fluorene	BQL	340	42.1	1	12/4/2006	
Hexachlorobenzene	BQL	340	52.3	1	12/4/2006	
Hexachlorobutadiene	BQL	340	54.3	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	679	35.0	1	12/4/2006	
Hexachloroethane	BQL	340	30.6	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	340	86.9	1	12/4/2006	
Isophorone	BQL	340	49.9	1	12/4/2006	
2-Methylnaphthalene	<b>180</b>	340	99.2	1	12/4/2006	J
2-Methylphenol	BQL	340	120	1	12/4/2006	
3- & 4-Methylphenol	BQL	340	115	1	12/4/2006	
Naphthalene	<b>149</b>	340	27.5	1	12/4/2006	J



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TB-006  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-6G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:22  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 87.38

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	340	53.3	1	12/4/2006	
3-Nitroaniline	BQL	1700	350	1	12/4/2006	
4-Nitroaniline	BQL	1700	105	1	12/4/2006	
Nitrobenzene	BQL	340	45.8	1	12/4/2006	
2-Nitrophenol	BQL	340	105	1	12/4/2006	
4-Nitrophenol	BQL	1700	94.1	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	340	43.1	1	12/4/2006	
Pentachlorophenol	BQL	1700	88.6	1	12/4/2006	
Phenanthrene	BQL	340	38.7	1	12/4/2006	
Phenol	BQL	340	93.0	1	12/4/2006	
Pyrene	BQL	340	65.2	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	340	42.4	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	340	131	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	340	121	1	12/4/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		10	8.6	86		
2-Fluorophenol		10	8.9	89		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	9.4	94		
2,4,6-Tribromophenol		10	9	90		
4-Terphenyl-d14		10	9.4	94		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TC-007  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-7G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:30  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 86.41

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	3460	495	10	12/5/2006	
Acenaphthylene	BQL	3460	460	10	12/5/2006	
Anthracene	BQL	3460	502	10	12/5/2006	
Benzo[a]anthracene	BQL	3460	599	10	12/5/2006	
Benzo[a]pyrene	BQL	3460	529	10	12/5/2006	
Benzo[b]fluoranthene	BQL	3460	605	10	12/5/2006	
Benzo[g,h,i]perylene	BQL	3460	941	10	12/5/2006	
Benzo[k]fluoranthene	BQL	3460	668	10	12/5/2006	
Benzoic Acid	BQL	6920	6920	10	12/5/2006	
Bis(2-chloroethoxy)methane	BQL	3460	515	10	12/5/2006	
Bis(2-chloroethyl)ether	BQL	3460	419	10	12/5/2006	
Bis(2-chloroisopropyl)ether	BQL	3460	432	10	12/5/2006	
Bis(2-ethylhexyl)phthalate	BQL	3460	464	10	12/5/2006	
4-bromophenyl phenyl ether	BQL	3460	585	10	12/5/2006	
Butylbenzylphthalate	BQL	3460	533	10	12/5/2006	
2-Chloronaphthalene	BQL	3460	543	10	12/5/2006	
2-Chlorophenol	BQL	3460	1080	10	12/5/2006	
4-Chloro-3-methylphenol	BQL	3460	1080	10	12/5/2006	
4-Chloroaniline	BQL	17300	2640	10	12/5/2006	
4-Chlorophenyl phenyl ether	BQL	3460	509	10	12/5/2006	
Chrysene	BQL	3460	374	10	12/5/2006	
Dibenzo[a,h]anthracene	BQL	3460	969	10	12/5/2006	
Dibenzofuran	BQL	3460	630	10	12/5/2006	
Di-n-Butylphthalate	BQL	3460	412	10	12/5/2006	
1,2-Dichlorobenzene	BQL	3460	384	10	12/5/2006	
1,3-Dichlorobenzene	BQL	3460	377	10	12/5/2006	
1,4-Dichlorobenzene	BQL	3460	391	10	12/5/2006	
3,3'-Dichlorobenzidine	BQL	6920	872	10	12/5/2006	
2,4-Dichlorophenol	BQL	3460	1250	10	12/5/2006	
Diethylphthalate	BQL	3460	446	10	12/5/2006	
Dimethylphthalate	BQL	3460	419	10	12/5/2006	
2,4-Dimethylphenol	BQL	3460	2470	10	12/5/2006	
Di-n-octylphthalate	BQL	3460	571	10	12/5/2006	
4,6-Dinitro-2-methylphenol	BQL	17300	2040	10	12/5/2006	
2,4-Dinitrophenol	BQL	17300	7620	10	12/5/2006	
2,4-Dinitrotoluene	BQL	3460	450	10	12/5/2006	
2,6-Dinitrotoluene	BQL	3460	630	10	12/5/2006	
Diphenylamine *	BQL	3460	339	10	12/5/2006	
Fluoranthene	BQL	3460	484	10	12/5/2006	
Fluorene	<b>450</b>	3460	429	10	12/5/2006	J
Hexachlorobenzene	BQL	3460	533	10	12/5/2006	
Hexachlorobutadiene	BQL	3460	554	10	12/5/2006	
Hexachlorocyclopentadiene	BQL	6920	356	10	12/5/2006	
Hexachloroethane	BQL	3460	311	10	12/5/2006	
Indeno(1,2,3-c,d)pyrene	BQL	3460	886	10	12/5/2006	
Isophorone	BQL	3460	509	10	12/5/2006	
2-Methylnaphthalene	<b>24800</b>	3460	1010	10	12/5/2006	
2-Methylphenol	BQL	3460	1220	10	12/5/2006	
3- & 4-Methylphenol	BQL	3460	1170	10	12/5/2006	
Naphthalene	<b>10800</b>	3460	280	10	12/5/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TC-007  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-7G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:30  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 86.41

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	3460	543	10	12/5/2006	
3-Nitroaniline	BQL	17300	3560	10	12/5/2006	
4-Nitroaniline	BQL	17300	1070	10	12/5/2006	
Nitrobenzene	BQL	3460	467	10	12/5/2006	
2-Nitrophenol	BQL	3460	1070	10	12/5/2006	
4-Nitrophenol	BQL	17300	958	10	12/5/2006	
N-Nitrosodi-n-propylamine	BQL	3460	439	10	12/5/2006	
Pentachlorophenol	BQL	17300	903	10	12/5/2006	
Phenanthrene	BQL	3460	394	10	12/5/2006	
Phenol	BQL	3460	948	10	12/5/2006	
Pyrene	BQL	3460	664	10	12/5/2006	
1,2,4-Trichlorobenzene	BQL	3460	432	10	12/5/2006	
2,4,5-Trichlorophenol	BQL	3460	1340	10	12/5/2006	
2,4,6-Trichlorophenol	BQL	3460	1230	10	12/5/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	1	NA	NA
2-Fluorophenol	1	NA	NA
Nitrobenzene-d5	1	NA	NA
Phenol-d6	1	NA	NA
2,4,6-Tribromophenol	1	NA	NA
4-Terphenyl-d14	1	NA	NA

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.  
 NA = Not Applicable, surrogate diluted out

Reviewed By:     *EW*



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TC-008  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-8G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:40  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 87.89

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	350	50.0	1	12/4/2006	
Acenaphthylene	BQL	350	46.5	1	12/4/2006	
Anthracene	BQL	350	50.7	1	12/4/2006	
Benzo[a]anthracene	BQL	350	60.5	1	12/4/2006	
Benzo[a]pyrene	BQL	350	53.5	1	12/4/2006	
Benzo[b]fluoranthene	BQL	350	61.2	1	12/4/2006	
Benzo[g,h,i]perylene	BQL	350	95.1	1	12/4/2006	
Benzo[k]fluoranthene	BQL	350	67.5	1	12/4/2006	
Benzoic Acid	BQL	700	700	1	12/4/2006	
Bis(2-chloroethoxy)methane	BQL	350	52.1	1	12/4/2006	
Bis(2-chloroethyl)ether	BQL	350	42.3	1	12/4/2006	
Bis(2-chloroisopropyl)ether	BQL	350	43.7	1	12/4/2006	
Bis(2-ethylhexyl)phthalate	BQL	350	46.9	1	12/4/2006	
4-bromophenyl phenyl ether	BQL	350	59.1	1	12/4/2006	
Butylbenzylphthalate	BQL	350	53.9	1	12/4/2006	
2-Chloronaphthalene	BQL	350	54.9	1	12/4/2006	
2-Chlorophenol	BQL	350	109	1	12/4/2006	
4-Chloro-3-methylphenol	BQL	350	109	1	12/4/2006	
4-Chloroaniline	BQL	1750	267	1	12/4/2006	
4-Chlorophenyl phenyl ether	BQL	350	51.4	1	12/4/2006	
Chrysene	BQL	350	37.8	1	12/4/2006	
Dibenzo[a,h]anthracene	BQL	350	97.9	1	12/4/2006	
Dibenzofuran	BQL	350	63.7	1	12/4/2006	
Di-n-Butylphthalate	BQL	350	41.6	1	12/4/2006	
1,2-Dichlorobenzene	BQL	350	38.8	1	12/4/2006	
1,3-Dichlorobenzene	BQL	350	38.1	1	12/4/2006	
1,4-Dichlorobenzene	BQL	350	39.5	1	12/4/2006	
3,3'-Dichlorobenzidine	BQL	700	88.1	1	12/4/2006	
2,4-Dichlorophenol	BQL	350	126	1	12/4/2006	
Diethylphthalate	BQL	350	45.1	1	12/4/2006	
Dimethylphthalate	BQL	350	42.3	1	12/4/2006	
2,4-Dimethylphenol	BQL	350	250	1	12/4/2006	
Di-n-octylphthalate	BQL	350	57.7	1	12/4/2006	
4,6-Dinitro-2-methylphenol	BQL	1750	206	1	12/4/2006	
2,4-Dinitrophenol	BQL	1750	770	1	12/4/2006	
2,4-Dinitrotoluene	BQL	350	45.5	1	12/4/2006	
2,6-Dinitrotoluene	BQL	350	63.7	1	12/4/2006	
Diphenylamine *	BQL	350	34.3	1	12/4/2006	
Fluoranthene	BQL	350	49.0	1	12/4/2006	
Fluorene	BQL	350	43.4	1	12/4/2006	
Hexachlorobenzene	BQL	350	53.9	1	12/4/2006	
Hexachlorobutadiene	BQL	350	56.0	1	12/4/2006	
Hexachlorocyclopentadiene	BQL	700	36.0	1	12/4/2006	
Hexachloroethane	BQL	350	31.5	1	12/4/2006	
Indeno(1,2,3-c,d)pyrene	BQL	350	89.5	1	12/4/2006	
Isophorone	BQL	350	51.4	1	12/4/2006	
2-Methylnaphthalene	<b>231</b>	350	102	1	12/4/2006	J
2-Methylphenol	BQL	350	123	1	12/4/2006	
3- & 4-Methylphenol	BQL	350	119	1	12/4/2006	
Naphthalene	<b>129</b>	350	28.3	1	12/4/2006	J



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: AS511-TC-008  
 Client Project ID: AS-511  
 Lab Sample ID: G663-17-8G  
 Lab Project ID: G663-17  
 Report Basis: Dry weight

Analyzed By: EAW  
 Date Collected: 11/27/2006 11:40  
 Date Received: 11/27/2006  
 Date Extracted: 11/28/2006  
 Matrix: Soil  
 % Solids: 87.89

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	350	54.9	1	12/4/2006	
3-Nitroaniline	BQL	1750	360	1	12/4/2006	
4-Nitroaniline	BQL	1750	108	1	12/4/2006	
Nitrobenzene	BQL	350	47.2	1	12/4/2006	
2-Nitrophenol	BQL	350	108	1	12/4/2006	
4-Nitrophenol	BQL	1750	96.9	1	12/4/2006	
N-Nitrosodi-n-propylamine	BQL	350	44.4	1	12/4/2006	
Pentachlorophenol	BQL	1750	91.3	1	12/4/2006	
Phenanthrene	BQL	350	39.9	1	12/4/2006	
Phenol	BQL	350	95.8	1	12/4/2006	
Pyrene	BQL	350	67.2	1	12/4/2006	
1,2,4-Trichlorobenzene	BQL	350	43.7	1	12/4/2006	
2,4,5-Trichlorophenol	BQL	350	135	1	12/4/2006	
2,4,6-Trichlorophenol	BQL	350	125	1	12/4/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	8.9	89		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	9.3	93		
2,4,6-Tribromophenol		10	8.9	89		
4-Terphenyl-d14		10	10.1	101		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB6773  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: EAW  
 Date Collected:  
 Date Received:  
 Date Extracted: 11/28/2006  
 Matrix: SOIL  
 % Solids: 100

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	313	44.7	1	11/29/2006	
Acenaphthylene	BQL	313	41.6	1	11/29/2006	
Anthracene	BQL	313	45.3	1	11/29/2006	
Benzo[a]anthracene	BQL	313	54.1	1	11/29/2006	
Benzo[a]pyrene	BQL	313	47.8	1	11/29/2006	
Benzo[b]fluoranthene	BQL	313	54.7	1	11/29/2006	
Benzo[g,h,i]perylene	BQL	313	85.0	1	11/29/2006	
Benzo[k]fluoranthene	BQL	313	60.3	1	11/29/2006	
Benzoic Acid	BQL	625	625	1	11/29/2006	
Bis(2-chloroethoxy)methane	BQL	313	46.6	1	11/29/2006	
Bis(2-chloroethyl)ether	BQL	313	37.8	1	11/29/2006	
Bis(2-chloroisopropyl)ether	BQL	313	39.1	1	11/29/2006	
Bis(2-ethylhexyl)phthalate	BQL	313	41.9	1	11/29/2006	
4-bromophenyl phenyl ether	BQL	313	52.8	1	11/29/2006	
Butylbenzylphthalate	BQL	313	48.1	1	11/29/2006	
2-Chloronaphthalene	BQL	313	49.1	1	11/29/2006	
2-Chlorophenol	BQL	313	97.8	1	11/29/2006	
4-Chloro-3-methylphenol	BQL	313	97.5	1	11/29/2006	
4-Chloroaniline	BQL	1560	238	1	11/29/2006	
4-Chlorophenyl phenyl ether	BQL	313	45.9	1	11/29/2006	
Chrysene	BQL	313	33.8	1	11/29/2006	
Dibenzo[a,h]anthracene	BQL	313	87.5	1	11/29/2006	
Dibenzofuran	BQL	313	56.9	1	11/29/2006	
Di-n-Butylphthalate	BQL	313	37.2	1	11/29/2006	
1,2-Dichlorobenzene	BQL	313	34.7	1	11/29/2006	
1,3-Dichlorobenzene	BQL	313	34.1	1	11/29/2006	
1,4-Dichlorobenzene	BQL	313	35.3	1	11/29/2006	
3,3'-Dichlorobenzidine	BQL	625	78.8	1	11/29/2006	
2,4-Dichlorophenol	BQL	313	113	1	11/29/2006	
Diethylphthalate	BQL	313	40.3	1	11/29/2006	
Dimethylphthalate	BQL	313	37.8	1	11/29/2006	
2,4-Dimethylphenol	BQL	313	223	1	11/29/2006	
Di-n-octylphthalate	BQL	313	51.6	1	11/29/2006	
4,6-Dinitro-2-methylphenol	BQL	1560	184	1	11/29/2006	
2,4-Dinitrophenol	BQL	1560	688	1	11/29/2006	
2,4-Dinitrotoluene	BQL	313	40.6	1	11/29/2006	
2,6-Dinitrotoluene	BQL	313	56.9	1	11/29/2006	
Diphenylamine *	BQL	313	30.6	1	11/29/2006	
Fluoranthene	BQL	313	43.7	1	11/29/2006	
Fluorene	BQL	313	38.8	1	11/29/2006	
Hexachlorobenzene	BQL	313	48.1	1	11/29/2006	
Hexachlorobutadiene	BQL	313	50.0	1	11/29/2006	
Hexachlorocyclopentadiene	BQL	625	32.2	1	11/29/2006	
Hexachloroethane	BQL	313	28.1	1	11/29/2006	
Indeno(1,2,3-c,d)pyrene	BQL	313	80.0	1	11/29/2006	
Isophorone	BQL	313	45.9	1	11/29/2006	
2-Methylnaphthalene	BQL	313	91.2	1	11/29/2006	
2-Methylphenol	BQL	313	110	1	11/29/2006	
3- & 4-Methylphenol	BQL	313	106	1	11/29/2006	
Naphthalene	BQL	313	25.3	1	11/29/2006	



**Results for Semivolatiles  
by GCMS 8270**

Client Sample ID: Method Blank  
 Client Project ID:  
 Lab Sample ID: PB6773  
 Lab Project ID:  
 Report Basis: Dry Weight

Analyzed By: EAW  
 Date Collected:  
 Date Received:  
 Date Extracted: 11/28/2006  
 Matrix: SOIL  
 % Solids: 100

Compound	Result ug/Kg	RL ug/Kg	MDL ug/Kg	Dilution Factor	Date Analyzed	Flag
2-Nitroaniline	BQL	313	49.1	1	11/29/2006	
3-Nitroaniline	BQL	1560	322	1	11/29/2006	
4-Nitroaniline	BQL	1560	96.3	1	11/29/2006	
Nitrobenzene	BQL	313	42.2	1	11/29/2006	
2-Nitrophenol	BQL	313	96.9	1	11/29/2006	
4-Nitrophenol	BQL	1560	86.6	1	11/29/2006	
N-Nitrosodi-n-propylamine	BQL	313	39.7	1	11/29/2006	
Pentachlorophenol	BQL	1560	81.6	1	11/29/2006	
Phenanthrene	BQL	313	35.6	1	11/29/2006	
Phenol	BQL	313	85.6	1	11/29/2006	
Pyrene	BQL	313	60.0	1	11/29/2006	
1,2,4-Trichlorobenzene	BQL	313	39.1	1	11/29/2006	
2,4,5-Trichlorophenol	BQL	313	121	1	11/29/2006	
2,4,6-Trichlorophenol	BQL	313	111	1	11/29/2006	
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>		
2-Fluorobiphenyl		10	9.4	94		
2-Fluorophenol		10	9.4	94		
Nitrobenzene-d5		10	9.5	95		
Phenol-d6		10	9.8	98		
2,4,6-Tribromophenol		10	9.9	99		
4-Terphenyl-d14		10	12.1	121		

**Comments:**

\* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

**Flags:**

BQL = Below Quantitation Limits.  
 J = Detected below the quantitation limit.

Reviewed By:     *EW*



**Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)**  
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-6773-MS/MSD/LCS

Date Extracted: 11/28/07

Lab Project ID:

Date Analyzed: 12/04/06

Matrix: SOIL

Analyzed By: EAW

Prep Method: 3540

Dilution: 1

	Sample Amount (µg/kg)	MS Spike (µg/kg)	MS Conc. (µg/kg)	MS Spike % Rec.	MSD Spike (µg/kg)	MSD Conc. (µg/kg)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	3550	3690	104	3530	3770	107.0	2.66	30	73.0-140
4-Chloro-3-methylphenol	BQL	3550	3410	96.2	3530	3410	96.6	0.415	30	80.0-115
2-Chlorophenol	BQL	3550	3230	91.1	3530	3310	93.7	2.81	30	77.1-111
1,4-Dichlorobenzene	BQL	3550	3250	91.6	3530	3350	94.8	3.43	30	70.6-117
2,4-Dinitrotoluene	BQL	3550	3720	105	3530	3760	106.0	1.61	30	67.6-136
N-Nitrosodi-n-propylamine	BQL	3550	3670	104	3530	3750	106.0	2.48	30	74.3-133
4-Nitrophenol	BQL	3550	3010	84.9	3530	3120	88.3	3.93	30	56.8-133
Pentachlorophenol	BQL	3550	2180	61.5	3530	2190	62.1	0.971	30	29.2-108
Phenol	BQL	3550	3320	93.5	3530	3380	95.7	2.33	30	71.2-120
Pyrene	BQL	3550	4110	116	3530	4180	118.0	2.31	30	68.5-140
1,2,4-Trichlorobenzene	BQL	3550	3410	96.1	3530	3440	97.2	1.14	30	68.9-119

	Spiked Amount (µg/kg)	LCS Conc. (µg/kg)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	3125	3550	114	80.9-143
4-Chloro-3-methylphenol	3125	3180	102	83.9-124
2-Chlorophenol	3125	3110	99.5	80.3-119
1,4-Dichlorobenzene	3125	3170	101	76.3-118
2,4-Dinitrotoluene	3125	3550	114	80.6-126
N-Nitrosodi-n-propylamine	3125	3460	111	80.3-131
4-Nitrophenol	3125	2740	87.7	60.0-145
Pentachlorophenol	3125	2010	64.4	36.4-114
Phenol	3125	3170	101	74.3-117
Pyrene	3125	3980	127	74.7-141
1,2,4-Trichlorobenzene	3125	3250	104	74.1-120

**Comments:**

Concentrations reflect the spiked sample amounts.

**Flags:**

\* = Out of limits.

NA = Not applicable.

Reviewed By:     EAW



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-001L
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	80
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	92
Surrogate % Recovery - FID	92

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-1f

Reviewed By: RSJ



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-002DL
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	80
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	89
Surrogate % Recovery - FID	89

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-2f

Reviewed By:



## VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-003
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	74
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	90
Surrogate % Recovery - FID	90

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-3f

Reviewed By: LD



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-004L
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	81
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	220 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	160 (mg/Kg)
Surrogate % Recovery - PID	350***
Surrogate % Recovery - FID	890***

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

\*\*\*= High surrogate recovery due to matrix interference

Lab Info: g663-17-4f

Reviewed By: BJP



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-005SL
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/29/06
Dry Weight	77
Dilution Factor	2
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	28 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	770 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	840 (mg/Kg)
Surrogate % Recovery - PID	470***
Surrogate % Recovery - FID	1200***

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

\*\*\*= High surrogate recovery due to matrix interference

Lab Info: g663-17-5f

Reviewed By:



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-006
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/29/06
Dry Weight	87
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	88
Surrogate % Recovery - FID	92

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-6f

Reviewed By: PKD



## VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TC-007
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	86
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	320 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	330 (mg/Kg)
Surrogate % Recovery - PID	430***
Surrogate % Recovery - FID	740***

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

\*\*\*= High surrogate recovery due to matrix interference

Lab Info: g663-17-7f

Reviewed By:     *REN*



## VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TC-008
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	88
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	20 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	110

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-8f

Reviewed By:



### VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	Trip Blank
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/27/06
Date Analyzed	11/28/06
Dry Weight	100
Dilution Factor	1
C <sub>5</sub> -C <sub>8</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>12</sub> Aliphatics**	< 10 (mg/Kg)
C <sub>9</sub> -C <sub>10</sub> Aromatics**	< 10 (mg/Kg)
Surrogate % Recovery - PID	93
Surrogate % Recovery - FID	93

\* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

\*\* = Excludes any surrogates or internal standards.

Lab Info: g663-17-10b

Reviewed By: RL



Attachment 2

VPH Laboratory Reporting Form

**Calibration and QA/QC Information**

FID Initial Calibration Date: 11/21/06 PID Initial Calibration Date: 11/21/06

**Calibration Ranges and Limits**

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL	
			(µg/L)	(mg/Kg)
C <sub>5</sub> -C <sub>8</sub> Aliphatics	4.4	14	100	10
C <sub>9</sub> -C <sub>12</sub> Aliphatics	3.4	11	100	10
C <sub>9</sub> -C <sub>10</sub> Aromatics	0.13	0.41	100	10

**Calibration Concentration Levels**

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C <sub>5</sub> -C <sub>8</sub> Aliphatics	40	21.8	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C <sub>9</sub> -C <sub>12</sub> Aliphatics	10	24.00	Calibration Factor
	250		
	500		
	750		
	1000		
C <sub>9</sub> -C <sub>10</sub> Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 11/29/06

**Calibration Check**

Range	Levels (µg/L)		RPD
	(mg/Kg)		
C <sub>5</sub> -C <sub>8</sub> Aliphatics	2000	200	-6.2
C <sub>9</sub> -C <sub>12</sub> Aliphatics	500	50	-6.4
C <sub>9</sub> -C <sub>10</sub> Aromatics	500	50	-17.3

MDL = Method Detection Limit  
ML = Minimum Limit  
RL = Reportable Limit

RPD = Relative Percent Difference  
%RSD = Percent Relative Standard Deviation  
CCC = Correlation Coefficient of Curve



## EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-001L
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/28/06
Dry Weight	80.4
Dilution Factor	1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	91
Aromatic Surrogate % Recovery	83

### Comments:

- \* = Excludes any surrogates or internal standards.  
Sample did not require fractionation.

Lab info: G663-17-1H

Reviewed By: RSW



## EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-002DL
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/28/06
Dry Weight	80.3
Dilution Factor	1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	89
Aromatic Surrogate % Recovery	81

### Comments:

- \* = Excludes any surrogates or internal standards.  
Sample did not require fractionation.

Lab info: G663-17-2H

Reviewed By: BP



## EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TA-003
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/28/06
Dry Weight	73.7
Dilution Factor	1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	90
Aromatic Surrogate % Recovery	81

### Comments:

- \* = Excludes any surrogates or internal standards.  
Sample did not require fractionation.

Lab info: G663-17-3H

Reviewed By: BP



## EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-004L
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/30/06
Dry Weight	81.4
Dilution Factor	5:1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	660 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 50 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	100 (mg/Kg)
Aliphatic Surrogate % Recovery	80
Aromatic Surrogate % Recovery	76
Fractionation Surrogate 1 % Recovery	72

### Comments:

\* = Excludes any surrogates or internal standards.

Lab info: G663-17-4H

Reviewed By: RV



## EPH (Aliphatics/Aromatics) Results

*by MDEP-EPH*

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-005SL
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/29/06
Dry Weight	76.9
Dilution Factor	20:2
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	8900 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 200 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	1200 (mg/Kg)
Aliphatic Surrogate % Recovery	NA
Aromatic Surrogate % Recovery	70
Fractionation Surrogate 1 % Recovery	64

**Comments:**

\* = Excludes any surrogates or internal standards.

NA = Non-applicable, surrogate diluted out.

Lab info: G663-17-5H

Reviewed By: Res



## EPH (Aliphatics/Aromatics) Results

*by MDEP-EPH*

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TB-006
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/30/06
Dry Weight	87.4
Dilution Factor	1:1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	12 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	90
Aromatic Surrogate % Recovery	78
Fractionation Surrogate 1 % Recovery	82

**Comments:**

\* = Excludes any surrogates or internal standards.

Lab info: G663-17-6J

Reviewed By: RV



## EPH (Aliphatics/Aromatics) Results

*by MDEP-EPH*

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TC-007
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/30/06
Dry Weight	86.4
Dilution Factor	20:5
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	3700 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 200 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	790 (mg/Kg)
Aliphatic Surrogate % Recovery	NA
Aromatic Surrogate % Recovery	N/A
Fractionation Surrogate 1 % Recovery	N/A

**Comments:**

\* = Excludes any surrogates or internal standards.

NA = Non-applicable, surrogate diluted out.

Lab info: G663-17-7H

Reviewed By:



## EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: RES Environmental Corp.

Project Name: AS-511

Sample Information and Analytical Results	
Sample Identification	AS511-TC-008
Sample Matrix	Soil
Date Collected	11/27/06
Date Received	11/27/06
Date Extracted	11/28/06
Date Analyzed	11/30/06
Dry Weight	87.9
Dilution Factor	1:1
C <sub>9</sub> -C <sub>18</sub> Aliphatics*	24 (mg/Kg)
C <sub>19</sub> -C <sub>36</sub> Aliphatics*	< 10 (mg/Kg)
C <sub>11</sub> -C <sub>22</sub> Aromatics*	< 10 (mg/Kg)
Aliphatic Surrogate % Recovery	86
Aromatic Surrogate % Recovery	76
Fractionation Surrogate 1 % Recovery	84

### Comments:

\* = Excludes any surrogates or internal standards.

Lab info: G663-17-8H

Reviewed By:



## Attachment 3

## EPH Laboratory Reporting Form

<b>Calibration and QA/QC Information</b>
--

Initial Calibration Date: 10/24/06**Calibration Ranges and Limits**

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL	
			(µg/L)	(mg/Kg)
C <sub>9</sub> -C <sub>18</sub> Aliphatics	3.84	12.2	100	10
C <sub>19</sub> -C <sub>36</sub> Aliphatics	0.57	1.8	100	10
C <sub>11</sub> -C <sub>22</sub> Aromatics	4.54	14.4	100	10

**Calibration Concentration Levels**

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C <sub>9</sub> -C <sub>18</sub> Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C <sub>19</sub> -C <sub>36</sub> Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C <sub>11</sub> -C <sub>22</sub> Aromatics	17	0.999	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 11/29/06**Calibration Check**

Range	Levels (µg/mL)	RPD
C <sub>9</sub> -C <sub>18</sub> Aliphatics	120	18.2
C <sub>19</sub> -C <sub>36</sub> Aliphatics	160	15.6
C <sub>11</sub> -C <sub>22</sub> Aromatics	340	-6.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



## Attachment 3

## EPH Laboratory Reporting Form

<b>Calibration and QA/QC Information</b>
--

Initial Calibration Date: 10/24/06**Calibration Ranges and Limits**

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL	
			(µg/L)	(mg/Kg)
C <sub>9</sub> -C <sub>18</sub> Aliphatics	3.84	12.2	100	10
C <sub>19</sub> -C <sub>36</sub> Aliphatics	0.57	1.8	100	10
C <sub>11</sub> -C <sub>22</sub> Aromatics	4.54	14.4	100	10

**Calibration Concentration Levels**

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C <sub>9</sub> -C <sub>18</sub> Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C <sub>19</sub> -C <sub>36</sub> Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C <sub>11</sub> -C <sub>22</sub> Aromatics	17	0.999	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 11/30/06**Calibration Check**

Range	Levels (µg/mL)	RPD
C <sub>9</sub> -C <sub>18</sub> Aliphatics	120	18.9
C <sub>19</sub> -C <sub>36</sub> Aliphatics	160	13.8
C <sub>11</sub> -C <sub>22</sub> Aromatics	340	-6.5

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

**Calibration and QA/QC Information**

Initial Calibration Date: 10/24/06

**Calibration Ranges and Limits**

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL	
			(µg/L)	(mg/Kg)
C <sub>9</sub> -C <sub>18</sub> Aliphatics	3.84	12.2	100	10
C <sub>19</sub> -C <sub>36</sub> Aliphatics	0.57	1.8	100	10
C <sub>11</sub> -C <sub>22</sub> Aromatics	4.54	14.4	100	10

**Calibration Concentration Levels**

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C <sub>9</sub> -C <sub>18</sub> Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C <sub>19</sub> -C <sub>36</sub> Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C <sub>11</sub> -C <sub>22</sub> Aromatics	17	0.999	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 11/28/06

**Calibration Check**

Range	Levels (µg/mL)	RPD
C <sub>9</sub> -C <sub>18</sub> Aliphatics	120	21.5
C <sub>19</sub> -C <sub>36</sub> Aliphatics	160	17.1
C <sub>11</sub> -C <sub>22</sub> Aromatics	340	-8.7

MDL = Method Detection Limit  
 ML = Minimum Limit  
 RL = Reportable Limit

RPD = Relative Percent Difference  
 %RSD = Percent Relative Standard Deviation  
 CCC = Correlation Coefficient of Curve



## List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

### Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.





Mr. Randy Smith  
RES Environmental Corp.  
PO Box 8060  
Camp Lejeune NC 28547

Report Number: G663-15  
Client Project: MCAS AS 511


Dear Mr. Smith:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
Laboratory Director  
J. Patrick Weaver

11/24/06  
Date



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: AS511-001  
 Client Project ID: MCAS AS 511  
 Lab Sample ID: G663-15-1  
 Lab Project ID: G663-15  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected: 11/20/2006 16:00  
 Date Received: 11/20/2006  
 Matrix: Soil  
 Solids 87.12

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	1300	82.4	5035	20	11/22/06
Diesel Range Organics	8560	358	3541	50	11/22/06

Comments:

Flags:



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: AS511-002  
 Client Project ID: MCAS AS 511  
 Lab Sample ID: G663-15-2  
 Lab Project ID: G663-15  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected: 11/20/2006 16:00  
 Date Received: 11/20/2006  
 Matrix: Soil  
 Solids 88.15

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	<b>1560</b>	86.4	5035	20	11/22/06
Diesel Range Organics	<b>5760</b>	350	3541	50	11/24/06

Comments:

Flags:



## Results for Metals

Client Sample ID: AS511-001  
 Client Project ID: MCAS AS 511  
 Lab Sample ID: G663-15-3  
 Lab Project ID: G663-15  
 Batch ID: 6747 6751

Analyzed By: PSW  
 Date Collected: 11/20/2006 16:00  
 Date Received: 11/20/2006  
 Matrix: Leachate

Metals TCLP	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.200	1	MG/L	6010B	11/24/2006
Barium	BQL	5.00	1	MG/L	6010B	11/24/2006
Cadmium	BQL	0.100	1	MG/L	6010B	11/24/2006
Chromium	BQL	0.100	1	MG/L	6010B	11/24/2006
Lead	BQL	0.100	1	MG/L	6010B	11/24/2006
Mercury	BQL	0.000570	1	MG/L	7470	11/22/2006
Selenium	BQL	0.200	1	MG/L	6010B	11/22/2006
Silver	BQL	0.100	1	MG/L	6010B	11/24/2006

**Comments**

BQL = Below Quantitation Limits  
 DF = Dilution Factor  
 J = Between MDL and RL  
 B= Amount in Prep Blank > MDL

Reviewed By:   
 MET\_LIMS\_4.1.XLS



## List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

### Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.





Mr. Randy Smith  
RES Environmental Corp.  
PO Box 8060  
Camp Lejeune NC 28547

Report Number: G663-16

Client Project: AS-511

Dear Mr. Smith:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,  
SGS/Paradigm Analytical Laboratories, Inc.

  
\_\_\_\_\_  
Laboratory Director                      11/29/2006  
Date  
J. Patrick Weaver



**Results for Total Petroleum Hydrocarbons**  
by GC/FID 8015

Client Sample ID: BPBF-001-2'  
 Client Project ID: AS-511  
 Lab Sample ID: G663-16-1  
 Lab Project ID: G663-16  
 Report Basis: Dry Weight

Analyzed By: BWS  
 Date Collected: 11/21/2006 10:05  
 Date Received: 11/21/2006  
 Matrix: Soil  
 Solids 90.48

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.43	5035	1	11/22/06
Diesel Range Organics	BQL	6.83	3541	1	11/27/06

Flags:



**Results for Volatiles  
by GCMS 8260B TCLP**

Client Sample ID: BPBF-001-2'  
Client Project ID: AS-511  
Lab Sample ID: G663-16-2A  
Lab Project ID: G663-16

Analyzed By: MJC  
Date Collected: 11/21/2006 10:05  
Date Received: 11/21/2006  
Matrix: Leachate

Compound	Result MG/L	Quantitation Limit MG/L	Dilution Factor	Date Analyzed
Benzene	BQL	0.0100	10	11/27/2006
2-Butanone (MEK)	BQL	0.250	10	11/27/2006
Carbon tetrachloride	BQL	0.0100	10	11/27/2006
Chlorobenzene	BQL	0.0100	10	11/27/2006
Chloroform	BQL	0.0100	10	11/27/2006
1,4-Dichlorobenzene	BQL	0.0100	10	11/27/2006
1,1-Dichloroethene	BQL	0.0100	10	11/27/2006
1,2-Dichloroethane	BQL	0.0100	10	11/27/2006
Tetrachloroethene	BQL	0.0100	10	11/27/2006
Trichloroethene	BQL	0.0100	10	11/27/2006
Vinyl chloride	BQL	0.0100	10	11/27/2006
		<b>Spike Added</b>	<b>Spike Result</b>	<b>Percent Recovered</b>
4-Bromofluorobenzene		0.01	0.00981	98
1,2-Dichloroethane-d4		0.01	0.0101	101
Toluene-d8		0.01	0.00998	100

**Comments:**

**Flags:**

BQL = Below Quantitation Limits.

Reviewed By: RAM



**Results for Pesticides**  
by EPA 8081

Client Sample ID: BPBF-001-2'  
Client Project ID: AS-511  
Lab Sample ID: G663-16-3G  
Lab Project ID: G663-16  
Sample Wt/Vol: 50 ML

Analyzed By: DCS  
Date Collected: 11/21/06 10:05  
Date Received: 11/21/06  
Date Extracted: 11/27/06  
ColumnID: STX\_CLPest Matrix: Leachate

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed	Flags
alpha-BHC	BQL	3.00	1	11/28/06	
beta-BHC	BQL	3.00	1	11/28/06	
delta-BHC	BQL	3.00	1	11/28/06	
gamma-BHC (Lindane)	BQL	3.00	1	11/28/06	
Heptachlor	BQL	3.00	1	11/28/06	
Aldrin	BQL	3.00	1	11/28/06	
Heptachlor epoxide	BQL	3.00	1	11/28/06	
Endosulfan I	BQL	3.00	1	11/28/06	
Dieldrin	BQL	3.00	1	11/28/06	
4,4'-DDE	BQL	3.00	1	11/28/06	
Endrin	BQL	3.00	1	11/28/06	
DDD	BQL	3.00	1	11/28/06	
Endosulfan II	BQL	3.00	1	11/28/06	
4,4'-DDT	BQL	3.00	1	11/28/06	
Methoxychlor	BQL	3.00	1	11/28/06	
Toxaphene	BQL	10.0	1	11/28/06	
alpha-Chlordane	BQL	3.00	1	11/28/06	
gamma-Chlordane	BQL	3.00	1	11/28/06	
Chlordane, Total	BQL	5.00	1	11/28/06	
Endrin aldehyde	BQL	3.00	1	11/28/06	
Endosulfan sulfate	BQL	3.00	1	11/28/06	
Endrin ketone	BQL	3.00	1	11/28/06	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	46.4	46.4

**Comments:**

BQL = Below Quantitation Limit

Reviewed By: RMU



**Results for Semivolatiles  
by GCMS 8270-TCLP**

Client Sample ID: BPBF-001-2'  
Client Project ID: AS-511  
Lab Sample ID: G663-16-3D  
Lab Project ID: G663-16

Analyzed By: EAW  
Date Collected: 11/21/2006 10:05  
Date Received: 11/21/2006  
Date Extracted: 11/27/2006  
Matrix: Leachate

Compound	Result mg/L	RL mg/L	Dilution Factor	Date Analyzed
1,4-Dichlorobenzene	BQL	0.010	1	11/29/2006
2,4-Dinitrotoluene	BQL	0.010	1	11/29/2006
Hexachlorobenzene	BQL	0.010	1	11/29/2006
Hexachlorobutadiene	BQL	0.010	1	11/29/2006
Hexachloroethane	BQL	0.010	1	11/29/2006
2-Methylphenol	BQL	0.010	1	11/29/2006
3- & 4-Methylphenol	BQL	0.010	1	11/29/2006
Nitrobenzene	BQL	0.010	1	11/29/2006
Pentachlorophenol	BQL	0.050	1	11/29/2006
Pyridine	BQL	0.010	1	11/29/2006
2,4,5-Trichlorophenol	BQL	0.010	1	11/29/2006
2,4,6-Trichlorophenol	BQL	0.010	1	11/29/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.7	87
2-Fluorophenol	10	7	70
Nitrobenzene-d5	10	9.3	93
Phenol-d6	10	8.8	88
2,4,6-Tribromophenol	10	8.9	89
4-Terphenyl-d14	10	11.3	113

**Comments:****Flags:**

BQL = Below Quantitation Limits.

Reviewed By: RM

**Results for TCLP Herbicides**  
by EPA 8151

Client Sample ID: BPBF-001-2'  
Client Project ID: AS-511  
Lab Sample ID: G663-16-3K  
Lab Project ID: G663-16

Analyzed By: DCS  
Date Collected: 11/21/2006 10:05  
Date Received: 11/21/2006  
Matrix: Leachate

<b>Compound</b>	<b>Result mg/L</b>	<b>Quantitation Limit mg/L</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
2,4-D	BQL	0.400	1	11/29/2006
2,4,5-TP(Silvex)	BQL	0.100	1	11/29/2006

Reviewed By: BM



### Results for Metals

Client Sample ID: BPBF-001-2'  
 Client Project ID: AS-511  
 Lab Sample ID: G663-16-3  
 Lab Project ID: G663-16  
 Batch ID: 6765 6770

Analyzed By: PSW  
 Date Collected: 11/21/2006 10:05  
 Date Received: 11/21/2006  
 Matrix: Leachate

Metals TCLP	Result	RL	DF	Units	Method	Date Analyzed
Arsenic	BQL	0.200	1	MG/L	6010B	11/28/2006
Barium	BQL	5.00	1	MG/L	6010B	11/28/2006
Cadmium	BQL	0.100	1	MG/L	6010B	11/28/2006
Chromium	BQL	0.100	1	MG/L	6010B	11/28/2006
Lead	BQL	0.100	1	MG/L	6010B	11/28/2006
Mercury	BQL	0.000570	1	MG/L	7470	11/28/2006
Selenium	BQL	0.200	1	MG/L	6010B	11/28/2006
Silver	BQL	0.100	1	MG/L	6010B	11/28/2006

#### Comments

BQL = Below Quantitation Limits  
 DF = Dilution Factor  
 J = Between MDL and RL  
 B= Amount in Prep Blank > MDL

Reviewed By: RM  
 MET\_LIMS\_4.1.XLS



## Results for Inorganics

Client Sample ID: BPBF-001-2'  
Client Project ID: AS-511  
Lab Sample ID: G663-16-1F  
Lab Project ID: G663-16

Analyzed By: AEC  
Date Collected: 11-21-2006 10:05  
Date Received: 11-21-2006 12:50  
Matrix: Soil

Parameter	Result	Units	Procedure	Date Analyzed
pH	7.51	S.U.	9045	11-28-2006 16:15
Temperature	23.8	°C		

**Comments:**

Samples analyzed out of 15 minute hold time.

Reviewed By: RM  
pH\_LIMS\_v0.1



**Results for Ignitability  
by EPA 1030**

Client Sample ID: BPBF-001-2'  
 Client Project ID: AS-511  
 Lab Sample ID: G663-16-1A  
 Lab Project ID: G663-16

Analyzed By: BAO  
 Date Collected: 11/21/2006 10:05  
 Date Received: 11/21/06  
 Matrix: Soil

Parameter	Result	Units	Date Analyzed
Ignitability	< 0.8	mm/sec	11/28/06

**Comments:**

Reviewed By: Rm



### Analytical Results

Client Sample ID: BPBF-001-2'  
 Client Project ID: AS-511  
 Lab Sample ID: G663-16-1  
 Lab Project ID: G663-16

Date Collected: 11/21/2006  
 Date Received: 11/21/2006  
 Matrix: Soil

Analyte	Result	RL	Units	Method	Date Analyzed	Analyst
Reactive Cyanide	BQL	0.121	mg/Kg	EPA335.2	11/28/2006	EnviroChem
Reactive Sulfide	BQL	0.25	mg/Kg	SM4500D	11/27/2006	EnviroChem

#### Comments

BQL = Below Quantitation Limits  
 DF = Dilution Factor  
 RL = Report Limit

Sample reported on an as received basis

Reviewed By:   
 subout\_LIMS\_v1.3



## List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

### Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.



**Appendix E:  
Waste Manifest**

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## AS-511 T&D Log

<u>Date</u>	<u>Manifest #</u>	<u>Gross Wt. (lbs)</u>	<u>Tare Wt.</u>	<u>Net Wt.</u>	<u>Net Tonnage(T)</u>
11/27/2006	AS060097	81,060	33,620	47,440	23.72
11/27/2006	AS060098	78,520	33,000	45,520	22.76
11/27/2006	AS060099	79,720	33,000	46,720	23.36
11/27/2006	AS060100	79,880	33,620	46,260	23.13
11/29/2006	AS060101	80,100	33,000	47,100	23.55
11/29/2006	AS060102	81,860	33,620	48,240	24.12
11/29/2006	AS060103	82,100	33,620	48,480	24.24
11/29/2006	AS060104	78,880	33,000	45,880	22.94
11/30/2006	AS060105	79,600	33,620	45,980	22.99
11/30/2006	AS060106	80,680	33,000	47,680	23.84
12/4/2006	AS060107	82,120	33,000	49,120	24.56
12/4/2006	AS060108	80,640	32,460	48,180	24.09
12/4/2006	AS060109	79,420	32,500	46,920	23.46
12/4/2006	AS060110	79,120	32,460	46,660	23.30
12/4/2006	AS060111	82,320	33,000	49,320	24.66
12/4/2006	AS060112	79,860	32,500	47,360	23.68
12/4/2006	AS060113	82,980	32,460	50,520	25.26
12/4/2006	AS060114	80,740	33,000	47,740	23.87
12/4/2006	AS060115	80,180	32,500	47,680	23.84
12/5/2006	AS060116	82,440	32,500	49,740	24.87
12/5/2006	AS060117	83,680	33,000	50,680	25.34
12/5/2006	AS060118	55,600	32,500	23,100	11.55
12/5/2006	AS060119	77,000	33,000	44,000	22.00

**Total Tonnage:** 535.13 Net  
**Total Weight:** 1,070,320 lbs.

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # 15060097

Site: <u>MCAS RAPID REFUELLER</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP. 290 RIVER OAKS DR. STELLA, NC 28582</u>		US EPA ID Number: <u>910-389-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC. 1555 HOLLAND DR. ANTRYVILLE, NC 28318</u>		US EPA ID Number: <u>910-567-6138</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>81,060</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>33,620</u>	<u>TARE</u>
			<u>42,440</u>	<u>NET</u>
			<u>23.72</u>	<u>TONS</u>
Container/Tag Number: <u>Lab: <u>SGS ENVIRONMENTAL SERVICES</u></u>	Profile #: _____			
Additional Information and Discrepancy Indication: <u>TRK # 01</u> <u>CDL # 5637061</u>				
<b>GENERATOR'S STATEMENT:</b> The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>LARRY LANIER</u>	<u>Larry Lanier</u>	<u>11-27-06</u>		
Transporter's Name	Signature:	Date:		
<u>Tim Puffin</u>	<u>Tim Puffin</u>	<u>11/27/06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reck W...</u>	<u>11-27-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # A5060098

Site: MCAS TRAPID REFUELER Page 1 of 1

Generator's Name & Mailing Address: **COMMANDING GENERAL**  
 AC/S, I&E (EMD)  
 MARINE CORPS BASE  
 PSC BOX 20004  
 CAMP LEJEUNE, NC 28542-0004  
 US EPA ID Number: NC6170022580  
 Generator's Telephone #: (910) 451-1482

Transporter's Name, Mailing Address & Telephone Number: **RES ENVIRONMENTAL CORP**  
 290 RIVER OAKS DR. SILLA, NC 28582  
 910-389-2365  
 US EPA ID Number: \_\_\_\_\_

Destination's Name, Mailing Address & Telephone Number: **ES&J ENTERPRISES, INC.**  
 1555 HOLLAND DR. AVTRYVILLE, NC 28318  
 910-567-6139  
 US EPA ID Number: \_\_\_\_\_

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
PETROLEUM CONTAMINATED SOILS	001	DT	78,520	LBS
NON-HAZARDOUS			33,000	TARE
			45,520	NET
			22.76	TENS

Container/Tag Number: \_\_\_\_\_ Profile #: \_\_\_\_\_  
 Lab: SGS ENVIRONMENTAL SERVICES

Additional Information and Discrepancy Indication:  
TRK # RES 02 CDL # 24117356

**GENERATOR'S STATEMENT:** The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:

Printed/Typed Name	Signature:	Date:
LARRY LAMIER	<i>Larry Lamier</i>	11-27-06
Transporter's Name	Signature:	Date:
JASON SANDERSON	<i>Jason Sanderson</i>	11-27-06
Accepting Facility	Signature:	Date:
ES&J	<i>Reck W. Spr...</i>	11-27-06

Return Original form to Generator



# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # A5060100

Site: <u>MCAS RAPID REFUELER</u>			Page 1 of 1		
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>			
Generator's Telephone #:	<u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP. 290 RIVER OAKS DR. STELLA, NC 28582</u>		US EPA ID Number: _____			
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLAND DR. AVITYVILLE, NC 28318</u>		US EPA ID Number: _____			
Waste Shipping Name and Description	Containers		Total Quantity	Units	
	Number	Type			
	<u>PETROLEUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>29880</u>	<u>LBS</u>
	<u>NON-HAZARDOUS</u>			<u>33620</u>	<u>TARE</u>
				<u>46260</u>	<u>NET</u>
			<u>23.13</u>	<u>TONS</u>	
Container/Tag Number: <u>Lab: SGS ENVIRONMENTAL SERVICES</u>		Profile #: _____			
Additional Information and Discrepancy Indication: <u>TRUCK # 01</u> <u>CDL # 5637061</u>					
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:					
Printed/Typed Name		Signature:		Date:	
<u>Larry Lanier</u>		<u>Larry Lanier</u>		<u>11-27-06</u>	
Transporter's Name		Signature:		Date:	
<u>Tim Ruffin</u>		<u>Tim Ruffin</u>		<u>11-27-06</u>	
Accepting Facility		Signature:		Date:	
<u>ESEJ</u>		<u>Rick Wynn</u>		<u>11-27-06</u>	

Return Original form to Generator



# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # AS060102

Site: <u>MCAS Rapid Refueler</u>		Page 1 of		
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number: <u>R.E.S. Environmental Corp 290 RIVER OAKS DR. STELLA, N.C. 28582</u>		US EPA ID Number: <u>910-359-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J Enterprises, Inc 1555 HOLLAND DR. AURRYVILLE, N.C. 28318</u>		US EPA ID Number: <u>910-567-6138</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soils</u>	<u>001</u>	<u>DT</u>	<u>81860</u>	<u>LBS</u>
<u>Non-Hazardous</u>			<u>33620</u>	<u>TARE</u>
			<u>48240</u>	<u>Net</u>
			<u>24.12</u>	<u>TONS</u>
Container/Tag Number:	Profile #:			
Lab: <u>SGS Environmental Services</u>				
Additional Information and Discrepancy Indication: <u>TRK# 01</u> <u>COL# 5637061</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>11-27-06</u>		
Transporter's Name	Signature:	Date:		
<u>Tim Ruffin</u>	<u>Tim Ruffin</u>	<u>11/29/06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reck Wynn</u>	<u>11-29-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # A5060103

Site: <u>MUS RAPID REVEAL</u>			Page 1 of 1	
Generator's Name & Mailing Address:		COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004		US EPA ID Number: <u>NC6170022580</u>
Generator's Telephone #:		<u>(910) 451-1482</u>		
Transporter's Name, Mailing Address & Telephone Number:			US EPA ID Number: _____	
<u>RES ENVIRONMENTAL CORP</u> <u>290 RIVER OAKS DR. 28582 STELLA, NC</u>			<u>910-389-2365</u>	
Destination's Name, Mailing Address & Telephone Number:			US EPA ID Number: _____	
<u>ES&amp;J ENTERPRISES, INC.</u> <u>1555 HOLLAND DR. ANTRVILLE, NC 28318</u>			<u>910-567-6138</u>	
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOIL</u>	<u>001</u>	<u>DT</u>	<u>82,100</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>33,620</u>	<u>TARE</u>
			<u>48,480</u>	<u>NET</u>
			<u>24.24</u>	<u>TONS</u>
Container/Tag Number:		Profile #:		
Lab: <u>SGS ENVIRONMENTAL SERVICES</u>				
Additional Information and Discrepancy Indication: <u>TRUCK # 01</u> <u>CDL # 5637061</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:		Date:	
<u>Larry Lanier</u>	<u>Larry Lanier</u>		<u>29</u> <u>11-29-06</u>	
Transporter's Name	Signature:		Date:	
<u>Tim Ruffin</u>	<u>Tim Ruffin</u>		<u>11/29/06</u>	
Accepting Facility	Signature:		Date:	
<u>ES&amp;J</u>	<u>Reck White</u>		<u>11-29-06</u>	

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # 15060104

Site: <u>MCAS TRAVIS PETERLEER</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>TES ENVIRONMENTAL CORP. 280 RIVER OAKS DR. STELLA, NC 28582 910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ESDJ ENTERPRISES, INC. 1555 HOLLAND DR. AVIRYVILLE, NC 28318 910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOIL</u>	<u>801</u>	<u>DT</u>	<u>28,880</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>33,000</u>	<u>DARE</u>
			<u>45,880</u>	<u>NET</u>
			<u>22.94</u>	<u>TONS</u>
Container/Tag Number: <u>Lab: SG5 ENVIRONMENTAL SERVICES</u>		Profile #: _____		
Additional Information and Discrepancy Indication: <u>TRUCK # TES-02 CDL # 24117356</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>11-29-06</u>		
Transporter's Name	Signature:	Date:		
<u>Jason Sordessa</u>	<u>Jason Sordessa</u>	<u>11-29-06</u>		
Accepting Facility	Signature:	Date:		
<u>RES&amp;I</u>	<u>Rick Winters</u>	<u>11-29-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS060105

Site: <u>MCA5 RAPID Refueler</u>	Page 1 of			
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>				
US EPA ID Number: <u>NC6170022580</u>				
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP 240 RIVER OAKS DR STELLA NC 28582 910-389-2365</u>				
US EPA ID Number: _____				
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLAND DR AURIVILLE, NC 28318 910-567-6388</u>				
US EPA ID Number: _____				
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soils</u>	<u>001</u>	<u>DT</u>	<u>19600</u>	<u>LBS</u>
<u>NON-Hazardous</u>			<u>33620</u>	<u>TARE</u>
			<u>45986</u>	<u>NET</u>
			<u>2299</u>	<u>TONS</u>
Container/Tag Number: <u>Lab: <u>SGS ENVIRONMENTAL SERVICES</u></u>	Profile #: _____			
Additional Information and Discrepancy Indication: <u>TRK # RES 01 CDL # 5637061</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>11-30-06</u>		
Transporter's Name	Signature:	Date:		
<u>Tim Ruffin</u>	<u>Tim Ruffin</u>	<u>11/30/06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J Enterprises, Inc</u>	<u>James Jarne</u>	<u>11/30/06</u>		

Return Original form to Generator



# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: 15060107

Site: <u>MCAS RAPID REFUELER</u>			Page 1 of	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP 290 RIVER OAKS DR STELLA NC 28582</u>		US EPA ID Number: <u>910-389-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>EST J ENTERPRISES, INC 1555 HOLLAND DR ATRYVILLE, NC 28318</u>		US EPA ID Number: <u>910-567-6138</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM Contaminated Soils</u>	<u>001</u>	<u>DT</u>	<u>92120</u>	<u>LBS</u>
<u>Non-Hazardous</u>			<u>33,000</u>	<u>TARE</u>
			<u>49120</u>	<u>NET</u>
			<u>24.56</u>	<u>TONS</u>
Container/Tag Number: <u>Lab: <u>SGS ENVIRONMENTAL SERVICES</u></u>		Profile #:		
Additional Information and Discrepancy Indication:				
<b>GENERATOR'S STATEMENT:</b> The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by: <u>TRK # RES 02</u> <u>CDL # 24117356</u>				
Printed/Typed Name		Signature:	Date:	
<u>Larry Lanier</u>		<u>Larry Lanier</u>	<u>12-4-06</u>	
Transporter's Name		Signature:	Date:	
<u>Scam Schwa</u>		<u>Scam Schwa</u>	<u>12-22-06</u>	
Accepting Facility		Signature:	Date:	
<u>ES&amp;J</u>		<u>Reck Jones</u>	<u>12-4-06</u>	

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS060109

Site: <u>MCAS RAPID REFUELER</u>		Page 1 of		
Generator's Name & Mailing Address: COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number: <u>KES ENVIRONMENTAL CORP</u> <u>290 RIVER OAKS DR, STELLA, NC 28582</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC</u> <u>1555 HOLLAND DR, AULRYVILLE, NC 28318</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers	Total Quantity	Units	
	Number	Type		
			<u>80640</u>	
	<u>Petroleum Contaminated Soils</u>	<u>001</u>	<u>DT</u>	<u>LBS</u>
	<u>NON-HAZARDOUS</u>		<del>32460</del> <u>44180</u>	<u>TARE</u> <u>NET</u>
		<u>24.09</u>	<u>TONS</u>	
Container/Tag Number:	Profile #:			
Lab: <u>SES ENVIRONMENTAL SERVICES</u>				
Additional Information and Discrepancy Indication: <u>TRK ES&amp;J 160</u> <u>CDL# 3753391</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-4-06</u> <del>11-22-06</del>		
Transporter's Name	Signature:	Date:		
<u>Johnny Tanner</u>	<u>Johnny Tanner</u>	<u>12-4-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Rick Wm.</u>	<u>12-4-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # AS060109

Site: <u>MICAS RAPID Refueler</u>			Page 1 of	
Generator's Name & Mailing Address: COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP</u> <u>290 River Oaks DR STELLA NC 28582</u> <u>910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC</u> <u>1535 HOLLAND DR, Autryville, N.C. 28318</u> <u>910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLUM Contaminated Soils</u>	<u>001</u>		<u>79420</u>	<u>LBS</u>
<u>NON - Hazardous</u>			<u>32500</u>	<u>TARE</u>
			<u>46920</u>	<u>NET</u>
			<u>23.40</u>	<u>TONS</u>
Container/Tag Number: Lab: <u>SGS ENVIRONMENTAL SERVICES</u>		Profile #:		
Additional Information and Discrepancy Indication: <u>TRK # 01</u> <u>CDL # 5637061</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-04-06</u> <u>12-27-06</u>		
Transporter's Name	Signature:	Date:		
<u>Tim Ruffin</u>	<u>Tim Ruffin</u>	<u>12/4/06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reed Wm.</u>	<u>12-4-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document # AS06110

Site: <u>MCRS RAPID REFUELER</u>		Page 1 of 1			
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>			
Generator's Telephone #: <u>(910) 451-1482</u>					
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP 290 RIVER OAKS DR STELLA, NC 28582</u>		US EPA ID Number: _____			
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLAND DR, AURIVILLE NC 28318</u>		US EPA ID Number: _____			
Waste Shipping Name and Description	Containers		Total	Units	
	Number	Type	Quantity		
	<u>PETROLEUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>79120</u>	<u>LBS</u>
	<u>NON-HAZARDOUS</u>			<u>32460</u>	<u>TARE</u>
				<u>46600</u>	<u>NET</u>
			<u>23.30</u>	<u>TONS</u>	
Container/Tag Number: _____		Profile #: _____			
Lab: <u>SGS ENVIRONMENTAL SERVICES</u>					
Additional Information and Discrepancy Indication: <u>TRK # 160</u> <u>CDL # 3753391</u>					
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:					
Printed/Typed Name		Signature:	Date:		
<u>LARRY Lanier</u>		<u>Larry Lanier</u>	<u>12-4-06</u> <u>H 2706</u>		
Transporter's Name		Signature:	Date:		
<u>Johnny Tanner</u>		<u>Johnny Tanner</u>	<u>12-4-06</u>		
Accepting Facility		Signature:	Date:		
<u>ES&amp;J</u>		<u>Buck Wm</u>			

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: 175060111

Site: <u>MCAS RAPID REUELER</u>		Page 1 of 1		
Generator's Name & Mailing Address: COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP</u> <u>290 RIVER OAKS DR. STELLA, NC 28582</u>		US EPA ID Number: _____ <u>910-389-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC</u> <u>1555 HOLLAND DR. AUTYVILLE, NC 28318</u>		US EPA ID Number: _____ <u>910-567-6138</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>82320</u>	<u>LBS</u>
			<u>33000</u>	<u>TARE</u>
			<u>49320</u>	<u>NET</u>
			<u>24.66</u>	<u>TONS</u>
Container/Tag Number:	Profile #:			
Lab: <u>SGS ENVIRONMENTAL SERVICES</u>				
Additional Information and Discrepancy Indication: <u>TRK #</u> <u>CDL #</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>LARRY Lanier</u>	<u>Larry Lanier</u>	<u>12-4-06</u> <u>11-27-06</u>		
Transporter's Name	Signature:	Date:		
<u>Jason Sanderson</u>	<u>Jason Sanderson</u>	<u>12-4-06</u>		
Accepting Facility	Signature:	Date:		
<u>Shelby Royal</u>	<u>Shelby Royal</u>	<u>12-4-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06112

Site: <u>MCAS RAPID REFUELER</u>			Page 1 of 1		
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>			US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>					
Transporter's Name, Mailing Address & Telephone Number: <u>KES ENVIRONMENTAL CORP 290 RIVER OAKS DR, STELLA, N.C. 28582</u>			US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLAND DR. AUSTINVILLE N.C. 28318</u>			US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units	
	Number	Type			
<u>PETROLUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>79860</u>	<u>LBS</u>	
			<u>32500</u>	<u>TARE</u>	
			<u>47360</u>	<u>NET</u>	
			<u>23.68</u>	<u>TONS</u>	
Container/Tag Number: _____			Profile #: _____		
Lab: <u>SGS ENVIRONMENTAL SERVICES</u>					
Additional Information and Discrepancy Indication: <u>TRK # 01</u>			<u>CDL # 567061</u>		
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:					
Printed/Typed Name		Signature:		Date:	
<u>LARRY LANIER</u>		<u>[Signature]</u>		<u>12-4-06</u>	
Transporter's Name		Signature:		Date:	
<u>Tim Ruffin</u>		<u>[Signature]</u>		<u>12-4-06</u>	
Accepting Facility		Signature:		Date:	
<u>Shelby Royal</u>		<u>[Signature]</u>		<u>12-4-06</u>	

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06113

Site: <u>MCAS RAPID REFUELER</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL, CORP 290 RIVER OAKS DR STELLA, N.C. 28580 910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLANS DR AUTRYVILLE N.C. 28318 910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOILS</u>	<u>001</u>	<u>DT</u>	<u>82980</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>32460</u>	<u>TARE</u>
			<u>50520</u>	<u>NET</u>
			<u>2526</u>	<u>TONS</u>
Container/Tag Number: Lab: <u>SGS ENVIRONMENTAL SERVICES</u>		Profile #: _____		
Additional Information and Discrepancy Indication: <u>TRK ES&amp;J 160</u> <span style="float: right;"><u>CDL # 3753391</u></span>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name		Signature:		Date:
<u>Larry Lanier</u>		<u>Larry Lanier</u>		<u>12-4-06</u>
Transporter's Name		Signature:		Date:
<u>Johnny Tanner</u>		<u>Johnny Tanner</u>		<u>12-4-06</u>
Accepting Facility		Signature:		Date:
<u>ES&amp;J</u>		<u>Reck White</u>		<u>12-4-06</u>

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06114

Site: <u>MCAS RAPID REFUELER</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL, CORP 290 RIVER DR STELLA, N.C. 28587 910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLANS DR AURRYVILLE, N.C. 28318 910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOIL</u>	<u>001</u>	<u>DT</u>	<u>80740</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>33000</u>	<u>TARE</u>
			<u>47740</u>	<u>NET</u>
			<u>23.87</u>	<u>TONS</u>
Container/Tag Number: _____		Profile #: _____		
Lab: <u>SG-S ENVIRONMENTAL SERVICES</u>				
Additional Information and Discrepancy Indication: <u>TRK # RES-02</u> <u>CDL #</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-4-06</u>		
Transporter's Name	Signature:	Date:		
<u>Jason Sanders</u>	<u>Jason Sanders</u>	<u>12-4-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reed W. Smith</u>	<u>12-4-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06115

Site: <u>MICAS RAPID REFUELER</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL, CORP 290 RIVER OAKS DR. STELLA N.C. 28587 910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLANS DR. AURIVILLE, N.C. 28318 910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETROLEUM CONTAMINATED SOIL</u>	<u>001</u>	<u>DT</u>	<u>80180</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>32500</u>	<u>TARE</u>
			<u>47680</u>	<u>NET</u>
			<u>23.84</u>	<u>TONS</u>
Container/Tag Number: Lab: <u>SGS ENVIRONMENTAL SERVICES</u>		Profile #: _____		
Additional Information and Discrepancy Indication: <u>TRK # RES 01</u> <u>CDL# 5637061</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name		Signature:		Date:
<u>Larry Lanier</u>		<u>Larry Lanier</u>		<u>12-4-06</u>
Transporter's Name		Signature:		Date:
<u>Teri Reff</u>		<u>Teri Reff</u>		<u>12/4/06</u>
Accepting Facility		Signature:		Date:
<u>ES&amp;J</u>		<u>Reff</u>		<u>12-5-06</u>

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06116

Site: <u>MCAS Rapid Refueler</u>		Page 1 of 1		
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #:	<u>(910) 451-1482</u>			
Transporter's Name, Mailing Address & Telephone Number: <u>RES Environmental Corp 290 River Oaks Rd, Stella 28582</u>		US EPA ID Number: <u>910-389-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>E.S. &amp; S. Enterprises INC 1555 Holland Dr, Aubreyville NC, 28518</u>		US EPA ID Number: <u>910-567-6139</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated So.</u>	<u>100</u>	<u>57</u>	<u>42240</u>	<u>3m</u>
<u>Now - HAZAR US</u>			<u>32500</u>	<u>TRUCK</u>
			<u>49740</u>	<u>100</u>
			<u>24.87</u>	<u>TONS</u>
Container/Tag Number:	Profile #:			
Lab: <u>SGS Environmental Services</u>				
Additional Information and Discrepancy Indication: <u>Trk # RES # 01</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-5-06</u>		
Transporter's Name	Signature:	Date:		
<u>[Signature]</u>	<u>[Signature]</u>	<u>12-5-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>[Signature]</u>	<u>12-5-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06117

Site: <u>MCAS Rapid Refueler</u>		Page 1 of 1		
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES Environmental 290 River Oaks Rd Stella, 28582</u>		US EPA ID Number: <u>910-389-2365</u>		
Destination's Name, Mailing Address & Telephone Number: <u>E.S. &amp; S Enterprises INC. 155 Holland Dr Autayville N.C. 28318</u>		US EPA ID Number: <u>910-567-6138</u>		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soil</u>	<u>001</u>	<u>OT</u>	<u>83680</u>	<u>lbs</u>
<u>Non-Hazardous</u>			<u>33000</u>	<u>TRUCK</u>
			<u>50680</u>	<u>NET</u>
			<u>25.39</u>	<u>TONS</u>
Container/Tag Number: Lab: <u>SGS Environmental Services</u>		Profile #:		
Additional Information and Discrepancy Indication: <u>TRK # RES # 02</u> <span style="float: right;"><u>COL # 24117356</u></span>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-5-06</u>		
Transporter's Name	Signature:	Date:		
<u>Jason Soderstrom</u>	<u>Jason Soderstrom</u>	<u>12-5-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;S</u>	<u>Richard</u>	<u>12-5-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: AS06118

Site: <u>MCAS RAPID RELIEF</u>		Page 1 of 1		
Generator's Name & Mailing Address: COMMANDING GENERAL AC/S, I&E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP</u> <u>290 RIVER OAKS DR STELLA, N.C. 28587</u> <u>910-389-2365</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC</u> <u>1555 HOLLAND DR. AULTONVILLE, N.C. 28318</u> <u>910-567-6138</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soil</u>	<u>001</u>	<u>DT</u>	<u>55600</u>	<u>LBS</u>
<u>NON-HAZARDOUS</u>			<u>32500</u>	<u>TARE</u>
			<u>23100</u>	<u>NET</u>
			<u>11.55</u>	<u>TONS</u>
Container/Tag Number: _____		Profile #: _____		
Lab: <u>SGS ENVIRONMENTAL SERVICES</u>				
Additional Information and Discrepancy Indication: <u>TRK # RES 01</u> <span style="float: right;"><u>COL-5637061</u></span>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-05-06</u> <u>12-04-06</u>		
Transporter's Name	Signature:	Date:		
<u>Tim Ruffin</u>	<u>Tim Ruffin</u>	<u>12-5-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reed Wynn</u>	<u>12-5-06</u>		

Return Original form to Generator

# Marine Corps Base, Camp Lejeune Non-Hazardous Waste Shipping Document

Document #: ~~ASD6119~~  
ASD6119

Site: <u>MICAS RAPID REFUELED</u>			Page 1 of 1	
Generator's Name & Mailing Address: <u>COMMANDING GENERAL AC/S, I&amp;E (EMD) MARINE CORPS BASE PSC BOX 20004 CAMP LEJEUNE, NC 28542-0004</u>		US EPA ID Number: <u>NC6170022580</u>		
Generator's Telephone #: <u>(910) 451-1482</u>				
Transporter's Name, Mailing Address & Telephone Number: <u>RES ENVIRONMENTAL CORP 290 RIVER OAKS DR, STELLA, N.C. 28587</u>		US EPA ID Number: _____		
Destination's Name, Mailing Address & Telephone Number: <u>ES&amp;J ENTERPRISES, INC 1555 HOLLAND DR, AURRYVILLE, N.C. 28318</u>		US EPA ID Number: _____		
Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>PETroleum CONTAMINATED SOIL NON-Hazardous</u>	<u>001</u>	<u>DT</u>	<u>77000</u>	<u>LBS</u>
			<u>33000</u>	<u>TARE</u>
			<u>44000</u>	<u>NET</u>
			<u>22.00</u>	<u>TONS</u>
Container/Tag Number: _____		Profile #: _____		
Lab: <u>SGS ENVIRONMENTAL Services</u>				
Additional Information and Discrepancy Indication: <u>TRK # RES-02</u> <u>CDL #</u>				
GENERATOR'S STATEMENT: The materials described above on this shipping document are not subject to federal regulations for proper disposal of hazardous waste. The determination of non-hazardous waste and the information on this form are based on the analysis provided by:				
Printed/Typed Name	Signature:	Date:		
<u>Larry Lanier</u>	<u>Larry Lanier</u>	<u>12-5-06</u> <del>12-4-06</del>		
Transporter's Name	Signature:	Date:		
<u>Jason Sordersen</u>	<u>Jason Sordersen</u>	<u>12-5-06</u>		
Accepting Facility	Signature:	Date:		
<u>ES&amp;J</u>	<u>Reed White</u>	<u>12-5-06</u>		

Return Original form to Generator