

**UNDERGROUND STORAGE TANK
CLOSURE REPORT**

UST LCH 4034-1, LCH 4034-2, LCH 4034-3

**Marine Corps Base
Camp Lejeune, North Carolina**

June 23, 2002

GW/UST-12
UNDERGROUND STORAGE TANK CLOSURE REPORT

UST No. LCH4034-1, LCH4034-2, LCH4034-3

Location: MCB, Camp Lejeune NC

The closure report should contain, at a minimum, the following information. Any other information that is pertinent to the site should be included.

I. General Information

A. Ownership of UST(s)

1. Name of UST owner:

Commanding General
Marine Corps Base, Camp Lejeune, North Carolina

2. Owner address and telephone number:

Commanding General
Director, Environmental Management Division
PSC 20004
MCB, Camp Lejeune, NC 28542
910-451-5068

B. Facility Information

1. Facility name:

Building LCH-4034

2. Facility ID #:

J-002740

3. Facility address, telephone number, and county:

Commanding General
Director, Environmental Management Division
PSC 20004
MCB, Camp Lejeune, NC 28542
910-451-5068
Onslow County

C. Contacts

1. Name, address, telephone number and job title of primary contact person:

Bruce Markwick – Engineering Technician
EMD, I & E Department
PSC 20004
MCB, Camp Lejeune, NC 28542
910-451-5068

2. Name, address, and telephone number of closure contractor:

J.A. Jones Environmental Services Company
6135 Park South Drive, Suite 250
Charlotte, North Carolina 28210
704-553-3595

3. Name, address, and telephone number of primary consultant:

J.A. Jones Environmental Services Company
6135 Park South Drive, Suite 250
Charlotte, North Carolina 28210
704-553-3595

4. Name, address, telephone number, and State certification number of laboratory:

Prism Laboratories, Inc.
449 Springbrook Road
Charlotte, NC 28217
704-529-6364
North Carolina certification #: 402

D. UST Information

Tank No.	Installation Date	Size in Gallon	Tank Dimension	Last Content
LCH 4034-1	April 1992	10,000	31'6" x 7'6"	Gasoline
LCH 4034-2	April 1992	10,000	31'6" x 7'6"	Gasoline
LCH 4034-3	April 1992	2,500	13'6" x 6'	Gasoline

E. Site Characteristics

1. Describe any past release at this site:

A release had been reported on April 7, 1998, which occurred at UST LCH 4034-2 due to damages on fill port by a contractor. The amount of gasoline release is unknown.

2. Is the facility active or inactive at this time? If the facility is inactive note the last time the USTs were in operation:

The facility is active. Three ASTs were constructed to replace the subject USTs. The last time the USTs were in operation was 04/30/2002.

3. Describe surrounding property use (for example, residential, commercial, farming, etc.):

The site is in a housing area of a military base. The USTs supplied fuel to gasoline dispensers of a seven-day store. On the south of the store is North Carolina Highway 24 and on the north, east and northwest are house areas.

4. Describe site geology/hydrogeology:

The site lies within the Tidewater region of Coastal Plain Physiographic Province of North Carolina, where large streams and many of their tributaries are affected by ocean tides. The predominant soil type at the site is sandy silt to clayey silt of Quaternary surficial deposits. The depth to the underlain

Tertiary Castle Hayne limestone/sand is unknown. The depth-to-water was 5.69 feet below land surface (bls) as measured on May 2, 2002, at a groundwater monitoring well MW-3, which is located approximately 10 feet from the south edge of the UST excavation (See Site Drawing). The nearest surface water body is Northeast Creek, a tributary of New River, which is approximately 5,400 feet from the site. Groundwater flow direction in the surficial aquifer is assumed towards the creek. There is a water supply well located approximately 1,500 feet east of Building LCH 4034. All buildings in this area are supplied by a public water supply system.

II. Closure Procedures

A. Describe preparations for closure including the steps taken to notify authorities, permits obtained, and the steps taken to clean and purge the tanks:

A GW/UST-3 form was submitted to the Environmental Management Division of the Base on 4/25/2002. A copy of the GW/UST-3 form is included in Appendix B. The fuel was transferred into the newly installed ASTs. The tanks were cleaned by removal contractor using a high-pressure washer. The contaminated water so generated was transported and disposed of by Southeast Response & Remediation of Wilmington, North Carolina.

B. Note the amount of residual material pumped from the tank(s):

There was no residual material in the tank.

C. Describe the storage, sampling, and disposal of the residual material:

N/A

D. Excavation

1. Describe excavation procedures noting the condition of the soils and the dimensions of the excavation in relation to the tanks, piping and/or pumps:

The three fiberglass tanks were set in an ABC gravel basin. After the USTs were removed from the excavation, soil discoloration and petroleum odor were observed on the excavation walls. The final dimensions of the excavation were 39' (L) x 34' (W) x 11' (D).

Following the USTs removal, the product lines that were associated with the UST system were removed next day, May 1, 2002. Only a small portion of the product lines, approximately 14 feet, remains underground as indicated in Site Drawing. This portion of the product lines is sealed at both ends with cement.

During the product line trench excavation, free product was observed on groundwater surface in the east-west section of the trench (Photo 6), which is parallel to the south edge of Building LCH-4034. The depth-to-water in the trench is approximately 2.5 feet, which indicates the water table of a local perched aquifer.

2. **Note the depth of tank burial(s) (from land surface to top of tank):**
3.5 feet
3. **Quantity of soil removed:**
Approximately 180 cubic yards of ABC gravel were excavated to expose the tank.
4. **Describe soil type(s):**
Based on field observation on the excavation walls, the native soil appears dark brown to dark gray sandy silt to clayey silt with thin clay layers.
5. **Type and source of backfill used:**
Common fill (sand) obtained from a borrow pit in the base was used as backfill.

E. Contaminated Soil

ABC gravel/soil within the excavation extent was excavated down to groundwater table. Approximately 73 tons of contaminated soil/gravel were transported off site and disposed of at a licensed remediation facility operated by ES&J Enterprises, Inc., Autryville, North Carolina. A copy of the Non-Hazardous Waste Manifests is included in Appendix D.

III. Site Investigation

- A. **Provide information on field screening and physical observations, including methods used to calibrate field screening instrument(s):**
Soil discoloration and petroleum odor were observed on ABC gravel in the excavation. Free product was observed only in the product line excavation trench, not in the UST excavation.
- B. **Describe soil sampling points and sampling procedures used:**
A total of 9 soil/gravel samples were collected during the tank and product lines removal activities.

Four samples (ID# LCH-4034-1 through LCH-4034-4) were collected from walls of the UST excavation, at approximate depth of 5 ft below land surface (bls), several inches above groundwater table in the excavation. Two samples (ID#LCH4034-P-4 and LCH4034-P-5) were collected on the bottom of the product line trench excavation, at a depth of 2.5 ft bls. These 6 samples were tested using EPA Methods 8260, 8270 for volatile and semi-volatile compounds, respectively. They were also tested for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) by using MADEP VPH and EPH methods, respectively.

Samples LCH4034-P-2 and LCH4034-P-3 were each collected beneath a product dispenser and LCH4034-P-1 was taken between the dispensers. These samples were tested using EPA Method 5030 for TPH-GRO.

The location and the depth of the soil/gravel samples are illustrated in Site Drawing.

C. Describe groundwater or surface water sampling procedures used:

Groundwater was encountered in the UST excavation. The water stands at approximately 5 feet bls. No groundwater samples were collected from the excavation, which is within the extent of an active environmental remediation system. Several groundwater monitoring wells are in the vicinity of the excavation and have undergone a routine monitoring program (EPA Methods 602 and 610). A copy of analytical results for groundwater samples collected at monitoring well MW-3, which is approximately 10 feet from the excavation's south edge, during February 2002 and May 2002 sampling events is included in Appendix F for references.

D. Quality control measures;

Lab-provided containers and dedicated disposable gloves were used for sampling. Upon collection, the samples were stored in a cooler, chilled by ice, and sent to the laboratory through an over-night carrier.

E. Investigation results

When removed, the tanks were in good conditions (Photo 3, 4, 5). However, soil discoloration and petroleum odor observed in the excavation.

The analytical results of soil are summarized in the tables below. Table 1 lists the analytical results of samples LCH4034-P-1 through LCH4034-P-3, which were taken beneath the fuel dispensers. TPH-GRO concentration in all 3 samples is below the detection limit. Table 2 lists the analytical results of samples LCH4034-1 through LCH4034-4, LCH4034-P-4 and LCH4034-P-5, which underwent constituent-specific tests. As indicated in the table, several target compounds are detected at concentration above the corresponding method detection limit in samples LCH4034-1, LCH4034-2, LCH4034-4, LCH4034-P-4, and LCH4034-P-5. Among the compounds detected, C9-C22 aromatics, Naphthalene, N-propylbenzene, 1,2,4-trimethylbenzene and benzene are in a concentration above Residential Soil Cleanup Level established by NCDENR in sample LCH4034-P-4, which was collected on the bottom wall of the east-west section of the product line excavation trench where free product was observed.

Table 3 lists the analytical results of groundwater samples collected at monitoring well MW-3 during February 2002 and May 2002 routine sampling events. As indicated, benzene, ethylbenzene, MTBE, xylenes, naphthalene, and 1-methylnaphthalene are detected in the groundwater samples in concentration above NCDENR regulatory limit but below Gross Contamination Level.

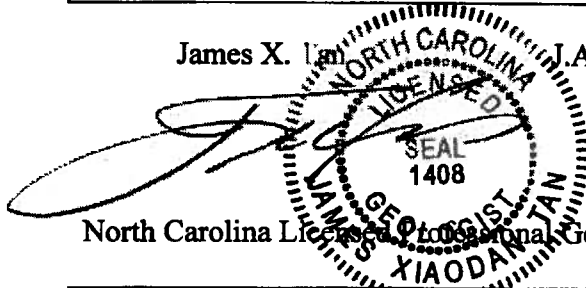
A copy of lab analytical reports of soil and groundwater is included in Appendix F.

IV. Conclusions and Recommendations

Field observation and analytical results of soil and groundwater samples indicate petroleum product contamination on soil and groundwater. Also, free phase of product exists in area south of, and possibly underneath, Building LCH-4034. It is recommended to investigate the free phase product plume and expand the existing soil/groundwater remediation system accordingly to recover free phase product.

V. Signature and Seal of Professional Engineer or Licensed Geologist

James X. [Signature] J.A. Jones Environmental Services Company



North Carolina Licensed Professional Geologist No. 1408

VI. Enclosures

A. Figures

1. Site Location Map
2. Site Drawing

B. Tables

- | | |
|----------|--|
| Table 1. | Summary of Soil Sample Analytical Results (4/24/02 Sampling Event) |
| Table 2. | Summary of Soil Sample Analytical Results (5/1/02 Sampling Event) |
| Table 3. | Summary of Groundwater Analytical Results |

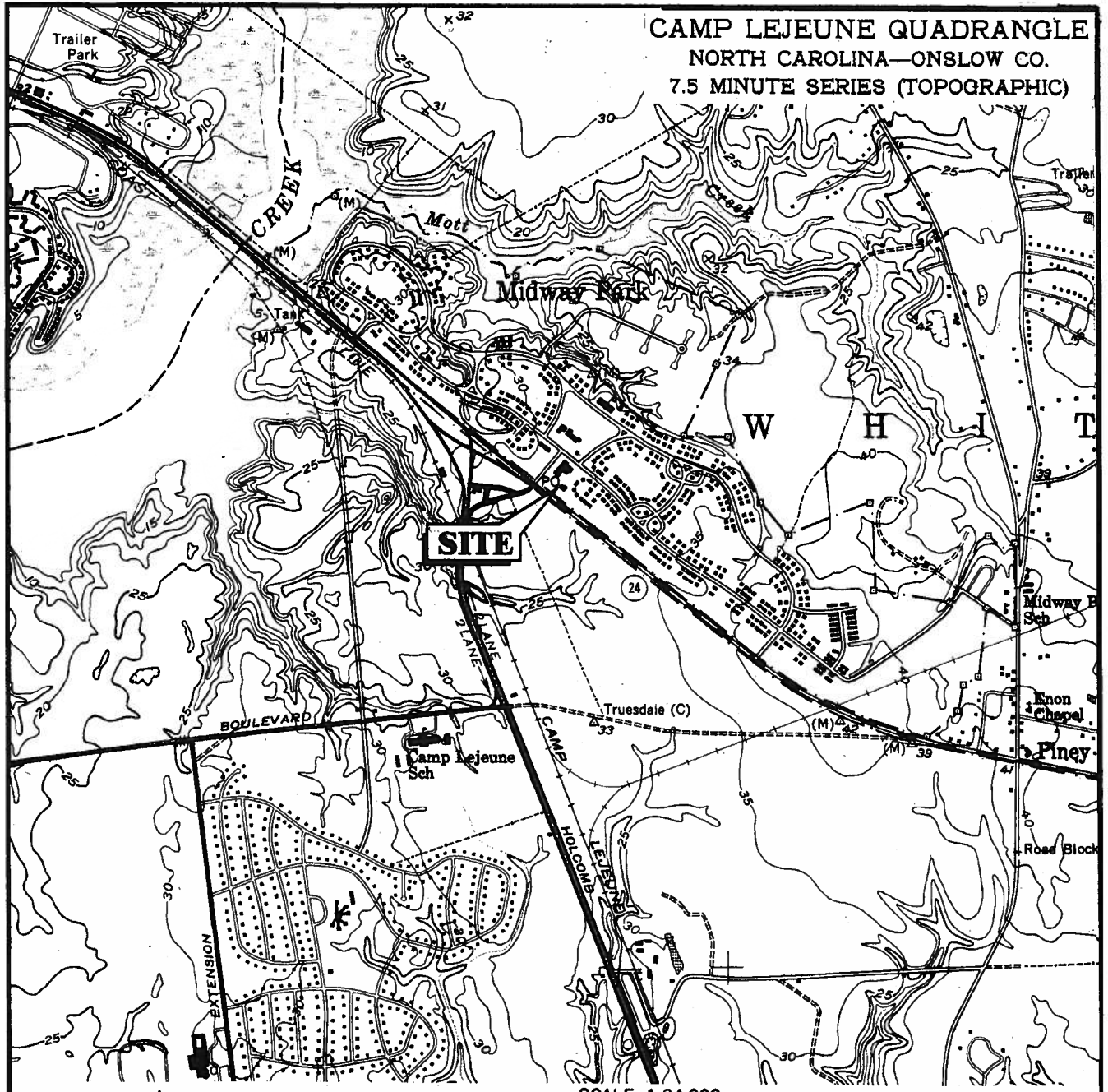
C. Appendices

- | | |
|-------------|---|
| Appendix A: | GW/UST-2 Form |
| Appendix B: | Copy of GW/UST-3 Form |
| Appendix C: | Certificate of UST Disposal |
| Appendix D: | Contaminated Soil Transportation & Disposal Manifests |
| Appendix E: | Contaminated Water Transportation & Disposal Manifests |
| Appendix F: | Laboratory Analytical Reports of Soil and Groundwater Samples |
| Appendix G: | Photographs of UST Closure Activities |

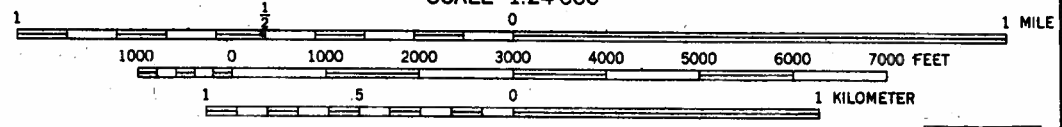
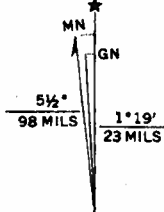
FIGURES

- 1. Site Location Map**
- 2. Site Drawing**

CAMP LEJEUNE QUADRANGLE
NORTH CAROLINA—ONslow CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:24 000



UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 5 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER



MARINE CORPS BASE
Camp Lejeune, North Carolina
Remove Underground Storage Tank LCH4034-1-3
 Contract No. N62470-93-D-3033, Task Order 053

Figure 1
Site
Location

TABLES

Table 1

**Summary of Soil Sample Analytical Results
(4/24/02 Sampling Event)**

Sample ID	Date	Depth (ft bls)	TPH-GRO (ppm)
LCH4034-P-1	4/24/02	2.25	BDL
LCH4034-P-2	4/24/02	2.5	BDL
LCH4034-P-3	4/24/02	2.75	BDL

BDL --- Below Detection Limit

Table 2
Summary of Soil Analytical Results
(5/1/02 Sampling Event)

Sample ID	Date	Depth (ft)	COMPOUND CONCENTRATION (in ppm)																	
			C9-C22 Aromatics	C5-C8 Aliphatics	C9-18 Aliphatics	C19-C36 Aliphatics	N-Butylbenzene	Sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	P-Isopropyltoluene	Naphthalene	N-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Methylnaphthalene	Toluene	MTBE	Benzene	Total Xylenes
LCH4034-1	5/1/02	5														0.011	0.067		0.023	
LCH4034-2	5/1/02	5	322		360	170	0.42													
LCH4034-3	5/1/02	5																		
LCH4034-P-4	5/1/02	2.5	782	780	1360		61	14	350	30	8.3	180	170	860	300	15	710	15	49	1600
LCH4034-P-5	5/1/02	2.5	2			29								0.011	0.0085			0.029		0.0096
LCH4034-4	5/2/02	5	153	11	214	69	0.82							0.58		0.39				
Residential Soil Cleanup Levels	---		469	939	9386	93860	156	156	1560	1564	n/c	63	156	782	782	63	3200	156	22	32000
Industrial/Commercial Soil Cleanup Levels	---		12264	24528	245280	#	4088	4088	40000	40880	n/c	1635	4088	20440	20440	1635	82000	4088	200	200000
Soil-to-Water Maximum Contaminant Concentration	---		34	72	3255	##	4	3	0.24	2	n/e	0.58	2	8	7	3	7	0.92	0.0056	5

Notes:

1. Only those compounds whose concentration is above Method Detection Limit are listed
2. A no-entry-cell indicates compound concentration below Method Detection Limit
3. # Health base level >100%
4. ## Considered immobile
5. n/e --- Not established

Table 3

Summary of Groundwater Analytical Results

Parameter	NCDENR Groundwater Regulatory Limit	Gross Contamination Level	Location	MW-3	MW-3
			Sample ID	LCH4015-MW3-02A	LCH4015-MW3-02B
EPA Method 602 (ug/L)			Sample Date	2/21/2002	05/22/2002
Benzene	1	5,000		210	160
Ethylbenzene	29	29,000		84	56
MTBE	200	200,000		37	BDL
Total Xylenes	530	87,500		33	16
EPA Method 610 (ug/L)					
1-Methylnaphthalene	Detection Limit	1,000 ¹		27	26
Naphthalene	21	15,500		57	40

Note:

1. Indicates a value of 1,000 times the laboratory quantitation limit for 1-Methylnaphthalene established at 1.0 ug/L
2. BDL --- Below Detection Limit

APPENDIX A

GW/UST-2 Form

FOR TANKS IN NC	Return Completed Form To: The appropriate DWQ Regional Office according to the county of the facility's Location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].	State Use Only I.D. Number _____ Date Received _____
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INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)	II. Location of Tank(s)
Owner Name: <u>Commanding General, MCB</u> <small>(Corporation, Individual, Public Agency, or Other Entity)</small> Street Address: <u>AC/S, EMD, MCB, PSC20004</u> County: <u>Onslow</u> City: <u>Camp Lejeune</u> State: <u>NC</u> Zip Code: <u>28542</u> Tele. No. (Area Code): <u>(910) 451-5068</u>	Facility Name or Company: <u>Bldg. LCH-4034 MCB</u> Facility ID #: <u>J-002740</u> Street Address or State Road: <u>Bldg. LCH-4034, Butler Dr.</u> County: <u>Onslow</u> City: <u>Camp Lejeune</u> Zip Code: <u>28542</u> Tele. No. (Area Code): <u>(910) 451-5068</u>

III. Contact Person			
Name: <u>Mr. Bruce Markwick</u>	Job Title: <u>Engineering Technician</u>	Tel. No.: <u>(910) 451-9660</u>	
Closure Contractor: <u>J.A. Jones Environmental Serv. Address: 6135 Park South Dr. Charlotte, NC</u> Tel. No.: <u>(704) 553-3595</u>			
Primary Consultant: <u>Same</u>	Address: <u>Same</u>	Tel. No.: <u>Same</u>	
Lab: <u>Prism Laboratories</u>	Address: <u>449 Springbrook Rd. Charlotte, NC</u> Tel. No.: <u>(704) 529-6364</u>		

IV. U.S.T. Information				V. Excavation Condition				VI. Additional Information Required	
Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
<u>LCH-4034-1</u>	<u>10,000</u>	<u>31'6" x 7'6"</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>LCH-4034-2</u>	<u>10,000</u>	<u>31'6" x 7'6"</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>LCH-4034-3</u>	<u>2,500</u>	<u>13'6" x 6'</u>	<u>Gasoline</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DWQ in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. Check List (Check the activities completed)	
<p>PERMANENT CLOSURE (For Removing or Abandoning-in-place)</p> <p><input checked="" type="checkbox"/> Contact local fire marshal</p> <p><input checked="" type="checkbox"/> Notify DWQ Regional Office before abandonment.</p> <p><input checked="" type="checkbox"/> Drain & Flush piping into tank.</p> <p><input checked="" type="checkbox"/> Remove all product and residuals from tank.</p> <p><input checked="" type="checkbox"/> Excavate down to tank.</p> <p><input checked="" type="checkbox"/> Clean and inspect tank.</p> <p><input checked="" type="checkbox"/> Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.</p> <p><input checked="" type="checkbox"/> Cap or plug all lines except the vent and fill lines.</p> <p><input checked="" type="checkbox"/> Purge tank of all product & flammable vapors.</p> <p><input type="checkbox"/> Cut one or more large holes in the tanks.</p> <p><input checked="" type="checkbox"/> Backfill the area.</p> <p>Date Tank(s) Permanently Closed: <u>4/30/2002</u></p> <p>Date of Change-in-Service: _____</p>	<p>ABANDONMENT IN PLACE</p> <p><input type="checkbox"/> Fill tank until material overflows tank opening.</p> <p><input type="checkbox"/> Plug or cap all openings.</p> <p><input type="checkbox"/> Disconnect and cap or remove vent line.</p> <p><input type="checkbox"/> Solid inert material used - specify: _____</p> <p>REMOVAL</p> <p><input checked="" type="checkbox"/> Create vent hole.</p> <p><input checked="" type="checkbox"/> Label tank.</p> <p><input checked="" type="checkbox"/> Dispose of tank in approved manner.</p> <p>Final tank destination: <u>Marine Corps Base Land Fill Camp Lejeune NC</u></p>

VIII. Certification (Read and Sign)		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.		
Print name and official title of owner or owner's authorized representative <u>James Tan</u> <u>Project Geologist</u>	Signature: 	Date Signed <u>5/2/2002</u>

APPENDIX B

Copy of GW/UST-3 Form

APPENDIX C

Certificate of UST Disposal



J.A. JONES
ENVIRONMENTAL
SERVICES

6135 Park South Drive, Suite 250, Charlotte, NC 28210
(704) 553-3595 / (704) 553-3599

TANK DISPOSAL MANIFEST

1. **Tank Owner:**

Commanding General, Marine Corps Base, Camp Lejeune, North Carolina
AC/S, Environmental Management Division, MCB, Camp Lejeune, NC 28542

2. **Tank Owner / Authorized Representative:**

Contact: Mr. Gene Jones
Phone # (910) 451-1482

3. **Description of Tanks:**

<u>Tank ID No.</u>	<u>Capacity</u>	<u>Previous Content</u>	<u>Comments</u>
LCH4034-1	10,000 Gallon	Gasoline	Fiber Glass Tank
LCH4034-2	10,000 Gallon	Gasoline	Fiber Glass Tank
LCH4034-3	2,500 Gallon	Gasoline	Fiber Glass Tank.

4. **Transporter:**

The undersigned certifies that the above listed storage tank(s) have been demolished into debris and transported to the landfill, Marine Corps Base, Camp Lejeune, North Carolina.

Earle Phipps
Printed / Typed Name

Earle Phipps
Signature

05-01-02
Month/Day/Year

5. **Disposal Certification:**

The undersigned certifies that the above named storage tank(s) have been demolished into debris and accepted by the landfill facility.

Receiving Facility: Landfill, MCB, Camp Lejeune, NC

(910) 451-2946

EUGENE H JONES
Printed / Typed Name

E. H. Jones
Signature

5-1-02
Month/Day/Year

APPENCIX D

Contaminated Soil Transportation & Disposal Manifests

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

Document #: 1848

Site: LCH 4034, MCB - Camp Lejeune, NC 28542 Page 1 of 1

Generator's Name & Mailing Address: Commanding General
AC/S EMD/IRD
MCB
PSC Box 20004
Camp Lejeune, NC 28542-0004
(910)451-5068 US EPA ID Number: NC6170022580

Generator's Telephone #: _____

Transporter's Name, Mailing Address & Telephone Number: ES&J ENTERPRISES, INC.
1555 HOLLAND RD.
AKRYVILLE, NC 28318 910-567-6138 US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: _____ US EPA ID Number: _____

same as transporter

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soil</u>	<u>1</u>	<u>Truck</u>	<u>18.35</u>	<u>TONS</u>

Container/Tag Number: _____ Profile #: _____
Lab: _____

Additional Information and Discrepancy Indication: CDL # 5190419 Truck # 1

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>Howard David Cox</u>	<u>[Signature]</u>	<u>5-3-02</u>
Transporter's Name	Signature:	Date:
<u>Wind Seasons</u>	<u>[Signature]</u>	<u>5-3-02</u>
Accepting Facility	Signature:	Date:

Contractor's Copy

Marine Corps Base, Camp Lejeune

Non-Hazardous Waste Shipping Document

Document #: 1849

Site: LCH 4034, MCB-CAMP LEJEUNE, NC 28542 Page 1 of 1

Generator's Name & Mailing Address: Commanding General
AC/S EMD/IRD
MCB
PSC Box 20004
Camp Lejeune, NC 28542-0004
(910)451-5068 US EPA ID Number: NC6170022580

Generator's Telephone #: _____

Transporter's Name, Mailing Address & Telephone Number: ES & J ENTERPRISES, INC.
1555 HOLLAND RD.
AURRYVILLE, NC 28318 910-567-6138 US EPA ID Number: _____

Destination's Name, Mailing Address & Telephone Number: SAME AS TRANSPORTER US EPA ID Number: _____

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soil</u>	<u>1</u>	<u>TRUCK</u>	<u>18.25</u>	<u>TONS</u>

Container/Tag Number: _____ Profile #: _____
Lab: _____

Additional Information and Discrepancy Indication: CDL# 3684028 TRUCK # 159

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>Howard Davis</u>	<u>[Signature]</u>	<u>5-3-02</u>
Transporter's Name	Signature:	Date:
<u>DOCK AURRY</u>	<u>[Signature]</u>	<u>5-3-02</u>
Accepting Facility	Signature:	Date:

Contractor's Copy

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

Document #: 1850

Site: LCH 4034, MCB - CAMP LEJEUNE, NC 28542 Page 1 of 1

Generator's Name & Mailing Address: Commanding General
AC/S EMD/IRD
MCB
PSC Box 20004
Camp Lejeune, NC 28542-0004
(910)451-5068 US EPA ID Number: NC6170022580

Generator's Telephone #: _____

Transporter's Name, Mailing Address & Telephone Number: ES & J ENTERPRISES, INC.
1555 HOLLAND RD.
AUTRYVILLE, NC 28318 US EPA ID Number: _____
910-567-6138

Destination's Name, Mailing Address & Telephone Number: _____ US EPA ID Number: _____
———— SAME AS TRANSPORTER ————

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
<u>Petroleum Contaminated Soil</u>	<u>1</u>	<u>TRUCK</u>	<u>19</u>	<u>TONS</u>

Container/Tag Number: _____ Profile #: _____
Lab: _____

Additional Information and Discrepancy Indication: CDL # 6151624 TRUCK # DTR2

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>Dennis Ransom</u>	<u>[Signature]</u>	<u>5-7-02</u>
Transporter's Name: _____	Signature: _____	Date: _____
<u>Dennis Ransom</u>	<u>[Signature]</u>	<u>3-5-02</u>
Accepting Facility: _____	Signature: _____	Date: _____

Contractor's Copy

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

Document #: **1851**

Site: **LCH 4034, MCB - CAMP LEJEUNE, NC 28542** Page 1 of 1

Generator's Name & Mailing Address: **Commanding General
AC/S EMD/IRD
MCB
PSC Box 20004
Camp Lejeune, NC 28542-0004
(910)451-5068** US EPA ID Number: **NC6170022580**

Generator's Telephone #: **(910)451-5068**

Transporter's Name, Mailing Address & Telephone Number: US EPA ID Number: _____
**ESJ ENTERPRISES, INC.
1555 HOLLAND RD.
AURRYVILLE, NC 28318 910-567-6138**

Destination's Name, Mailing Address & Telephone Number: US EPA ID Number: _____
— SAME AS TRANSPORTER —

Waste Shipping Name and Description	Containers		Total Quantity	Units
	Number	Type		
petroleum contaminated soil	1	TRUCK	17.3	TONS

Container/Tag Number: _____ Profile #: _____
 Lab: _____

Additional Information and Discrepancy Indication: **COL # 3820321 TRUCK # 163**

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:
Howard David Fox	<i>Howard David Fox</i>	5-3-02
Transporter's Name Mack Culbreth	<i>Mack Culbreth</i>	5/3/02
Accepting Facility	Signature:	Date:

Contractor's Copy

APPENCIX E

Contaminated Water Transportation & Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

NC6170022580

Manifest Doc. No.

02809

2. Page 1

of 1

3. Generator's Name and Mailing Address **COMMANDING GENERAL**

ACIS I & E MCB
PSC Box 20004
CAMP LEJEUNE MC 28542-0004

4. Generator's Phone (910) 451-301482

5. Transporter 1 Company Name

Southeast Response Remediation

6. US EPA ID Number

WC0000926618

A. Transporter's Phone

(910) 563-6254

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Southeast Response Remediation
4920 Hwy 421 North
Wilmington, NC 28401

10. US EPA ID Number

WC0000926618

C. Facility's Phone

(800) 310-6757

11. Waste Shipping Name and Description

a. Now Regulated Waste Water / Petroleum

12. Containers

No. Type

001 TR

13. Total Quantity

Unit Wt/Vol

3008 gal

D. Additional Descriptions for Materials Listed Above

Product approx: 24 gallons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

EVLENA H JONES

Signature

[Signature]

Month Day Year

10 5 01 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

TONY Kimbrough

Signature

[Signature]

Month Day Year

10 5 10 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Richard Miles

Signature

[Signature]

Month Day Year

10 5 10 02

ORIGINAL - RETURN TO GENERATOR

APPENCIX F

Laboratory Analytical Reports of Soil and Groundwater Samples

Lab Report

D

MAY - 6 2



5/3/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-1
Prism Sample ID: AC41803
Login Group: AO52H3A
Sample Collection Date/Time: 4/24/02 08:28
Lab Submittal Date/Time: 4/25/02 09:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	4/26/02 17:46	KC
CALCULATIONS BASED ON DRY WT.	96	% DRY WT.	0.01	SM 2540 G	5/1/02 22:30	GRR

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-2
Prism Sample ID: AC41804
Login Group: AO52H3A
Sample Collection Date/Time: 4/24/02 08:33
Lab Submittal Date/Time: 4/25/02 09:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	4/26/02 18:24	KC
CALCULATIONS BASED ON DRY WT.	94	% DRY WT.	0.01	SM 2540 G	5/1/02 22:30	GRR

Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-3
Prism Sample ID: AC41805
Login Group: AO52H3A
Sample Collection Date/Time: 4/24/02 08:50
Lab Submittal Date/Time: 4/25/02 09:30

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
TPH-GASOLINE RANGE / PREP. 5030	Less than	mg/kg	1.0	8015MOD/5030	4/26/02 19:02	KC
CALCULATIONS BASED ON DRY WT.	92	% DRY WT.	0.01	SM 2540 G	5/1/02 22:30	GRR

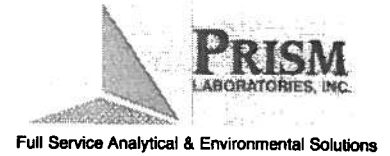
Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-1
Prism Sample ID: AC42586
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 10:55
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
BROMOFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-1
Prism Sample ID: AC42586
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 10:55
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 20:42	KC
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
STYRENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TOLUENE	11	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2,3-TRICHLOROENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2,4-TRICHLOROENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
TOTAL XYLENES	23	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 20:42	KC
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5035	5/7/02 20:42	KC
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 20:42	KC
ACETONE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 20:42	KC
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 20:42	KC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



5/16/02

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-1
 Prism Sample ID: AC42586
 Login Group: AO59H5
 Sample Collection Date/Time: 5/1/02 10:55
 Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 20:42	KC
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 20:42	KC
IPE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
MTBE	67	ug/kg	6.0	8260B/5035	5/7/02 20:42	KC
SURR:DIBROMOFLUOROMETHANE	51 *	%	80-120	8260B/5035	5/7/02 20:42	KC
SURR:TOLUENE-D8	102	%	81-117	8260B/5035	5/7/02 20:42	KC
SURR:BROMOFLUOROBENZENE	114	%	74-121	8260B/5035	5/7/02 20:42	KC
C5-C8 Aliphatics	Not detected	mg/kg	7	MADEP VPH	5/7/02 06:47	JYS
C9-C12 Aliphatics	Not detected	mg/kg	6	MADEP VPH	5/7/02 06:47	JYS
C9-C10 Aromatics	Not detected	mg/kg	2	MADEP VPH	5/7/02 06:47	JYS
Surrogate % Recovery - PID	75	%	(70-130)	MADEP VPH	5/7/02 06:47	JYS
Surrogate % Recovery - FID	99	%	(70-130)	MADEP VPH	5/7/02 06:47	JYS
Dilution Factor	1	mg/kg		MADEP VPH	5/7/02 06:47	JYS
Dry Weight Received	16.85 g	mg/kg		MADEP VPH	5/7/02 06:47	JYS
EXTRACTION FOR EPH	Completed			MADEP-EPH	5/7/02 10:30	JMV
C9-C18 ALIPHATICS	Not detected	mg/kg	40	MADEP-EPH	5/15/02 06:01	KTE
C19-C36 ALIPHATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 06:01	KTE
C11-C22 AROMATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 06:01	KTE
SURROGATE RECOVERY - ALIPHATIC	75	%	(40-140)	MADEP-EPH	5/15/02 06:01	KTE
SURROGATE RECOVERY - AROMATIC	55	%	(40-140)	MADEP-EPH	5/15/02 06:01	KTE
SURR:2-BROMONAPHTHALENE	62	%	(40-140)	MADEP-EPH	5/15/02 06:01	KTE
SURR:2-FLUOROBIPHENYL	66	%	(40-140)	MADEP-EPH	5/15/02 06:01	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/15/02 06:01	KTE
DRY WEIGHT	8.4 g	mg/kg		MADEP-EPH	5/15/02 06:01	KTE
CALCULATIONS BASED ON DRY WT.	84	% DRY WT.	0.01	SM 2540 G	5/8/02 19:30	GRR
PREP. METHOD 3550	Completed			SW846-3550B	5/8/02 10:00	JMV

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-1
Prism Sample ID: AC42586
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 10:55
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ACENAPHTHENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
ACENAPHTHYLENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
ANTHRACENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BENZO(A)PYRENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BENZO(GH)PERYLENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2-CHLOROPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
CHRYSENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DIBENZOFURAN	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DI-N-BUTYL PHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	1950	SW846-8270C	5/11/02 01:19	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-1
Prism Sample ID: AC42586
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 10:55
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2,6-DINITROTOLUENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
FLUORANTHENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
FLUORENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
HEXACHLOROETHANE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
ISOPHORONE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	1950	SW846-8270C	5/11/02 01:19	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2-METHYL-PHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
4-METHYL-PHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
NAPHTHALENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
NITROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2-NITROPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
4-NITROPHENOL	Not detected	ug/kg	1950	SW846-8270C	5/11/02 01:19	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	1950	SW846-8270C	5/11/02 01:19	HWC
PHENANTHRENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
PHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
PYRENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	390	SW846-8270C	5/11/02 01:19	HWC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-1
Prism Sample ID: AC42586
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 10:55
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Note for 8260: Surrogate recovery is outside QC control limits. Sample was re-analyzed with no improvement in surrogate recovery.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
BROMOBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
BROMOFORM	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
BROMOMETHANE	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
N-BUTYLBENZENE	420	ug/kg	270	8260B/5035	5/3/02 19:36	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CHLOROETHANE	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
CHLOROFORM	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CHLOROMETHANE	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
2-CHLOROTOLUENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
4-CHLOROTOLUENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
DIBROMOMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,3-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,4-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 FL Certification No. E87519

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Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
2,2-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
ETHYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
ISOPROPYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
METHYLENE CHLORIDE	Not detected	ug/kg	5400	8260B/5035	5/3/02 19:36	MP
NAPHTHALENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
N-PROPYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
STYRENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TETRACHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TOLUENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TRICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
VINYL CHLORIDE	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
TOTAL XYLENES	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
2-BUTANONE (MEK)	Not detected	ug/kg	2700	8260B/5035	5/3/02 19:36	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	540	8260B/5035	5/3/02 19:36	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	2700	8260B/5035	5/3/02 19:36	MP
ACETONE	Not detected	ug/kg	5400	8260B/5035	5/3/02 19:36	MP
CARBON DISULFIDE	Not detected	ug/kg	5400	8260B/5035	5/3/02 19:36	MP
VINYL ACETATE	Not detected	ug/kg	2700	8260B/5035	5/3/02 19:36	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
2-HEXANONE	Not detected	ug/kg	2700	8260B/5035	5/3/02 19:36	MP
IPE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
MTBE	Not detected	ug/kg	270	8260B/5035	5/3/02 19:36	MP
SURR:DIBROMOFLUOROMETHANE	107	%	80-120	8260B/5035	5/3/02 19:36	MP
SURR:TOLUENE-D8	111	%	81-117	8260B/5035	5/3/02 19:36	MP
SURR:BROMOFLUOROBENZENE	114	%	74-121	8260B/5035	5/3/02 19:36	MP
C5-C8 Aliphatics	Not detected	mg/kg	35	MADEP VPH	5/7/02 07:47	JYS
C9-C12 Aliphatics	Not detected	mg/kg	30	MADEP VPH	5/7/02 07:47	JYS
C9-C10 Aromatics	12	mg/kg	10	MADEP VPH	5/7/02 07:47	JYS
Surrogate % Recovery - PID	108	%	(70-130)	MADEP VPH	5/7/02 07:47	JYS
Surrogate % Recovery - FID	101	%	(70-130)	MADEP VPH	5/7/02 07:47	JYS
Dilution Factor	5	mg/kg		MADEP VPH	5/7/02 07:47	JYS
Dry Weight Received	23.14 g	mg/kg		MADEP VPH	5/7/02 07:47	JYS
EXTRACTION FOR EPH	Completed			MADEP-EPH	5/7/02 10:30	JMV
C9-C18 ALIPHATICS	360	mg/kg	40	MADEP-EPH	5/15/02 11:08	KTE
C19-C36 ALIPHATICS	170	mg/kg	20	MADEP-EPH	5/15/02 11:08	KTE
C11-C22 AROMATICS	310	mg/kg	20	MADEP-EPH	5/15/02 11:08	KTE
SURROGATE RECOVERY - ALIPHATIC	82	%	(40-140)	MADEP-EPH	5/15/02 11:08	KTE
SURROGATE RECOVERY - AROMATIC	70	%	(40-140)	MADEP-EPH	5/15/02 11:08	KTE
SURR:2-BROMONAPHTHALENE	64	%	(40-140)	MADEP-EPH	5/15/02 11:08	KTE
SURR:2-FLUOROBIPHENYL	70	%	(40-140)	MADEP-EPH	5/15/02 11:08	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/15/02 11:08	KTE
DRY WEIGHT	9.1 g	mg/kg		MADEP-EPH	5/15/02 11:08	KTE

CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	5/8/02 19:30	GRR
PREP. METHOD 3550	Completed			SW846-3550B	5/8/02 10:00	JMV
ACENAPHTHENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
ACENAPHTHYLENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
ANTHRACENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BENZO(A)ANTHRACENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BENZO(B)FLUORANTHENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BENZO(K)FLUORANTHENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BENZO(A)PYRENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BENZO(GHI)PERYLENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2-CHLORONAPHTHALENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2-CHLOROPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
CHRYSENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
DIBENZOFURAN	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
1,2-DICHLOROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
1,3-DICHLOROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
1,4-DICHLOROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,4-DICHLOROPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
DIETHYL PHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,4-DIMETHYLPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
DIMETHYL PHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,4-DINITROPHENOL	Not detected	ug/kg	1700	SW846-8270C	5/11/02 02:07	HWC
2,4-DINITROTOLUENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,6-DINITROTOLUENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

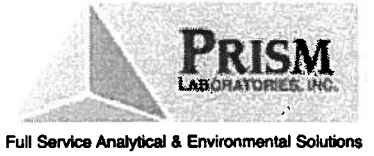
The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
FLUORANTHENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
FLUORENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
HEXACHLOROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
HEXACHLOROBUTADIENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
HEXACHLOROETHANE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
ISOPHORONE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	1700	SW846-8270C	5/11/02 02:07	HWC
2-METHYL NAPHTHALENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2-METHYL-PHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
4-METHYL-PHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
NAPHTHALENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
NITROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2-NITROPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
4-NITROPHENOL	Not detected	ug/kg	1700	SW846-8270C	5/11/02 02:07	HWC
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
PENTACHLOROPHENOL	Not detected	ug/kg	1700	SW846-8270C	5/11/02 02:07	HWC
PHENANTHRENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
PHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
PYRENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	340	SW846-8270C	5/11/02 02:07	HWC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-2
Prism Sample ID: AC42587
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:01
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Note for 8260: Sample diluted due to matrix.

Angela D. Overcash, V.P. Laboratory Services

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

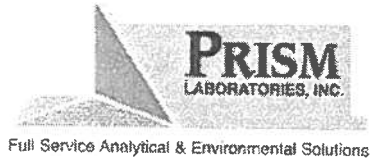
Customer Project ID: 053
Customer Sample ID: LCH4034-3
Prism Sample ID: AC42588
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:17
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
BROMOFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,3-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,4-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-3
Prism Sample ID: AC42588
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:17
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:20	KC
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
STYRENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,2,4-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
TOTAL XYLENES	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:20	KC
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:20	KC
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:20	KC
ACETONE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:20	KC
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:20	KC
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:20	KC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-3
 Prism Sample ID: AC42588
 Login Group: AO59H5
 Sample Collection Date/Time: 5/1/02 11:17
 Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:20	KC
IPE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
MTBE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:20	KC
SURR:DIBROMOFLUOROMETHANE	107	%	80-120	8260B/5035	5/7/02 21:20	KC
SURR:TOLUENE-D8	100	%	81-117	8260B/5035	5/7/02 21:20	KC
SURR:BROMOFLUOROBENZENE	102	%	74-121	8260B/5035	5/7/02 21:20	KC

C5-C8 Aliphatics	Not detected	mg/kg	7	MADEP VPH	5/7/02 08:47	JYS
C9-C12 Aliphatics	Not detected	mg/kg	6	MADEP VPH	5/7/02 08:47	JYS
C9-C10 Aromatics	Not detected	mg/kg	2	MADEP VPH	5/7/02 08:47	JYS
Surrogate % Recovery - PID	74	%	(70-130)	MADEP VPH	5/7/02 08:47	JYS
Surrogate % Recovery - FID	96	%	(70-130)	MADEP VPH	5/7/02 08:47	JYS
Dilution Factor	1	mg/kg		MADEP VPH	5/7/02 08:47	JYS
Dry Weight Received	18.29 g	mg/kg		MADEP VPH	5/7/02 08:47	JYS

EXTRACTION FOR EPH	Completed			MADEP-EPH	5/7/02 10:30	JMV
C9-C18 ALIPHATICS	Not detected	mg/kg	40	MADEP-EPH	5/15/02 07:43	KTE
C19-C36 ALIPHATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 07:43	KTE
C11-C22 AROMATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 07:43	KTE
SURROGATE RECOVERY - ALIPHATIC	131	%	(40-140)	MADEP-EPH	5/15/02 07:43	KTE
SURROGATE RECOVERY - AROMATIC	96	%	(40-140)	MADEP-EPH	5/15/02 07:43	KTE
SURR:2-BROMONAPHTHALENE	109	%	(40-140)	MADEP-EPH	5/15/02 07:43	KTE
SURR:2-FLUOROBIPHENYL	120	%	(40-140)	MADEP-EPH	5/15/02 07:43	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/15/02 07:43	KTE
DRY WEIGHT	8.1 g	mg/kg		MADEP-EPH	5/15/02 07:43	KTE

CALCULATIONS BASED ON DRY WT.	81	% DRY WT.	0.01	SM 2540 G	5/8/02 19:30	GRR
PREP. METHOD 3550	Completed			SW848-3550B	5/8/02 10:00	JMV
ACENAPHTHENE	Not detected	ug/kg	410	SW848-8270C	5/11/02 00:31	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-3
Prism Sample ID: AC42588
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:17
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ACENAPHTHYLENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BENZO(A)ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BENZO(B)FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BENZO(K)FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BENZO(A)PYRENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BENZO(GHI)PERYLENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2-CHLORONAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2-CHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
CHRYSENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
DIBENZOFURAN	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
1,2-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
1,3-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
1,4-DICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,4-DICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
DIETHYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,4-DIMETHYLPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
DIMETHYL PHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,4-DINITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	5/11/02 00:31	WAD
2,4-DINITROTOLUENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,6-DINITROTOLUENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-3
Prism Sample ID: AC42588
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:17
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
FLUORANTHENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
FLUORENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
HEXACHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
HEXACHLOROBUTADIENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
HEXACHLOROETHANE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
ISOPHORONE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	5/11/02 00:31	WAD
2-METHYL NAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2-METHYL-PHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
4-METHYL-PHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
NAPHTHALENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
NITROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2-NITROPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
4-NITROPHENOL	Not detected	ug/kg	2050	SW846-8270C	5/11/02 00:31	WAD
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
PENTACHLOROPHENOL	Not detected	ug/kg	2050	SW846-8270C	5/11/02 00:31	WAD
PHENANTHRENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
PHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
PYRENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	410	SW846-8270C	5/11/02 00:31	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-3
Prism Sample ID: AC42588
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 11:17
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-4
Prism Sample ID: AC42589
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 15:41
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
BENZENE	49000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
BROMOBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
BROMOFORM	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
BROMOMETHANE	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
N-BUTYLBENZENE	61000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
SEC-BUTYLBENZENE	14000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CHLOROETHANE	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
CHLOROFORM	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CHLOROMETHANE	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
2-CHLOROTOLUENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
4-CHLOROTOLUENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
DIBROMOMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2-DICHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,3-DICHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,4-DICHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,3-DICHLOROPROPANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-4
Prism Sample ID: AC42589
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 15:41
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
2,2-DICHLOROPROPANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
ETHYLBENZENE	350000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
ISOPROPYLBENZENE	30000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
P-ISOPROPYLTOLUENE	8300	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
METHYLENE CHLORIDE	Not detected	ug/kg	108000	8260B/5035	5/3/02 17:41	MP
NAPHTHALENE	180000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
N-PROPYLBENZENE	170000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
STYRENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TETRACHLOROETHENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TOLUENE	710000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TRICHLOROETHENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,2,4-TRIMETHYLBENZENE	860000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
1,3,5-TRIMETHYLBENZENE	300000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
VINYL CHLORIDE	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
TOTAL XYLENES	1600000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
2-BUTANONE (MEK)	Not detected	ug/kg	54000	8260B/5035	5/3/02 17:41	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	10800	8260B/5035	5/3/02 17:41	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	54000	8260B/5035	5/3/02 17:41	MP
ACETONE	Not detected	ug/kg	108000	8260B/5035	5/3/02 17:41	MP
CARBON DISULFIDE	Not detected	ug/kg	108000	8260B/5035	5/3/02 17:41	MP
VINYL ACETATE	Not detected	ug/kg	54000	8260B/5035	5/3/02 17:41	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-P-4
 Prism Sample ID: AC42589
 Login Group: AO59H5
 Sample Collection Date/Time: 5/1/02 15:41
 Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
2-HEXANONE	Not detected	ug/kg	54000	8260B/5035	5/3/02 17:41	MP
IPE	Not detected	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
MTBE	15000	ug/kg	5400	8260B/5035	5/3/02 17:41	MP
SURR:DIBROMOFLUOROMETHANE	diluted out	%	80-120	8260B/5035	5/3/02 17:41	MP
SURR:TOLUENE-D8	diluted out	%	81-117	8260B/5035	5/3/02 17:41	MP
SURR:BROMOFLUOROBENZENE	diluted out	%	74-121	8260B/5035	5/3/02 17:41	MP

C5-C8 Aliphatics	780	mg/kg	700	MADEP VPH	5/10/02 07:51	JYS
C9-C12 Aliphatics	1300	mg/kg	600	MADEP VPH	5/10/02 07:51	JYS
C9-C10 Aromatics	710	mg/kg	200	MADEP VPH	5/10/02 07:51	JYS
Surrogate % Recovery - PID	diluted out	%	(70-130)	MADEP VPH	5/10/02 07:51	JYS
Surrogate % Recovery - FID	diluted out	%	(70-130)	MADEP VPH	5/10/02 07:51	JYS
Dilution Factor	100	mg/kg		MADEP VPH	5/10/02 07:51	JYS
Dry Weight Received	22.32 g	mg/kg		MADEP VPH	5/10/02 07:51	JYS
EXTRACTION FOR EPH						
C9-C18 ALIPHATICS	60	mg/kg	40	MADEP-EPH	5/15/02 12:50	KTE
C19-C36 ALIPHATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 12:50	KTE
C11-C22 AROMATICS	72	mg/kg	20	MADEP-EPH	5/15/02 12:50	KTE
SURROGATE RECOVERY - ALIPHATIC	87	%	(40-140)	MADEP-EPH	5/15/02 12:50	KTE
SURROGATE RECOVERY - AROMATIC	61	%	(40-140)	MADEP-EPH	5/15/02 12:50	KTE
SURR:2-BROMONAPHTHALENE	87	%	(40-140)	MADEP-EPH	5/15/02 12:50	KTE
SURR:2-FLUOROBIPHENYL	85	%	(40-140)	MADEP-EPH	5/15/02 12:50	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/15/02 12:50	KTE
DRY WEIGHT	9.2 g	mg/kg		MADEP-EPH	5/15/02 12:50	KTE

CALCULATIONS BASED ON DRY WT.	92	% DRY WT.	0.01	SM 2540 G	5/8/02 19:30	GRR
PREP. METHOD 3550	Completed			SW846-3550B	5/8/02 10:00	JMV
ACENAPHTHENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-4
Prism Sample ID: AC42589
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 15:41
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
ACENAPHTHYLENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
ANTHRACENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BENZO(A)ANTHRACENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BENZO(B)FLUORANTHENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BENZO(K)FLUORANTHENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BENZO(A)PYRENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BENZO(GHI)PERYLENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2-CHLORONAPHTHALENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2-CHLOROPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
CHRYSENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
DIBENZOFURAN	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
1,2-DICHLORO BENZENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
1,3-DICHLORO BENZENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
1,4-DICHLORO BENZENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2,4-DICHLOROPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
DIETHYL PHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2,4-DIMETHYLPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
DIMETHYL PHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2,4-DINITROPHENOL	Not detected	ug/kg	37000	SW846-8270C	5/11/02 02:55	WAD
2,4-DINITROTOLUENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD
2,6-DINITROTOLUENE	Not detected	ug/kg	7400	SW846-8270C	5/11/02 02:55	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-4
Prism Sample ID: AC42589
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 15:41
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
FLUORANTHENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
FLUORENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
HEXACHLOROBENZENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
HEXACHLOROBUTADIENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
HEXACHLOROETHANE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
ISOPHORONE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	37000	SW846-8270C	5/1/02 02:55	WAD
2-METHYL NAPHTHALENE	15000	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
2-METHYL-PHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
4-METHYL-PHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
NAPHTHALENE	21000	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
NITROBENZENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
2-NITROPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
4-NITROPHENOL	Not detected	ug/kg	37000	SW846-8270C	5/1/02 02:55	WAD
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
PENTACHLOROPHENOL	Not detected	ug/kg	37000	SW846-8270C	5/1/02 02:55	WAD
PHENANTHRENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
PHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
PYRENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	7400	SW846-8270C	5/1/02 02:55	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-4
Prism Sample ID: AC42589
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 15:41
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Analysis note for Method 8260: Surrogates were diluted out.
Analysis note for Method VPH: Surrogates were diluted out.

Angela D. Overcash, V.P. Laboratory Services

Lab Report



Full Service Analytical & Environmental Solutions

5/16/02

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-P-5
 Prism Sample ID: AC42590
 Login Group: AO59H5
 Sample Collection Date/Time: 5/1/02 16:44
 Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
BROMOBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
BROMOCHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
BROMODICHLOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
BROMOFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
BROMOMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
N-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
SEC-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TERT-BUTYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CARBON TETRACHLORIDE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CHLORODIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CHLOROETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
CHLOROFORM	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CHLOROMETHANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
2-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
4-CHLOROTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
1,2-DIBROMOETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
DIBROMOMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,3-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,4-DICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2-DICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,3-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook R^c ▲
 re: 704/529-6364 ▲

0543 ▲ Charlotte, N
 : 1-800/529-6364 ▲

4-054

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-5
Prism Sample ID: AC42590
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 16:44
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2,2-DICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
ETHYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
HEXACHLOROBUTADIENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
ISOPROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
P-ISOPROPYLTOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
METHYLENE CHLORIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:59	KC
NAPHTHALENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
N-PROPYLBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
STYRENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TETRACHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TOLUENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TRICHLOROETHENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TRICHLOROFLUOROMETHANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,2,4-TRIMETHYLBENZENE	11	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
1,3,5-TRIMETHYLBENZENE	8.5	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
VINYL CHLORIDE	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
TOTAL XYLENES	9.6	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
2-BUTANONE (MEK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:59	KC
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	12.0	8260B/5035	5/7/02 21:59	KC
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:59	KC
ACETONE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:59	KC
CARBON DISULFIDE	Not detected	ug/kg	120.0	8260B/5035	5/7/02 21:59	KC
VINYL ACETATE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:59	KC

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-P-5
 Prism Sample ID: AC42590
 Login Group: AO59H5
 Sample Collection Date/Time: 5/1/02 16:44
 Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
2-HEXANONE	Not detected	ug/kg	60.0	8260B/5035	5/7/02 21:59	KC
IPE	Not detected	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
MTBE	29	ug/kg	6.0	8260B/5035	5/7/02 21:59	KC
SURR:DIBROMOFLUOROMETHANE	112	%	80-120	8260B/5035	5/7/02 21:59	KC
SURR:TOLUENE-D8	99	%	81-117	8260B/5035	5/7/02 21:59	KC
SURR:BROMOFLUOROBENZENE	109	%	74-121	8260B/5035	5/7/02 21:59	KC
C5-C8 Aliphatics	Not detected	mg/kg	7	MADEP VPH	5/7/02 10:46	
C9-C12 Aliphatics	Not detected	mg/kg	6	MADEP VPH	5/7/02 10:46	JYS
C9-C10 Aromatics	2.0	mg/kg	2	MADEP VPH	5/7/02 10:46	JYS
Surrogate % Recovery - PID	80	%	(70-130)	MADEP VPH	5/7/02 10:46	JYS
Surrogate % Recovery - FID	91	%	(70-130)	MADEP VPH	5/7/02 10:46	JYS
Dilution Factor	1	mg/kg		MADEP VPH	5/7/02 10:46	JYS
Dry Weight Received	19.83 g	mg/kg		MADEP VPH	5/7/02 10:46	JYS
EXTRACTION FOR EPH	Completed			MADEP-EPH	5/7/02 10:30	JMV
C9-C18 ALIPHATICS	Not detected	mg/kg	40	MADEP-EPH	5/15/02 15:24	KTE
C19-C36 ALIPHATICS	29	mg/kg	20	MADEP-EPH	5/15/02 15:24	KTE
C11-C22 AROMATICS	Not detected	mg/kg	20	MADEP-EPH	5/15/02 15:24	KTE
SURROGATE RECOVERY - ALIPHATIC	79	%	(40-140)	MADEP-EPH	5/15/02 15:24	KTE
SURROGATE RECOVERY - AROMATIC	64	%	(40-140)	MADEP-EPH	5/15/02 15:24	KTE
SURR:2-BROMONAPHTHALENE	63	%	(40-140)	MADEP-EPH	5/15/02 15:24	KTE
SURR:2-FLUOROBIPHENYL	66	%	(40-140)	MADEP-EPH	5/15/02 15:24	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/15/02 15:24	KTE
DRY WEIGHT	8.0 g	mg/kg		MADEP-EPH	5/15/02 15:24	KTE
CALCULATIONS BASED ON DRY WT.	88	% DRY WT.	0.01	SM 2540 G	5/8/02 19:30	GRI
PREP. METHOD 3550	Completed			SW846-3550B	5/8/02 10:00	JMV
ACENAPHTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WA

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-5
Prism Sample ID: AC42590
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 16:44
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
ACENAPHTHYLENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BENZO(A)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BENZO(B)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BENZO(K)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BENZO(A)PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BENZO(GHI)PERYLENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2-CHLORONAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2-CHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
CHRYSENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
DIBENZOFURAN	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
1,2-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
1,3-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
1,4-DICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,4-DICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
DIETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,4-DIMETHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
DIMETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,4-DINITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 03:43	WAD
2,4-DINITROTOLUENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,6-DINITROTOLUENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-5
Prism Sample ID: AC42590
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 16:44
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
FLUORENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
HEXACHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
HEXACHLOROBUTADIENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
HEXACHLOROETHANE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
ISOPHORONE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 03:43	WAD
2-METHYL NAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2-METHYL-PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
4-METHYL-PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
NAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
NITROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2-NITROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
4-NITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 03:43	WAD
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
PENTACHLOROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 03:43	WAD
PHENANTHRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 03:43	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

449 Springbrook Road ▲ P.O. Box 240543 ▲ Charlotte, NC 28224-0543
Phone: 704/529-6364 ▲ Toll Free Number: 1-800/529-6364 ▲ Fax: 704/525-0409

Lab Report



5/16/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-P-5
Prism Sample ID: AC42590
Login Group: AO59H5
Sample Collection Date/Time: 5/1/02 16:44
Lab Submittal Date/Time: 5/2/02 10:00

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Angela D. Overcash, V.P. Laboratory Services

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services Laboratory Name Prism Laboratories, Inc.
 Project Name 053 NC Certification # (Lab) _____
 Site Location _____ Sample Matrix Soil

Sample Information and Analytical Results									
Method for Ranges: MADEP VPH		Sample Identification		AC42586	AC42587	AC42588	AC42590		
VPH Surrogate Standards		Collection Option (for soil)*		1	1	1	1		
Aliphatic: 2,5-Dibromotoluene		Date Collected		5/1/02	5/1/02	5/1/02	5/1/02		
Aromatic: 2,5-Dibromotoluene		Date Received		5/2/02	5/2/02	5/2/02	5/2/02		
		Date Extracted		5/6/02	5/6/02	5/6/02	5/6/02		
		Date Analyzed		5/7/02	5/7/02	5/7/02	5/7/02		
		% Dry Solids		84%	91%	81%	88%		
		Dilution Factor		1	5	1	1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	Sample Results				
C5 - C8 Aliphatics**	mg/kg	2.0	7.0	<7.0	<35	<7.0	<7.0		
C9 - C12 Aliphatics**	mg/kg	1.3	6.0	<6.0	<30	<6.0	<6.0		
C9 - C10 Aromatics**	mg/kg	0.4	2.0	<2.0	12	<2.0	<2.0		
Sample Surrogate Acceptance Range					70-130%	70-130%	70-130%		
Aliphatic Surrogate % Recovery - FID					87%	99%	101%		
Aromatic Surrogate % Recovery - PID					79%	75%	108%		

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached

Were any significant modifications to the VPH method made? Yes No - Details Attached

* No trip blank was submitted.

Page 1 of 2 VPH

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services Laboratory Name Prism Laboratories, Inc.
 Project Name 053 NC Certification # (Lab) _____
 Site Location _____ Sample Matrix Soil

Sample Information and Analytical Results					
Method for Ranges: MADEP VPH		Sample Identification	AC42589		
VPH Surrogate Standards		Collection Option (for soil)*	1		
Aliphatic: 2,5-Dibromotoluene		Date Collected	5/1/02		
Aromatic: 2,5-Dibromotoluene		Date Received	5/2/02		
		Date Extracted	5/6/02		
		Date Analyzed	5/10/02		
		% Dry Solids	92%		
		Dilution Factor	100		
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	Sample Results
C5 - C8 Aliphatics**	mg/kg	2.0	7.0	<7.0	780
C9 - C12 Aliphatics**	mg/kg	1.3	6.0	<6.0	1300
C9 - C10 Aromatics**	mg/kg	0.4	2.0	<2.0	710
Sample Surrogate Acceptance Range					
Aliphatic Surrogate % Recovery - FID				70-130%	70-130%
Aromatic Surrogate % Recovery - PID				118%	DO *
				98%	DO *

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

VPH rev. 11/00

Yes
No

No - Details Attached
 Yes - Details Attached

Were all performance/acceptance standards for required QA/QC procedures achieved?

Were any significant modifications to the VPH method made?

* No trip blank was submitted * Surrogate recoveries were diluted out.

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services
 Project Name 053
 Site Location _____

Laboratory Name Prism Laboratories, Inc
 NC Certification # (Lab) _____
 Sample Matrix Soil

Sample Information and Analytical Results									
Method for Ranges: MADEP EPH		Sample Identification							
EPH Surrogate Standards		Date Collected	AC42586	AC42587	AC42588	AC42589			
Aliphatic: 1-Chloro-octadecane		5/1/02	5/1/02	5/1/02	5/1/02	5/1/02			
Aromatic: o-Terphenyl		5/2/02	5/2/02	5/2/02	5/2/02	5/2/02			
EPH Fractionation Surrogates		5/7/02	5/7/02	5/7/02	5/7/02	5/7/02			
#1:	2-Bromonaphthalene	5/15/02	5/15/02	5/15/02	5/15/02	5/15/02			
#2:	2-Fluorobiphenyl	84%	84%	91%	81%	92%			
Hydrocarbon Ranges		Units of Measure	MDL	RL	Blank	Sample Results			
C9 - C18 Aliphatics*	mg/kg	10	<40	40	<40	<40	360	<40	60
C19 - C36 Aliphatics*	mg/kg	5.7	<20	20	<20	<20	170	<20	<20
C11 - C22 Aromatics*	mg/kg	16	<20	20	<20	<20	310	<20	72
Sample Surrogate Acceptance Range					40-140%	40-140%	40-140%	40-140%	40-140%
Aliphatic Surrogate % Recovery					124%	75%	82%	131%	87%
Aromatic Surrogate % Recovery					92%	55%	70%	96%	61%
Fractionation Surrogate Acceptance Range					40-140%	40-140%	40-140%	40-140%	40-140%
Fractionation Surrogate #1 % Recovery					95%	62%	64%	109%	87%
Fractionation Surrogate #2 % Recovery					106%	66%	70%	120%	85%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached

Was blank correction applied as a significant modification of the method? Yes No

Were any significant modifications to the EPH method made? No Yes - Details Attached

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services Laboratory Name Prism Laboratories, Inc.
 Project Name 053 NC Certification # (Lab) _____
 Site Location _____ Sample Matrix Soil

Sample Information and Analytical Results			
Method for Ranges: MADEP EPH		Sample Identification	AC42590
EPH Surrogate Standards		Date Collected	5/1/02
Aliphatic: 1-Chloro-octadecane		Date Received	5/2/02
Aromatic: o-Terphenyl		Date Extracted	5/7/02
EPH Fractionation Surrogates		Date Analyzed	5/15/02
#1: 2-Bromonaphthalene		% Dry Solids	80%
#2: 2-Fluorobiphenyl		Dilution Factor	1
Hydrocarbon Ranges	Units of Measure	MDL	Blank
C9 - C18 Aliphatics*	mg/kg	10	<40
C19 - C36 Aliphatics*	mg/kg	5.7	<20
C11 - C22 Aromatics*	mg/kg	16	<20
Sample Surrogate Acceptance Range			
Aliphatic Surrogate % Recovery			40-140%
Aromatic Surrogate % Recovery			124%
Fractionation Surrogate Acceptance Range			92%
Fractionation Surrogate #1 % Recovery			40-140%
Fractionation Surrogate #2 % Recovery			95%
			106%
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank			

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached

Was blank correction applied as a significant modification of the method? Yes No

Were any significant modifications to the EPH method made? No Yes - Details Attached

Lab Report



Full Service Analytical & Environmental Solutions

5/23/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-4
Prism Sample ID: AC42712
Login Group: AO510H1
Sample Collection Date/Time: 5/2/02 13:22
Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
BENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
BROMOBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
BROMOCHLOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
BROMODICHLOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
BROMOFORM	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
BROMOMETHANE	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
N-BUTYLBENZENE	820	ug/kg	270	8260B/5035	5/10/02 14:15	MP
SEC-BUTYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TERT-BUTYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CARBON TETRACHLORIDE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CHLORODIBROMOMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CHLOROETHANE	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
CHLOROFORM	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CHLOROMETHANE	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
2-CHLOROTOLUENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
4-CHLOROTOLUENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
1,2-DIBROMOETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
DIBROMOMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,3-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,4-DICHLOROENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1-DICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2-DICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP

NC Certification No. 402 - SC Certification No. 99012 NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-4
Prism Sample ID: AC42712
Login Group: AO510H1
Sample Collection Date/Time: 5/2/02 13:22
Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
1,3-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
2,2-DICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
ETHYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
HEXACHLOROBUTADIENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
ISOPROPYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
P-ISOPROPYLTOLUENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
METHYLENE CHLORIDE	Not detected	ug/kg	5400	8260B/5035	5/10/02 14:15	MP
NAPHTHALENE	580	ug/kg	270	8260B/5035	5/10/02 14:15	MP
N-PROPYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
STYRENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TETRACHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TOLUENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2,3-TRICHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TRICHLOROETHENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TRICHLOROFUOROMETHANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,2,4-TRIMETHYLBENZENE	390	ug/kg	270	8260B/5035	5/10/02 14:15	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
VINYL CHLORIDE	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
TOTAL XYLENES	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
2-BUTANONE (MEK)	Not detected	ug/kg	2700	8260B/5035	5/10/02 14:15	MP
2-CHLOROETHYL VINYL ETHER	Not detected	ug/kg	540	8260B/5035	5/10/02 14:15	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/kg	2700	8260B/5035	5/10/02 14:15	MP
ACETONE	Not detected	ug/kg	5400	8260B/5035	5/10/02 14:15	MP
CARBON DISULFIDE	Not detected	ug/kg	5400	8260B/5035	5/10/02 14:15	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



5/23/02

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JA Jones Management Services
 Mr. James Tan
 6135 Park South Dr, Ste 250
 Charlotte, NC 28210

Customer Project ID: 053
 Customer Sample ID: LCH4034-4
 Prism Sample ID: AC42712
 Login Group: AO510H1
 Sample Collection Date/Time: 5/2/02 13:22
 Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
VINYL ACETATE	Not detected	ug/kg	2700	8260B/5035	5/10/02 14:15	MP
CIS-1,3-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
TRANS-1,3-DICHLOROPROPENE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
2-HEXANONE	Not detected	ug/kg	2700	8260B/5035	5/10/02 14:15	MP
IPE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
MTBE	Not detected	ug/kg	270	8260B/5035	5/10/02 14:15	MP
SURR:DIBROMOFLUOROMETHANE	101	%	80-120	8260B/5035	5/10/02 14:15	MP
SURR:TOLUENE-D8	120	%	81-117	8260B/5035	5/10/02 14:15	MP
SURR:BROMOFLUOROBENZENE	121	%	74-121	8260B/5035	5/10/02 14:15	MP

C5-C8 Aliphatics	11	mg/kg	7	MADEP VPH	5/9/02 04:55	JYS
C9-C12 Aliphatics	34	mg/kg	6	MADEP VPH	5/9/02 04:55	JYS
C9-C10 Aromatics	13	mg/kg	2	MADEP VPH	5/9/02 04:55	JYS
Surrogate % Recovery - PID	96	%	(70-130)	MADEP VPH	5/9/02 04:55	JYS
Surrogate % Recovery - FID	86	%	(70-130)	MADEP VPH	5/9/02 04:55	JYS
Dilution Factor	1	mg/kg		MADEP VPH	5/9/02 04:55	JYS
Dry Weight Received	22.42 g	mg/kg		MADEP VPH	5/9/02 04:55	JYS

EXTRACTION FOR EPH	Completed			MADEP-EPH	5/8/02 07:00	JDP
C9-C18 ALIPHATICS	180	mg/kg	40	MADEP-EPH	5/23/02 02:18	KTE
C19-C36 ALIPHATICS	69	mg/kg	20	MADEP-EPH	5/23/02 02:18	KTE
C11-C22 AROMATICS	140	mg/kg	20	MADEP-EPH	5/23/02 02:18	KTE
SURROGATE RECOVERY - ALIPHATIC	84	%	(40-140)	MADEP-EPH	5/23/02 02:18	KTE
SURROGATE RECOVERY - AROMATIC	65	%	(40-140)	MADEP-EPH	5/23/02 02:18	KTE
SURR:2-BROMONAPHTHALENE	64	%	(40-140)	MADEP-EPH	5/23/02 02:18	KTE
SURR:2-FLUOROBIPHENYL	58	%	(40-140)	MADEP-EPH	5/23/02 02:18	KTE
DILUTION FACTOR	1	mg/kg		MADEP-EPH	5/23/02 02:18	KTE
DRY WEIGHT	9.1 g	mg/kg		MADEP-EPH	5/23/02 02:18	KTE

CALCULATIONS BASED ON DRY WT.	91	% DRY WT.	0.01	SM 2540 G	5/9/02 10:00	GRR
PREP. METHOD 3550	Completed			SW846-3550B	5/8/02 10:00	JMV

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



Full Service Analytical & Environmental Solutions

5/23/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-4
Prism Sample ID: AC42712
Login Group: AO510H1
Sample Collection Date/Time: 5/2/02 13:22
Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
ACENAPHTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
ACENAPHTHYLENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BENZO(A)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BENZO(B)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BENZO(K)FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BENZO(A)PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BENZO(GHI)PERYLENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BIS(2-CHLOROETHOXY)METHANE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BIS(2-CHLOROETHYL)ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BIS(2-CHLOROISOPROPYL)ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BIS(2-ETHYLHEXYL)PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
4-BROMOPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
BUTYL BENZYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
4-CHLORO-3-METHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2-CHLORONAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2-CHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
4-CHLOROPHENYL PHENYL ETHER	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
CHRYSENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DIBENZO(A,H)ANTHRACENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DIBENZOFURAN	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DI-N-BUTYLPHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
1,2-DICHLOROBEZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
1,3-DICHLOROBEZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
1,4-DICHLOROBEZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2,4-DICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DIETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2,4-DIMETHYLPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DIMETHYL PHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2,4-DINITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 04:31	WAD
2,4-DINITROTOLUENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



5/23/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-4
Prism Sample ID: AC42712
Login Group: AO510H1
Sample Collection Date/Time: 5/2/02 13:22
Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

<u>TEST PARAMETER</u>	<u>TEST RESULT</u>	<u>UNITS</u>	<u>REPORTING LIMIT</u>	<u>METHOD REFERENCE</u>	<u>DATE/TIME STARTED</u>	<u>ANALYST</u>
2,6-DINITROTOLUENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
DI-N-OCTYLPHTHALATE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
FLUORANTHENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
FLUORENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
HEXACHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
HEXACHLOROBUTADIENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
HEXACHLOROCYCLOPENTADIENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
HEXACHLOROETHANE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
INDENO(1,2,3-CD)PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
ISOPHORONE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2-METHYL-4,6-DINITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 04:31	WAD
2-METHYL NAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2-METHYL-PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
4-METHYL-PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
NAPHTHALENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
NITROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2-NITROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
4-NITROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 04:31	WAD
N-NITROSODIPHENYLAMINE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
N-NITROSODI-N-PROPYLAMINE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
PENTACHLOROPHENOL	Not detected	ug/kg	1900	SW846-8270C	5/11/02 04:31	WAD
PHENANTHRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
PHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
PYRENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
1,2,4-TRICHLOROBENZENE	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2,4,5-TRICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD
2,4,6-TRICHLOROPHENOL	Not detected	ug/kg	380	SW846-8270C	5/11/02 04:31	WAD

NC Certification No. 402 SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

Lab Report



5/23/02

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JA Jones Management Services
Mr. James Tan
6135 Park South Dr, Ste 250
Charlotte, NC 28210

Customer Project ID: 053
Customer Sample ID: LCH4034-4
Prism Sample ID: AC42712
Login Group: AO510H1
Sample Collection Date/Time: 5/2/02 13:22
Lab Submittal Date/Time: 5/3/02 09:10

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Analysis note for Method 8260: Surrogate out of range due to matrix.

Angela D. Overcash, V.P. Laboratory Services

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services Laboratory Name Prism Laboratories, Inc.
 Project Name 053 NC Certification # (Lab) _____
 Site Location _____ Sample Matrix Soil

Sample Information and Analytical Results					
Method for Ranges: MADEP VPH		Sample Identification	AC42712		
		Collection Option (for soil)*	1		
VPH Surrogate Standards		Date Collected	5/2/02		
Aliphatic: 2,5-Dibromotoluene		Date Received	5/3/02		
Aromatic: 2,5-Dibromotoluene		Date Extracted	5/8/02		
		Date Analyzed	5/9/02		
		% Dry Solids	91%		
		Dilution Factor	1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	Blank	Sample Results
C5 - C8 Aliphatics**	mg/kg	2.0	7.0	<7.0	11
C9 - C12 Aliphatics**	mg/kg	1.3	6.0	<6.0	34
C9 - C10 Aromatics**	mg/kg	0.4	2.0	<2.0	13
Sample Surrogate Acceptance Range					
Aliphatic Surrogate % Recovery - FID				70-130%	
Aromatic Surrogate % Recovery - PID				118%	86%
				98%	96%

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank or Trip Blank whichever is higher (indicate type)

Yes **No - Details Attached**
 No **Yes - Details Attached**

Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

* No trip blank was submitted.

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name JA Jones Management Services
 Project Name 053
 Site Location _____

Laboratory Name Prism Laboratories, Inc.
 NC Certification # (Lab) _____
 Sample Matrix Soil

Sample Information and Analytical Results			
Method for Ranges: MADEP EPH	Sample Identification	Date Collected	AC42712
EPH Surrogate Standards		5/2/02	
Aliphatic: 1-Chloro-octadecane		5/3/02	
Aromatic: o-Terphenyl		5/8/02	
EPH Fractionation Surrogates		5/23/02	
#1: 2-Bromonaphthalene	% Dry Solids	91%	
#2: 2-Fluorobiphenyl	Dilution Factor	1	
Hydrocarbon Ranges	Units of Measure	MDL	Sample Results
C9 - C18 Aliphatics*	mg/kg	10	<40
C19 - C36 Aliphatics*	mg/kg	5.7	<20
C11 - C22 Aromatics*	mg/kg	16	<20
Sample Surrogate Acceptance Range			40-140%
Aliphatic Surrogate % Recovery			84%
Aromatic Surrogate % Recovery			65%
Fractionation Surrogate Acceptance Range			40-140%
Fractionation Surrogate #1 % Recovery			76%
Fractionation Surrogate #2 % Recovery			70%

* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit Blank = Laboratory Method Blank

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes No - Details Attached

Was blank correction applied as a significant modification of the method? Yes No

Were any significant modifications to the EPH method made? No Yes - Details Attached

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Polynuclear Aromatic Hydrocarbons

EPA 610 by GCMS 625

Client Sample ID: USTLCH4015-MW03-02A

Client Project ID: LCH4015

Lab Sample ID: 38093

Lab Project ID: G182-755

Matrix: Water

Date Collected: 2/21/2002

Date Received: 2/22/2002

Date Analyzed: 3/1/2002

Analyzed By: MRC

Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Chrysene	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
1-Methylnaphthalene	10	27
2-Methylnaphthalene	10	BQL
Naphthalene	10	57
Phenanthrene	10	BQL
Pyrene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.3	103
Nitrobenzene-d5	10	10.3	103
4-Terphenyl-d14	10	6.6	66

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By: 

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Volatiles

by GC 602

Client Sample ID: USTLCH4015-MW03-02A
Client Project ID: LCH4015
Lab Sample ID: 38093
Lab Project ID: G182-755

Analyzed By: EES
Date Collected: 02/21/02
Date Received: 02/22/02
Matrix: Water

Compound	Date Analyzed	Dilution	Quantitation Limit (ug/L)	Result (ug/L)
Benzene	2/27/02	8	8	210
Chlorobenzene	2/27/02	8	8	BQL
1,2-Dichlorobenzene	2/27/02	8	16	BQL
1,3-Dichlorobenzene	2/27/02	8	16	BQL
1,4-Dichlorobenzene	2/27/02	8	16	BQL
Ethylbenzene	2/27/02	8	8	84
Methyl-tert-butyl ether (MTBE)	2/27/02	8	16	37
Toluene	2/27/02	8	8	
m/p-Xylene	2/27/02	8	16	33
o-Xylene	2/27/02	8	16	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
Trifluorotoluene	40	35	88

Comments:

All values corrected for dilution.

Flags:

BQL = Below quantitation limit

Reviewed By: 

PARADIGM ANALYTICAL LABORATORIES

Chain-of-Custody Record & Analytical Request
 2627 Northchase Parkway SE, Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

Client: J.A. JONES
 Address: 8936 WESTERN WAY
 Address: SUITE 10
 Jacksonville, Fla. 32256

Project ID: LCH4015
 P.O Number:
 Contact: Tracy Thrift
 Phone: 904-363-091

Date: 7/21/02
 Turnaround: STANDARD
 Job Number: T.O.37A
 Page: 1 OF 3

Report To: Tracy Thrift
 Invoice To: T.O.37A

Paradigm Quote #:

Sample ID	Date	Time	Received By	Date	Time	Preservative & No. Bottles		Analyses			Comments	
						Hydrochloric Acid	Nitric Acid	None	Time	Temperature		Airbill #
USTLCH4015-MW01-02A	7/21/02	1005	W	3	1	1	X	X	X	525		
USTLCH4015-MW02-02A	7/21/02	1135	W	3	1	1	X	X	X	510		
USTLCH4015-MW03-02A	7/21/02	0830	W	3	1	1	X	X	X	502		
USTLCH4015-MW04-02A	7/21/02	0930	W	3	1	1	X	X	X			
USTLCH4015-MW05-02A	7/21/02	1120	W	3	1	1	X	X	X			
USTLCH4015-MW06-02A	7/21/02	1155	W	3	1	1	X	X	X			
USTLCH4015-MW07-02A	7/21/02	1525	W	3	1	1	X	X	X			
USTLCH4015-MW08-02A	7/21/02	0855	W	3	1	1	X	X	X			
USTLCH4015-MW09-02A	7/21/02	0805	W	3	1	1	X	X	X			
USTLCH4015-MW10-02A	7/21/02	1245	W	3	1	1	X	X	X			
Requisitioned By: Theresa Ellerman Date: 7/21/02 Time: 1:00 Received By: [Signature] Date: 7/21/02 Time: [Signature] Temperature: [Signature]												
										Sampled By:	Bob	
										Airbill #:	Theresa	

C182-755

**602 TO INCLUDE MTBE

EDD

Send To:

evansp@clb.usmc.mil

Copy To:

pauln@clb.usmc.mil

MW4-11118

POWDERED

QUARTER 1000

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Results for Volatiles
by GC 602

Client Sample ID: USTLCH4015-MW03-02B
 Client Project ID: LCH4015
 Lab Sample ID: 44307
 Lab Project ID: G182-771

Analyzed By: EKR
 Date Collected: 05/22/02
 Date Received: 05/23/02
 Matrix: Water

Compound	Date Analyzed	Dilution	Quantitation Limit (ug/L)	Result (ug/L)
Benzene	5/29/02	5	5	160
Chlorobenzene	5/29/02	5	5	BQL
1,2-Dichlorobenzene	5/29/02	5	10	BQL
1,3-Dichlorobenzene	5/29/02	5	10	BQL
1,4-Dichlorobenzene	5/29/02	5	10	BQL
Ethylbenzene	5/29/02	5	5	56
Methyl-tert-butyl ether (MTBE)	5/29/02	5	10	BQL
Toluene	5/29/02	5	5	BQL
m/p-Xylene	5/29/02	5	10	16
o-Xylene	5/29/02	5	10	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
Trifluorotoluene	40	40	

Comments:

All values corrected for dilution.

Flags:

BQL = Below quantitation limit

Reviewed By: 

Results for Polynuclear Aromatic Hydrocarbons

EPA 610 by GCMS 625

Client Sample ID: USTLCH4015-MW03-02B

Date Collected: 5/22/2002

Client Project ID: LCH4015

Date Received: 5/23/2002

Lab Sample ID: 44307

Date Analyzed: 5/29/2002

Lab Project ID: G182-771

Analyzed By: MRC

Matrix: Water

Dilution: 1

Compound	Quantitation Limit (ug/L)	Result (ug/L)
Acenaphthene	10	BQL
Acenaphthylene	10	BQL
Anthracene	10	BQL
Benzo[a]anthracene	10	BQL
Benzo[a]pyrene	10	BQL
Benzo[b]fluoranthene	10	BQL
Benzo[g,h,i]perylene	10	BQL
Benzo[k]fluoranthene	10	BQL
Chrysene	10	BQL
Dibenzo[a,h]anthracene	10	BQL
Fluoranthene	10	BQL
Fluorene	10	BQL
Indeno(1,2,3-c,d)pyrene	10	BQL
1-Methylnaphthalene	10	26
2-Methylnaphthalene	10	BQL
Naphthalene	10	40
Phenanthrene	10	BQL
Pyrene	10	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.0	90
Nitrobenzene-d5	10	10.1	101
4-Terphenyl-d14	10	7.5	75

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By: 

PARADIGM ANALYTICAL LABORATORIES
 Chain-of-Custody Record & Analytical Request
 2827 Northchase Parkway SE, Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557

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 P.O Number:
 Contact: Tracy Thrift
 Phone: 904-363-0911

Date: 5/22/02
 Turnaround: STANDARD
 Job Number: T.O.37A
 Page: 1 OF 1

Report To: Tracy Thrift
 Invoice To: T.O. 37A

Paradigm Quote # :

Sample ID	Date	Time	Weight	Acid	Volume	Concentration	Analysis	Comments
USTLCH4015-MW01-02B	5/22/02	0900	W 3	Hydrochloric Acid	1	None	902 X X	G/82-771 **802 TO INCLUDE MTBE
USTLCH4015-MW02-02B	5/22/02	0915	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-MW03-02B	5/22/02	0950	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-MW05-02B	5/22/02	1050	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-MW09-02B	5/22/02	1010	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-MW11-02B	5/22/02	1025	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-DUP1-02B	5/22/02	---	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-DUP2-02B	5/22/02	---	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-EQ-02B	5/22/02	1115	W 3	Hydrochloric Acid	1	None	902 X X	
USTLCH4015-TRIP-02B	5/22/02	---	W 2	Hydrochloric Acid	1	None	902 X	
Theresa Edman Signature: <i>[Handwritten Signature]</i> Date: 5/22/02 Time: 16:00								BOB

APPENDIX G

Photographs of UST Closure Activities

UST Removal
Marine Corps Base
Camp Lejeune, North Carolina
UST #LCH4034-1-3



Photo #1 Excavating to Expose tanks.



Photo #2 Groundwater in the excavation pit.

UST Removal
Marine Corps Base
Camp Lejeune, North Carolina



Photo #3 UST LCH 4034-3 (2,500-gallon) removed out of ground.



Photo #4 UST LCH 4034-2 (10,000-gallon) removed out of ground.

UST Removal
Marine Corps Base
Camp Lejeune, North Carolina



Photo #5 UST LCH 4034-1 (10,000-gallon) removed out of ground.

UST Removal
Marine Corps Base
Camp Lejeune, North Carolina



Photo #6 Free product in fuel supply line trench