

21375

J Thom
1/24/08

GW

LEACHATE

CITRUS COUNTY CENTRAL LANDFILL

SECOND SEMIANNUAL 2006

DEP PERMIT NO. 21375-008-SO/01

DEP Due Date: January 15, 2007

**Dept. of Environmental
Protection**

JAN 10 2007

Southwest District

Prepared by:

JONES EDMUNDS & ASSOCIATES, INC.

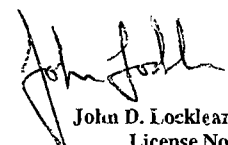
730 N.E. Waldo Road

Gainesville, Florida 32641-5699

Professional Engineering Certificate of Authorization # 1841

Professional Geology Certificate of Authorization #133

January 2007

 1/8/07

**John D. Locklear, P.G.
License No. 2467**



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JAN 10 2007
SOUTHWEST DISTRICT
TAMPA

January 10, 2007

Mr. John Morris, P.G.
Florida Department of Environmental Protection – Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Semiannual Groundwater Monitoring Report – Second Semiannual 2006
Citrus County Landfill
Permit No. 21375-008-SO/01
Jones Edmunds Project No. 03860-022-01

Dear Mr. Morris:

This report presents data from the Second Semiannual 2006 sampling event at the Citrus County Landfill, performed on July 17, 18, 19, 20, and September 22, 2006.

All groundwater monitoring wells including the groundwater investigation wells were sampled during this event and analyzed for the semiannual parameters. Additionally, the investigation wells were analyzed for select Semivolatile Organic Compounds (SVOC's) by EPA 8270. The additional SVOC's are included within this report and are being submitted as supplemental data to the initial sampling of these wells in November, 2005.

An additional sampling of the investigation wells is scheduled for January, 2007 in order to collect and report the eight remaining parameters included in the Appendix II Parameter list that were previously submitted with reporting limits that were greater than DEP PQL's. Kepone is not scheduled to be collected in these wells as it is not possible with current technology to report down to the DEP PQL for this parameter. Communication received on October 30, 2006 from DEP's QA Department by the County's subcontract laboratory Environmental Conservation Laboratories (ENCO) indicated that the laboratory has demonstrated its willingness to meet the Department's criteria and recommend that the past data submitted for the investigation wells be accepted. After a further telephone conversation between your office, Jones Edmunds, and Citrus County on November 21, 2006, it is our understanding that the submission of data collected in January, 2007 with reporting levels at or below DEP PQL's, will complete the data required to demonstrate compliance with the consent agreement.

Leachate effluent was collected on September 22nd, those results were submitted under separate cover on October 12, 2006.

730 NE Waldo Rd
Gainesville, FL 32641

352.377.5821 Phone
352-377.3166 Fax
www.jonesedmunds.com

Mr. John Morris, P.G.

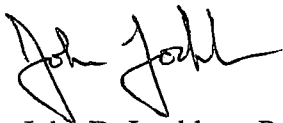
January 10, 2007

Page 2

Analysis results compared to groundwater standards are presented in Attachment 2. The data presented in Attachment 2 indicates that concentrations reported during this event are consistent with historical values with the following exceptions: Benzene (2 $\mu\text{g/L}$), Methylene Chloride (6 $\mu\text{g/L}$), and Vinyl Chloride (5 $\mu\text{g/L}$) in groundwater investigation well MW-10 are first time exceedances. MW-10 was resampled on August 31, 2006 confirming the exceedances mentioned above at the following levels: Benzene (1 $\mu\text{g/L}$), Methylene Chloride (5 $\mu\text{g/L}$), and Vinyl Chloride (2 $\mu\text{g/L}$). Results of that resampling are included in this report. Assessment actions under Rule 62-780 have been initiated to address exceedances in MW-10.

If you have any questions regarding this report, please contact us at (352) 377-5821.

Sincerely,



John D. Locklear, P.G.

Project Manager

xc: Susan Metcalfe, P.G.

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Attachment 1:	Groundwater Elevation Data and Groundwater Contour Map
Attachment 2:	Analysis Results Compared to Groundwater Standards
Attachment 3:	Groundwater and Leachate Parameters At or Above the Laboratory Detection Limit
Attachment 4:	Parameter Monitoring Report Forms
Attachment 5:	Original Laboratory Data
Attachment 6:	Original Field Data

Florida Department of Environmental Protection
 Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUNDWATER MONITORING REPORT

Rule 62-522.600 (11)

Part I GENERAL INFORMATION

- (1) Facility Name Citrus County Central Landfill
 Address P.O. Box 340
 City Lecanto, Florida Zip 34460-
 Telephone Number _____
- (2) The GMS Identification Number SWD/09/39859
- (3) DEP Permit Number 21375-008-SO/01
- (4) Authorized Representative Name Susan Metcalfe, P.G., Director, Division of Solid Waste
 Address P.O. Box 340
 City Lecanto, Florida Zip 34460-0340
 Telephone Number (352) 527-7671
- (5) Type of Discharge Landfill
- (6) Method of Discharge Groundwater

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Date: 12/28/06 Susan J. Metcalfe
 Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

- Sample Organization CompQAP # DEP SOP 001/01
- Analytical Lab CompQAP #/HRS Certification # E83182
CompQAP #/HRS Certification # _____
- Lab Name Environmental Conservation Laboratories, Inc.
- Address 10775 Central Point, Orlando, Florida 32824
- Phone Number (407) 826-5314

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



www.encolabs.com

Tuesday, October 3, 2006

Jones Edmunds & Associates, Inc. (JO006)

Attn: Lynne McDaniel

730 N.E. Waldo Road Bldg.A

Gainesville, FL 32641

**RE: Project Number: 03860-022-01, Project Name/Desc: Citrus Co. LF
ENCO Workorder: A604349**

Dear Lynne McDaniel,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, September 23, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "David M. Camacho". The signature is written in a cursive, flowing style.

David Camacho
Project Manager

Enclosure(s)



www.encolabs.com

LAB #		A604349-01	A604349-02	A604349-03	A604349-04	A604349-05	A604349-06
MATRIX	Minimum	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
SAMPLE ID	Reporting Limit	Leachate Effluent::06Q3CC -LEFF	Equip Blank LEFF::06Q3CC- LEFFEQB	Leach Left Stn. #1::06S2CC- LILS1	Leach Lift Stn. #2::06S2CC- LILS2	Equip Blank 4::06S2CC-EQB4	MW-6::06S2CC- 6

Volatile Organic Compounds by GCMS (Water)

1,1,1,2-Tetrachloroethane	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
1,1,1-Trichloroethane	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
1,1,2,2-Tetrachloroethane	0.20 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
1,1,2-Trichloroethane	1.0 ug/L	<0.40 [7]	<0.40 [7]	-	-	<0.40 [7]	<0.40 [7]
1,1-Dichloroethane	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
1,1-Dichloroethene	1.0 ug/L	<0.80 [7]	<0.80 [7]	-	-	<0.80 [7]	<0.80 [7]
1,2,3-Trichloropropane	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
1,2-Dichlorobenzene	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
1,2-Dichloroethane	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
1,2-Dichloropropane	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
1,4-Dichlorobenzene	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
2-Butanone	5.0 ug/L	1.4 [2]	<1.0 [7]	-	-	<1.0 [7]	<1.0 [7]
2-Hexanone	5.0 ug/L	<2.0 [7]	<2.0 [7]	-	-	<2.0 [7]	<2.0 [7]
4-Methyl-2-pentanone	5.0 ug/L	<2.0 [7]	<2.0 [7]	-	-	<2.0 [7]	<2.0 [7]
Acetone	5.0 ug/L	9.4	6.3	-	-	<3.0 [7]	<3.0 [7]
Acrylonitrile	2.0 ug/L	<2.0 [7]	<2.0 [7]	-	-	<2.0 [7]	<2.0 [7]
Benzene	1.0 ug/L	<0.10 [7]	<0.10 [7]	-	-	<0.10 [7]	0.70 [2]
Bromochloromethane	1.0 ug/L	<0.90 [7]	<0.90 [7]	-	-	<0.90 [7]	<0.90 [7]
Bromodichloromethane	0.40 ug/L	15	<0.20 [7]	-	-	<0.20 [7]	4.0
Bromoform	1.0 ug/L	4.4	<0.50 [7]	-	-	<0.50 [7]	1.3
Bromomethane	1.0 ug/L	<1.0 [7]	<1.0 [7]	-	-	<1.0 [7]	<1.0 [7]
Carbon disulfide	5.0 ug/L	<0.40 [7]	<0.40 [7]	-	-	<0.40 [7]	<0.40 [7]
Carbon tetrachloride	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
Chlorobenzene	1.0 ug/L	<0.10 [7]	<0.10 [7]	-	-	<0.10 [7]	<0.10 [7]
Chloroethane	1.0 ug/L	<0.50 [7]	<0.50 [7]	-	-	<0.50 [7]	<0.50 [7]
Chloroform	1.0 ug/L	9.1	<0.20 [7]	-	-	<0.20 [7]	4.3
Chloromethane	1.0 ug/L	<0.60 [7]	<0.60 [7]	-	-	<0.60 [7]	<0.60 [7]
cis-1,2-Dichloroethene	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	0.98 [2]
cis-1,3-Dichloropropene	0.20 ug/L	<0.10 [7]	<0.10 [7]	-	-	<0.10 [7]	<0.10 [7]
Dibromochloromethane	0.20 ug/L	12	<0.20 [7]	-	-	<0.20 [7]	4.9
Dibromomethane	1.0 ug/L	<0.40 [7]	<0.40 [7]	-	-	<0.40 [7]	<0.40 [7]
Ethylbenzene	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
Iodomethane	3.0 ug/L	<1.0 [7]	<1.0 [7]	-	-	<1.0 [7]	<1.0 [7]
m,p-Xylenes	2.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	1.9 [2]
Methylene chloride	2.0 ug/L	<1.0 [7]	<1.0 [7]	-	-	<1.0 [7]	2.5
o-Xylene	1.0 ug/L	<0.60 [7]	<0.60 [7]	-	-	<0.60 [7]	0.86 [2]
Styrene	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
Tetrachloroethene	1.0 ug/L	<0.60 [7]	<0.60 [7]	-	-	<0.60 [7]	<0.60 [7]
Toluene	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
trans-1,2-Dichloroethene	1.0 ug/L	<0.80 [7]	<0.80 [7]	-	-	<0.80 [7]	<0.80 [7]
trans-1,3-Dichloropropene	0.20 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
trans-1,4-Dichloro-2-butene	1.0 ug/L	<0.50 [7]	<0.50 [7]	-	-	<0.50 [7]	<0.50 [7]
Trichloroethene	1.0 ug/L	<0.30 [7]	<0.30 [7]	-	-	<0.30 [7]	<0.30 [7]
Trichlorofluoromethane	1.0 ug/L	<0.70 [7]	<0.70 [7]	-	-	<0.70 [7]	<0.70 [7]



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LAB #		A604349-01	A604349-02	A604349-03	A604349-04	A604349-05	A604349-06
MATRIX	Minimum	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
SAMPLE ID	Reporting Limit	Leachate Effluent::06Q3CC -LEFF	Equip Blank LEFF::06Q3CC- LEFFEQB	Leach Left Stn. #1::06S2CC- LILS1	Leach Lift Stn. #2::06S2CC- LILS2	Equip Blank 4::06S2CC-EQB4	MW-6::06S2CC- 6

Volatile Organic Compounds by GCMS (continued)

Vinyl acetate	1.0 ug/L	<0.20 [7]	<0.20 [7]	-	-	<0.20 [7]	<0.20 [7]
Vinyl chloride	1.0 ug/L	<0.50 [7]	<0.50 [7]	-	-	<0.50 [7]	1.3
Toluene-d8	132 [surr]	88%	100%	-	-	100%	97%
4-Bromofluorobenzene	135 [surr]	100%	120%	-	-	110%	110%
Dibromofluoromethane	149 [surr]	72%	84%	-	-	81%	78%
1,1,1,2-Tetrachloroethane	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,1,1-Trichloroethane	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,1,2,2-Tetrachloroethane	0.20 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,1,2-Trichloroethane	1.0 ug/L	-	-	<0.40 [7]	<0.40 [7]	-	-
1,1-Dichloroethane	1.0 ug/L	-	-	<0.30 [7]	2.8	-	-
1,1-Dichloroethene	1.0 ug/L	-	-	<0.80 [7]	<0.80 [7]	-	-
1,1-Dichloropropene	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,2,3-Trichloropropane	1.0 ug/L	-	-	<0.30 [7]	<0.30 [7]	-	-
1,2,4-Trichlorobenzene	1.0 ug/L	-	-	<0.30 [7]	<0.30 [7]	-	-
1,2-Dichlorobenzene	1.0 ug/L	-	-	<0.30 [7]	<0.30 [7]	-	-
1,2-Dichloroethane	1.0 ug/L	-	-	<0.30 [7]	11	-	-
1,2-Dichloropropane	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,3-Dichlorobenzene	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
1,3-Dichloropropane	1.0 ug/L	-	-	<0.40 [7]	<0.40 [7]	-	-
1,4-Dichlorobenzene	1.0 ug/L	-	-	11	0.74 [2]	-	-
2,2-Dichloropropane	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
2-Butanone	5.0 ug/L	-	-	<1.0 [7]	140	-	-
2-Hexanone	5.0 ug/L	-	-	<2.0 [7]	<2.0 [7]	-	-
3-Chloropropene	1.0 ug/L	-	-	<0.30 [7]	<0.30 [7]	-	-
4-Methyl-2-pentanone	5.0 ug/L	-	-	<2.0 [7]	14	-	-
Acetone	5.0 ug/L	-	-	14	57	-	-
Acetonitrile	10 ug/L	-	-	32	<3.0 [7]	-	-
Acrolein	10 ug/L	-	-	<3.0 [7]	<3.0 [7]	-	-
Acrylonitrile	2.0 ug/L	-	-	<2.0 [7]	<2.0 [7]	-	-
Benzene	1.0 ug/L	-	-	1.9	8.8	-	-
Bromochloromethane	1.0 ug/L	-	-	<0.90 [7]	<0.90 [7]	-	-
Bromodichloromethane	0.40 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
Bromoform	1.0 ug/L	-	-	<0.50 [7]	<0.50 [7]	-	-
Bromomethane	1.0 ug/L	-	-	<1.0 [7]	<1.0 [7]	-	-
Carbon disulfide	5.0 ug/L	-	-	<0.40 [7]	<0.40 [7]	-	-
Carbon tetrachloride	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
Chlorobenzene	1.0 ug/L	-	-	3.5	<0.10 [7]	-	-
Chloroethane	1.0 ug/L	-	-	<0.50 [7]	<0.50 [7]	-	-
Chloroform	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
Chloromethane	1.0 ug/L	-	-	<0.60 [7]	<0.60 [7]	-	-
Chloroprene	1.0 ug/L	-	-	<0.40 [7]	<0.40 [7]	-	-
cis-1,2-Dichloroethene	1.0 ug/L	-	-	0.92 [2]	6.0	-	-
cis-1,3-Dichloropropene	0.20 ug/L	-	-	<0.10 [7]	<0.10 [7]	-	-
Dibromochloromethane	0.20 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-



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LAB #		A604349-01	A604349-02	A604349-03	A604349-04	A604349-05	A604349-06
MATRIX	Minimum	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
SAMPLE ID	Reporting Limit	Leachate Effluent::06Q3CC-LEFF	Equip Blank LEFF::06Q3CC-LEFFEQB	Leach Left Stn. #1::06S2CC-LILS1	Leach Lift Stn. #2::06S2CC-LILS2	Equip Blank 4::06S2CC-EQB4	MW-6::06S2CC-6

Volatile Organic Compounds by GCMS (continued)

Dibromomethane	1.0 ug/L	-	-	<0.40 [7]	<0.40 [7]	-	-
Dichlorodifluoromethane	1.0 ug/L	-	-	<0.50 [7]	<0.50 [7]	-	-
Ethyl Methacrylate	2.0 ug/L	-	-	<0.50 [7]	<0.50 [7]	-	-
Ethylbenzene	1.0 ug/L	-	-	42	24	-	-
Hexachlorobutadiene	1.0 ug/L	-	-	<0.70 [7]	<0.70 [7]	-	-
Iodomethane	3.0 ug/L	-	-	<1.0 [7]	<1.0 [7]	-	-
Isobutyl alcohol	20 ug/L	-	-	<4.0 [7]	<4.0 [7]	-	-
m,p-Xylenes	2.0 ug/L	-	-	11	29	-	-
Methacrylonitrile	10 ug/L	-	-	<4.0 [7]	<4.0 [7]	-	-
Methyl Methacrylate	1.0 ug/L	-	-	<1.0 [7]	<1.0 [7]	-	-
Methylene chloride	2.0 ug/L	-	-	<1.0 [7]	4.6	-	-
Naphthalene	1.0 ug/L	-	-	58	3.3	-	-
o-Xylene	1.0 ug/L	-	-	8.5	10	-	-
Propionitrile	10 ug/L	-	-	<2.0 [7]	<2.0 [7]	-	-
Styrene	1.0 ug/L	-	-	0.66 [2]	2.1	-	-
Tetrachloroethene	1.0 ug/L	-	-	<0.60 [7]	1.2	-	-
Toluene	1.0 ug/L	-	-	3.9	110	-	-
trans-1,2-Dichloroethene	1.0 ug/L	-	-	<0.80 [7]	<0.80 [7]	-	-
trans-1,3-Dichloropropene	0.20 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
trans-1,4-Dichloro-2-butene	1.0 ug/L	-	-	<0.50 [7]	<0.50 [7]	-	-
Trichloroethene	1.0 ug/L	-	-	<0.30 [7]	0.76 [2]	-	-
Trichlorofluoromethane	1.0 ug/L	-	-	<0.70 [7]	<0.70 [7]	-	-
Vinyl acetate	1.0 ug/L	-	-	<0.20 [7]	<0.20 [7]	-	-
Vinyl chloride	1.0 ug/L	-	-	<0.50 [7]	2.1	-	-
Toluene-d8	132 [surr]	-	-	88%	85%	-	-
4-Bromofluorobenzene	135 [surr]	-	-	100%	100%	-	-
Dibromofluoromethane	149 [surr]	-	-	72%	69%	-	-

Semivolatile Organic Compounds by GC (Water)

1,2-Dibromoethane	0.0200 ug/L	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]
1,2-Dibromo-3-chloropropane	0.0200 ug/L	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]	<0.0040 [7]
1,3-Dichlorobenzene	140 [surr]	65.0%	67.7%	72.5%	134%	83.1%	64.1%

Metals by EPA 6000/7000 Series Methods (Water)

Antimony	0.5 ug/L	4 [2]	4 [2]	-	-	3 [2]	4 [2]
Arsenic	1.0 ug/L	12	<2.0 [7]	-	-	<2.0 [7]	2.3 [2]
Barium	10 ug/L	114	<12 [7]	-	-	<12 [7]	112
Beryllium	0.050 ug/L	<0.50 [7]	<0.50 [7]	-	-	<0.50 [7]	<0.50 [7]
Cadmium	0.50 ug/L	<1.7 [7]	<1.7 [7]	-	-	<1.7 [7]	<1.7 [7]
Chromium	1.0 ug/L	<6.2 [7]	<6.2 [7]	-	-	<6.2 [7]	<6.2 [7]
Cobalt	1 ug/L	13	<0.4 [7]	-	-	<0.4 [7]	3 [2]
Copper	0.5 ug/L	20	<3 [7]	-	-	<3 [7]	16
Iron	10 ug/L	<36 [7]	<36 [7]	-	-	<36 [7]	762
Lead	1.0 ug/L	<2.8 [7]	<2.8 [7]	-	-	<2.8 [7]	4.0 [2]
Mercury	0.20 ug/L	<0.11 [7]	<0.11 [7]	-	-	<0.11 [7]	<0.11 [7]



LAB #		A604349-01	A604349-02	A604349-03	A604349-04	A604349-05	A604349-06
MATRIX	Minimum	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
SAMPLE ID	Reporting Limit	Leachate Effluent::06Q3CC -LEFF	Equip Blank LEFF::06Q3CC- LEFFEQB	Leach Lift Stn. #1::06S2CC- LILS1	Leach Lift Stn. #2::06S2CC- LILS2	Equip Blank 4::06S2CC-EQB4	MW-6::06S2CC- 6

Metals by EPA 6000/7000 Series Methods (continued)

Nickel	1.0 ug/L	52	<2.6 [7]	-	-	<2.6 [7]	17
Selenium	1 ug/L	4 [2]	4 [2]	-	-	4 [2]	6 [2]
Silver	0.050 ug/L	<0.33 [7]	<0.33 [7]	-	-	<0.33 [7]	<0.33 [7]
Sodium	0.05 mg/L	462 [1]	<0.192 [7]	-	-	<0.192 [7]	120 [1]
Thallium	0.05 ug/L	1	<0.2 [7]	-	-	<0.2 [7]	1
Vanadium	1.0 ug/L	<2.6 [7]	<2.6 [7]	-	-	<2.6 [7]	<2.6 [7]
Zinc	10 ug/L	<100 [7]	<100 [7]	-	-	<100 [7]	<100 [7]

Classical Chemistry Parameters (Water)

Ammonia as N	0.02 mg/L	0.9	<0.003 [7]	-	-	<0.003 [7]	1
Chloride	1.00 mg/L	593 [1]	<0.05 [7]	-	-	<0.05 [7]	170
Nitrate as N	0.050 mg/L	-	-	-	-	<0.008 [7]	20.1 [1] [3]
Total Dissolved Solids	10 mg/L	1760	<10 [7]	-	-	<10 [7]	506

Field Parameters (Water)

Specific Conductance (EC)	0 umhos/cm	3047	-	9642	1534	-	864
Dissolved Oxygen	0.00 mg/L	4.03	-	2.40	3.35	-	1.18
pH	0.00 pH Units	8.03	-	7.23	6.33	-	4.33
Oxidation/Reduction Potential	mV	213.3	-	16.5	-57.0	-	306.5
Temperature	0.00 °C	27.25	-	33.17	27.49	-	26.47
Turbidity	0.0 NTU	0.92	-	2.06	20.6	-	1.27
Depth to Water	Ft	-	-	-	-	-	112



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LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank #1::06S2CC-TB1	Trip Blank #2::06S2CC-TB2	Comp Leachate INF	-	-	-

Volatile Organic Compounds by GCMS (Water)

1,1,1,2-Tetrachloroethane	1.0 ug/L	<0.20 [7]	-	-	-	-	-
1,1,1-Trichloroethane	1.0 ug/L	<0.20 [7]	-	-	-	-	-
1,1,2-Tetrachloroethane	0.20 ug/L	<0.20 [7]	-	-	-	-	-
1,1,2-Trichloroethane	1.0 ug/L	<0.40 [7]	-	-	-	-	-
1,1-Dichloroethane	1.0 ug/L	<0.30 [7]	-	-	-	-	-
1,1-Dichloroethene	1.0 ug/L	<0.80 [7]	-	-	-	-	-
1,2,3-Trichloropropane	1.0 ug/L	<0.30 [7]	-	-	-	-	-
1,2-Dichlorobenzene	1.0 ug/L	<0.30 [7]	-	-	-	-	-
1,2-Dichloroethane	1.0 ug/L	<0.30 [7]	-	-	-	-	-
1,2-Dichloropropane	1.0 ug/L	<0.20 [7]	-	-	-	-	-
1,4-Dichlorobenzene	1.0 ug/L	<0.20 [7]	-	-	-	-	-
2-Butanone	5.0 ug/L	<1.0 [7]	-	-	-	-	-
2-Hexanone	5.0 ug/L	<2.0 [7]	-	-	-	-	-
4-Methyl-2-pentanone	5.0 ug/L	<2.0 [7]	-	-	-	-	-
Acetone	5.0 ug/L	<3.0 [7]	-	-	-	-	-
Acrylonitrile	2.0 ug/L	<2.0 [7]	-	-	-	-	-
Benzene	1.0 ug/L	<0.10 [7]	-	-	-	-	-
Bromochloromethane	1.0 ug/L	<0.90 [7]	-	-	-	-	-
Bromodichloromethane	0.40 ug/L	<0.20 [7]	-	-	-	-	-
Bromoform	1.0 ug/L	<0.50 [7]	-	-	-	-	-
Bromomethane	1.0 ug/L	<1.0 [7]	-	-	-	-	-
Carbon disulfide	5.0 ug/L	<0.40 [7]	-	-	-	-	-
Carbon tetrachloride	1.0 ug/L	<0.20 [7]	-	-	-	-	-
Chlorobenzene	1.0 ug/L	<0.10 [7]	-	-	-	-	-
Chloroethane	1.0 ug/L	<0.50 [7]	-	-	-	-	-
Chloroform	1.0 ug/L	<0.20 [7]	-	-	-	-	-
Chloromethane	1.0 ug/L	<0.60 [7]	-	-	-	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<0.30 [7]	-	-	-	-	-
cis-1,3-Dichloropropene	0.20 ug/L	<0.10 [7]	-	-	-	-	-
Dibromochloromethane	0.20 ug/L	<0.20 [7]	-	-	-	-	-
Dibromomethane	1.0 ug/L	<0.40 [7]	-	-	-	-	-
Ethylbenzene	1.0 ug/L	<0.30 [7]	-	-	-	-	-
Iodomethane	3.0 ug/L	<1.0 [7]	-	-	-	-	-
m,p-Xylenes	2.0 ug/L	<0.30 [7]	-	-	-	-	-
Methylene chloride	2.0 ug/L	<1.0 [7]	-	-	-	-	-
o-Xylene	1.0 ug/L	<0.60 [7]	-	-	-	-	-
Styrene	1.0 ug/L	<0.20 [7]	-	-	-	-	-
Tetrachloroethene	1.0 ug/L	<0.60 [7]	-	-	-	-	-
Toluene	1.0 ug/L	<0.20 [7]	-	-	-	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<0.80 [7]	-	-	-	-	-
trans-1,3-Dichloropropene	0.20 ug/L	<0.20 [7]	-	-	-	-	-
trans-1,4-Dichloro-2-butene	1.0 ug/L	<0.50 [7]	-	-	-	-	-
Trichloroethene	1.0 ug/L	<0.30 [7]	-	-	-	-	-
Trichlorofluoromethane	1.0 ug/L	<0.70 [7]	-	-	-	-	-



LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank #1::06S2CC-TB1	Trip Blank #2::06S2CC-TB2	Comp Leachate INF	-	-	-

Volatile Organic Compounds by GCMS (continued)

Vinyl acetate	1.0 ug/L	<0.20 [7]	-	-	-	-	-
Vinyl chloride	1.0 ug/L	<0.50 [7]	-	-	-	-	-
Toluene-d8	132 [surr]	110%	-	-	-	-	-
4-Bromofluorobenzene	135 [surr]	120%	-	-	-	-	-
Dibromofluoromethane	149 [surr]	86%	-	-	-	-	-
1,1,1,2-Tetrachloroethane	1.0 ug/L	-	<0.20 [7]	-	-	-	-
1,1,1-Trichloroethane	1.0 ug/L	-	<0.20 [7]	-	-	-	-
1,1,2,2-Tetrachloroethane	0.20 ug/L	-	<0.20 [7]	-	-	-	-
1,1,2-Trichloroethane	1.0 ug/L	-	<0.40 [7]	-	-	-	-
1,1-Dichloroethane	1.0 ug/L	-	<0.30 [7]	-	-	-	-
1,1-Dichloroethene	1.0 ug/L	-	<0.80 [7]	-	-	-	-
1,1-Dichloropropene	1.0 ug/L	-	<0.20 [7]	-	-	-	-
1,2,3-Trichloropropane	1.0 ug/L	-	<0.30 [7]	-	-	-	-
1,2,4-Trichlorobenzene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
1,2-Dichlorobenzene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
1,2-Dichloroethane	1.0 ug/L	-	<0.30 [7]	-	-	-	-
1,2-Dichloropropane	1.0 ug/L	-	<0.20 [7]	-	-	-	-
1,3-Dichlorobenzene	1.0 ug/L	-	<0.20 [7]	-	-	-	-
1,3-Dichloropropane	1.0 ug/L	-	<0.40 [7]	-	-	-	-
1,4-Dichlorobenzene	1.0 ug/L	-	<0.20 [7]	-	-	-	-
2,2-Dichloropropane	1.0 ug/L	-	<0.20 [7]	-	-	-	-
2-Butanone	5.0 ug/L	-	<1.0 [7]	-	-	-	-
2-Hexanone	5.0 ug/L	-	<2.0 [7]	-	-	-	-
3-Chloropropene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
4-Methyl-2-pentanone	5.0 ug/L	-	<2.0 [7]	-	-	-	-
Acetone	5.0 ug/L	-	<3.0 [7]	-	-	-	-
Acetonitrile	10 ug/L	-	<3.0 [7]	-	-	-	-
Acrolein	10 ug/L	-	<3.0 [7]	-	-	-	-
Acrylonitrile	2.0 ug/L	-	<2.0 [7]	-	-	-	-
Benzene	1.0 ug/L	-	<0.10 [7]	-	-	-	-
Bromochloromethane	1.0 ug/L	-	<0.90 [7]	-	-	-	-
Bromodichloromethane	0.40 ug/L	-	<0.20 [7]	-	-	-	-
Bromoform	1.0 ug/L	-	<0.50 [7]	-	-	-	-
Bromomethane	1.0 ug/L	-	<1.0 [7]	-	-	-	-
Carbon disulfide	5.0 ug/L	-	<0.40 [7]	-	-	-	-
Carbon tetrachloride	1.0 ug/L	-	<0.20 [7]	-	-	-	-
Chlorobenzene	1.0 ug/L	-	<0.10 [7]	-	-	-	-
Chloroethane	1.0 ug/L	-	<0.50 [7]	-	-	-	-
Chloroform	1.0 ug/L	-	<0.20 [7]	-	-	-	-
Chloromethane	1.0 ug/L	-	<0.60 [7]	-	-	-	-
Chloroprene	1.0 ug/L	-	<0.40 [7]	-	-	-	-
cis-1,2-Dichloroethene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
cis-1,3-Dichloropropene	0.20 ug/L	-	<0.10 [7]	-	-	-	-
Dibromochloromethane	0.20 ug/L	-	<0.20 [7]	-	-	-	-



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LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank #1::06S2CC-TB1	Trip Blank #2::06S2CC-TB2	Comp Leachate INF	-	-	-

Volatile Organic Compounds by GCMS (continued)

Dibromomethane	1.0 ug/L	-	<0.40 [7]	-	-	-	-
Dichlorodifluoromethane	1.0 ug/L	-	<0.50 [7]	-	-	-	-
Ethyl Methacrylate	2.0 ug/L	-	<0.50 [7]	-	-	-	-
Ethylbenzene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
Hexachlorobutadiene	1.0 ug/L	-	<0.70 [7]	-	-	-	-
Iodomethane	3.0 ug/L	-	<1.0 [7]	-	-	-	-
Isobutyl alcohol	20 ug/L	-	<4.0 [7]	-	-	-	-
m,p-Xylenes	2.0 ug/L	-	<0.30 [7]	-	-	-	-
Methacrylonitrile	10 ug/L	-	<4.0 [7]	-	-	-	-
Methyl Methacrylate	1.0 ug/L	-	<1.0 [7]	-	-	-	-
Methylene chloride	2.0 ug/L	-	<1.0 [7]	-	-	-	-
Naphthalene	1.0 ug/L	-	<0.40 [7]	-	-	-	-
o-Xylene	1.0 ug/L	-	<0.60 [7]	-	-	-	-
Propionitrile	10 ug/L	-	<2.0 [7]	-	-	-	-
Styrene	1.0 ug/L	-	<0.20 [7]	-	-	-	-
Tetrachloroethene	1.0 ug/L	-	<0.60 [7]	-	-	-	-
Toluene	1.0 ug/L	-	<0.20 [7]	-	-	-	-
trans-1,2-Dichloroethene	1.0 ug/L	-	<0.80 [7]	-	-	-	-
trans-1,3-Dichloropropene	0.20 ug/L	-	<0.20 [7]	-	-	-	-
trans-1,4-Dichloro-2-butene	1.0 ug/L	-	<0.50 [7]	-	-	-	-
Trichloroethene	1.0 ug/L	-	<0.30 [7]	-	-	-	-
Trichlorofluoromethane	1.0 ug/L	-	<0.70 [7]	-	-	-	-
Vinyl acetate	1.0 ug/L	-	<0.20 [7]	-	-	-	-
Vinyl chloride	1.0 ug/L	-	<0.50 [7]	-	-	-	-
Toluene-d8	132 [surr]	-	94%	-	-	-	-
4-Bromofluorobenzene	135 [surr]	-	110%	-	-	-	-
Dibromofluoromethane	149 [surr]	-	75%	-	-	-	-

Semivolatile Organic Compounds by GCMS (Water)

1,2,4,5-Tetrachlorobenzene	10 ug/L	-	-	<1.5 [7]	-	-	-
1,3-Dinitrobenzene	10 ug/L	-	-	<1.0 [7]	-	-	-
1,3,5-Trinitrobenzene	10 ug/L	-	-	<1.2 [7]	-	-	-
1,4-Naphthoquinone	10 ug/L	-	-	<2.3 [7]	-	-	-
1,4-Phenylenediamine	10 ug/L	-	-	<4.0 [7]	-	-	-
1-Naphthylamine	10 ug/L	-	-	<1.2 [7]	-	-	-
2,3,4,6-Tetrachlorophenol	10 ug/L	-	-	<1.5 [7]	-	-	-
2,4,5-Trichlorophenol	10 ug/L	-	-	<1.3 [7]	-	-	-
2,4,6-Trichlorophenol	10 ug/L	-	-	<3.4 [7]	-	-	-
2,4-Dichlorophenol	10 ug/L	-	-	<2.3 [7]	-	-	-
2,4-Dimethylphenol	10 ug/L	-	-	<2.9 [7]	-	-	-
2,4-Dinitrophenol	10 ug/L	-	-	<7.2 [7]	-	-	-
2,4-Dinitrotoluene	10 ug/L	-	-	<1.4 [7]	-	-	-
2,6-Dichlorophenol	10 ug/L	-	-	<2.4 [7]	-	-	-
2,6-Dinitrotoluene	10 ug/L	-	-	<1.5 [7]	-	-	-
2-Acetylaminofluorene	10 ug/L	-	-	<1.9 [7]	-	-	-



LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank	Trip Blank	Comp Leachate	-	-	-
		#1::06S2CC-TB1	#2::06S2CC-TB2	INF			

Semivolatile Organic Compounds by GCMS (continued)

2-Chloronaphthalene	10 ug/L	-	-	<1.2 [7]	-	-	-
2-Chlorophenol	10 ug/L	-	-	<2.6 [7]	-	-	-
2-Methyl-4,6-dinitrophenol	10 ug/L	-	-	<4.0 [7]	-	-	-
2-Methylnaphthalene	10 ug/L	-	-	<1.3 [7]	-	-	-
2-Methylphenol	10 ug/L	-	-	<1.3 [7]	-	-	-
2-Naphthylamine	10 ug/L	-	-	<2.1 [7]	-	-	-
2-Nitroaniline	10 ug/L	-	-	<1.7 [7]	-	-	-
2-Nitrophenol	10 ug/L	-	-	<2.2 [7]	-	-	-
3 & 4-Methylphenol	20 ug/L	-	-	42	-	-	-
3,3'-Dichlorobenzidine	10 ug/L	-	-	<1.7 [7]	-	-	-
3,3'-Dimethylbenzidine	10 ug/L	-	-	<2.5 [7]	-	-	-
3-Methylcholanthrene	10 ug/L	-	-	<1.0 [7]	-	-	-
3-Nitroaniline	10 ug/L	-	-	<1.1 [7]	-	-	-
4-Aminobiphenyl	10 ug/L	-	-	<1.5 [7]	-	-	-
4-Bromophenyl-phenylether	10 ug/L	-	-	<1.3 [7]	-	-	-
4-Chloro-3-methylphenol	10 ug/L	-	-	<2.4 [7]	-	-	-
4-Chloroaniline	10 ug/L	-	-	<1.2 [7]	-	-	-
4-Chlorophenyl-phenylether	10 ug/L	-	-	<1.7 [7]	-	-	-
4-Nitroaniline	10 ug/L	-	-	<2.1 [7]	-	-	-
4-Nitrophenol	10 ug/L	-	-	<2.9 [7]	-	-	-
5-Nitro-o-toluidine	10 ug/L	-	-	<1.5 [7]	-	-	-
7,12-Dimethylbenz(a)anthracene	10 ug/L	-	-	<1.2 [7]	-	-	-
Acenaphthene	10 ug/L	-	-	<1.6 [7]	-	-	-
Acenaphthylene	10 ug/L	-	-	<1.6 [7]	-	-	-
Acetophenone	10 ug/L	-	-	<1.6 [7]	-	-	-
Anthracene	10 ug/L	-	-	<1.3 [7]	-	-	-
Benzo(a)anthracene	10 ug/L	-	-	<1.4 [7]	-	-	-
Benzo(a)pyrene	10 ug/L	-	-	<1.6 [7]	-	-	-
Benzo(b)fluoranthene	10 ug/L	-	-	<1.1 [7]	-	-	-
Benzo(g,h,i)perylene	10 ug/L	-	-	<2.0 [7]	-	-	-
Benzo(k)fluoranthene	10 ug/L	-	-	<1.7 [7]	-	-	-
Benzyl alcohol	10 ug/L	-	-	<1.3 [7]	-	-	-
Bis(2-chloroethoxy)methane	10 ug/L	-	-	<1.3 [7]	-	-	-
Bis(2-chloroethyl)ether	10 ug/L	-	-	<6.8 [7]	-	-	-
Bis(2-chloroisopropyl)ether	10 ug/L	-	-	<4.6 [7]	-	-	-
Bis(2-ethylhexyl)phthalate	10 ug/L	-	-	<1.7 [7]	-	-	-
Butylbenzylphthalate	10 ug/L	-	-	<1.3 [7]	-	-	-
Chlorobenzilate	10 ug/L	-	-	<1.5 [7]	-	-	-
Chrysene	10 ug/L	-	-	<1.7 [7]	-	-	-
Diallate	10 ug/L	-	-	<1.4 [7]	-	-	-
Dibenzo(a,h)anthracene	10 ug/L	-	-	<1.6 [7]	-	-	-
Dibenzofuran	10 ug/L	-	-	<1.6 [7]	-	-	-
Diethylphthalate	10 ug/L	-	-	<1.5 [7]	-	-	-
Dimethoate	10 ug/L	-	-	<2.0 [7]	-	-	-



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LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank	Trip Blank	Comp Leachate	-	-	-
		#1::06S2CC-TB1	#2::06S2CC-TB2	INF			

Semivolatle Organic Compounds by GCMS (continued)

Dimethylphthalate	10 ug/L	-	-	<1.6 [7]	-	-	-
Di-n-butylphthalate	10 ug/L	-	-	<1.5 [7]	-	-	-
Di-n-octylphthalate	10 ug/L	-	-	<1.7 [7]	-	-	-
Diphenylamine	10 ug/L	-	-	<1.6 [7]	-	-	-
Disulfoton	10 ug/L	-	-	<2.3 [7]	-	-	-
Ethyl methanesulfonate	10 ug/L	-	-	<1.4 [7]	-	-	-
Famphur	10 ug/L	-	-	<2.8 [7]	-	-	-
Fluoranthene	10 ug/L	-	-	<1.3 [7]	-	-	-
Fluorene	10 ug/L	-	-	<1.7 [7]	-	-	-
Hexachlorobenzene	10 ug/L	-	-	<1.1 [7]	-	-	-
Hexachlorobutadiene	10 ug/L	-	-	<1.2 [7]	-	-	-
Hexachlorocyclopentadiene	10 ug/L	-	-	<1.2 [7]	-	-	-
Hexachloroethane	10 ug/L	-	-	<1.5 [7]	-	-	-
Hexachloropropene	10 ug/L	-	-	<1.3 [7]	-	-	-
Indeno(1,2,3-cd)pyrene	10 ug/L	-	-	<1.8 [7]	-	-	-
Isodrin	10 ug/L	-	-	<1.2 [7]	-	-	-
Isophorone	10 ug/L	-	-	<1.3 [7]	-	-	-
Isosafrole	10 ug/L	-	-	<1.7 [7]	-	-	-
Kepone	20 ug/L	-	-	<3.4 [7]	-	-	-
Methapyrilene	10 ug/L	-	-	<1.8 [7]	-	-	-
Methyl Methanesulfonate	10 ug/L	-	-	<1.1 [7]	-	-	-
Methyl parathion	10 ug/L	-	-	<1.4 [7]	-	-	-
Nitrobenzene	10 ug/L	-	-	<1.6 [7]	-	-	-
N-Nitrosodiethylamine	10 ug/L	-	-	<1.4 [7]	-	-	-
N-Nitrosodimethylamine	10 ug/L	-	-	<1.4 [7]	-	-	-
N-Nitrosodi-n-butylamine	10 ug/L	-	-	<1.3 [7]	-	-	-
N-Nitroso-di-n-propylamine	10 ug/L	-	-	<1.9 [7]	-	-	-
N-Nitrosodiphenylamine	10 ug/L	-	-	<1.6 [7]	-	-	-
N-Nitrosomethylethylamine	10 ug/L	-	-	<1.2 [7]	-	-	-
N-Nitrosopiperidine	10 ug/L	-	-	<1.2 [7]	-	-	-
N-Nitrosopyrrolidine	10 ug/L	-	-	<2.1 [7]	-	-	-
O,O,O-Triethyl phosphorothioate	10 ug/L	-	-	<1.3 [7]	-	-	-
o-Toluidine	10 ug/L	-	-	<1.4 [7]	-	-	-
Parathion	10 ug/L	-	-	<1.1 [7]	-	-	-
p-Dimethylaminoazobenzene	10 ug/L	-	-	<1.6 [7]	-	-	-
Pentachlorobenzene	10 ug/L	-	-	<1.4 [7]	-	-	-
Pentachloronitrobenzene	10 ug/L	-	-	<1.3 [7]	-	-	-
Phenacetin	10 ug/L	-	-	<5.9 [7]	-	-	-
Phenanthrene	10 ug/L	-	-	<1.4 [7]	-	-	-
Phenol	10 ug/L	-	-	<1.9 [7]	-	-	-
Phorate	10 ug/L	-	-	<1.6 [7]	-	-	-
Pronamide	10 ug/L	-	-	<1.3 [7]	-	-	-
Pyrene	10 ug/L	-	-	<1.3 [7]	-	-	-
Safrole	10 ug/L	-	-	<1.3 [7]	-	-	-



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LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank	Trip Blank	Comp Leachate	-	-	-
		#1::06S2CC-TB1	#2::06S2CC-TB2	INF			

Semivolatile Organic Compounds by GCMS (continued)

Thionazin	10 ug/L	-	-	<1.9 [7]	-	-	-
2-Fluorophenol	114 [surr]	-	-	45%	-	-	-
Phenol-d5	122 [surr]	-	-	13%	-	-	-
Nitrobenzene-d5	131 [surr]	-	-	88%	-	-	-
2-Fluorobiphenyl	131 [surr]	-	-	73%	-	-	-
2,4,6-Tribromophenol	159 [surr]	-	-	77%	-	-	-
Terphenyl-d14	160 [surr]	-	-	72%	-	-	-

Organochlorine Pesticides by GC (Water)

4,4'-DDD	0.050 ug/L	-	-	<0.0020 [7]	-	-	-
4,4'-DDE	0.050 ug/L	-	-	<0.0019 [7]	-	-	-
4,4'-DDT	0.050 ug/L	-	-	<0.0014 [7]	-	-	-
Aldrin	0.050 ug/L	-	-	<0.0071 [7]	-	-	-
alpha-BHC	0.050 ug/L	-	-	<0.0018 [7]	-	-	-
beta-BHC	0.050 ug/L	-	-	<0.0017 [7]	-	-	-
Chlordane (tech)	1.0 ug/L	-	-	<0.031 [7]	-	-	-
Chlordane-alpha	0.050 ug/L	-	-	<0.0017 [7]	-	-	-
Chlordane-gamma	0.050 ug/L	-	-	<0.0019 [7]	-	-	-
delta-BHC	0.050 ug/L	-	-	<0.0014 [7]	-	-	-
Dieldrin	0.050 ug/L	-	-	<0.0012 [7]	-	-	-
Endosulfan I	0.050 ug/L	-	-	<0.0013 [7]	-	-	-
Endosulfan II	0.050 ug/L	-	-	<0.0020 [7]	-	-	-
Endosulfan sulfate	0.050 ug/L	-	-	<0.0025 [7]	-	-	-
Endrin	0.050 ug/L	-	-	<0.0012 [7]	-	-	-
Endrin aldehyde	0.050 ug/L	-	-	<0.0027 [7]	-	-	-
Endrin ketone	0.050 ug/L	-	-	<0.0019 [7]	-	-	-
gamma-BHC	0.050 ug/L	-	-	<0.0034 [7]	-	-	-
Heptachlor	0.050 ug/L	-	-	<0.0021 [7]	-	-	-
Heptachlor epoxide	0.050 ug/L	-	-	<0.0021 [7]	-	-	-
Methoxychlor	0.050 ug/L	-	-	<0.0021 [7]	-	-	-
Toxaphene	1.0 ug/L	-	-	<0.090 [7]	-	-	-
2,4,5,6-TCMX	139 [surr]	-	-	51%	-	-	-
DBC	174 [surr]	-	-	76%	-	-	-

Polychlorinated Biphenyls by GC (Water)

PCB-1016/1242	1.0 ug/L	-	-	<0.030 [7]	-	-	-
PCB-1221	1.0 ug/L	-	-	<0.070 [7]	-	-	-
PCB-1232	1.0 ug/L	-	-	<0.020 [7]	-	-	-
PCB-1248	1.0 ug/L	-	-	<0.020 [7]	-	-	-
PCB-1254	1.0 ug/L	-	-	<0.060 [7]	-	-	-
PCB-1260	1.0 ug/L	-	-	<0.020 [7]	-	-	-
DBC	177 [surr]	-	-	68%	-	-	-

Chlorinated Herbicides by GC (Water)

2,4,5-TP (Silvex)	0.30 ug/L	-	-	<0.046 [7]	-	-	-
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LAB #		A604349-07	A604349-08	A604349-09	-	-	-
MATRIX	Minimum	Water	Water	Ground Water	-	-	-
SAMPLE ID	Reporting Limit	Trip Blank #1::06S2CC-TB1	Trip Blank #2::06S2CC-TB2	Comp Leachate INF	-	-	-

Chlorinated Herbicides by GC (continued)

2,4-D	0.30 ug/L	-	-	<0.090 [7]	-	-	-
Pentachlorophenol	0.30 ug/L	-	-	<0.055 [7]	-	-	-
2,4,5-T	0.30 ug/L	-	-	<0.056 [7]	-	-	-
Dinoseb	0.30 ug/L	-	-	<0.20 [7]	-	-	-
2,4-DCAA	172 [surr]	-	-	130%	-	-	-

Metals by EPA 6000/7000 Series Methods (Water)

Antimony	0.5 ug/L	-	-	4 [2]	-	-	-
Arsenic	1.0 ug/L	-	-	46	-	-	-
Barium	10 ug/L	-	-	35 [2]	-	-	-
Beryllium	0.050 ug/L	-	-	<0.50 [7]	-	-	-
Cadmium	0.50 ug/L	-	-	<1.7 [7]	-	-	-
Chromium	1.0 ug/L	-	-	6.5 [2]	-	-	-
Cobalt	1 ug/L	-	-	15	-	-	-
Copper	0.5 ug/L	-	-	<3 [7]	-	-	-
Iron	10 ug/L	-	-	39400 [1]	-	-	-
Lead	1.0 ug/L	-	-	<2.8 [7]	-	-	-
Mercury	0.20 ug/L	-	-	<0.11 [7]	-	-	-
Nickel	1.0 ug/L	-	-	55	-	-	-
Selenium	1 ug/L	-	-	4 [2]	-	-	-
Silver	0.050 ug/L	-	-	<0.33 [7]	-	-	-
Sodium	0.05 mg/L	-	-	537 [1]	-	-	-
Thallium	0.05 ug/L	-	-	1	-	-	-
Tin	10 ug/L	-	-	<42 [7]	-	-	-
Vanadium	1.0 ug/L	-	-	5.8 [2]	-	-	-
Zinc	10 ug/L	-	-	<100 [7]	-	-	-

Classical Chemistry Parameters (Water)

Total Alkalinity	10 mg/L	-	-	2030 [1]	-	-	-
Ammonia as N	0.02 mg/L	-	-	305 [1]	-	-	-
Bicarbonate as CaCO3	mg/L	-	-	2030 [1]	-	-	-
Chloride	1.00 mg/L	-	-	591 [1]	-	-	-
Cyanide (total)	0.010 mg/L	-	-	0.042	-	-	-
Nitrate as N	0.050 mg/L	-	-	0.398	-	-	-
Sulfide	1 mg/L	-	-	<0.5 [7]	-	-	-
Total Dissolved Solids	10 mg/L	-	-	2370	-	-	-



Special Notes

- [1] D = Data reported from a dilution
- [2] I = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- [3] Q = Analysis performed outside of method - specified holding time.
- [4] QM- = The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- [5] QR- = The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- [6] S-04 = The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- [7] U = Analyte included in the analysis, but not detected



LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8011	Water	NELAC	E83182
8081A Appendix 2	Water	NELAC	E83182
8082 Appendix 2	Water	NELAC	E83182
8151A Appendix 2	Water	NELAC	E83182
8260B Appendix 1	Water	NELAC	E83182
8260B Appendix 2	Water	NELAC	E83182
8270C Appendix 2	Water	NELAC	E83182
Alkalinity 310.2	Water	NELAC	E83182
Ammonia 350.1	Water	NELAC	E83182
Antimony Total EPA 6020	Water	NELAC	E83182
Arsenic Total EPA 6020	Water	NELAC	E83182
Barium Total EPA 6020	Water	NELAC	E83182
Beryllium Total EPA 6020	Water	NELAC	E83182
Cadmium Total EPA 6020	Water	NELAC	E83182
Chloride 300	Water	NELAC	E83182
Chromium Total EPA 6020	Water	NELAC	E83182
Cobalt Total EPA 6020	Water	NELAC	E83182
Copper Total EPA 6020	Water	NELAC	E83182
Cyanide Total 335.2	Water	NELAC	E83182
Iron Total EPA 6020	Water	NELAC	E83182
Lead Total EPA 6020	Water	NELAC	E83182
Mercury Total EPA 7470A	Water	NELAC	E83182
Nickel Total EPA 6020	Water	NELAC	E83182
Nitrate as N 300	Water	NELAC	E83182
Selenium Total EPA 6020	Water	NELAC	E83182
Silver Total EPA 6020	Water	NELAC	E83182
Sodium Total EPA 6020	Water	NELAC	E83182
Sulfide 376.1	Water	NELAC	E83182
TDS 160.1	Water	NELAC	E83182
Thallium Total EPA 6020	Water	NELAC	E83182
Tin Total EPA 6020	Water	NELAC	E83182
Vanadium Total EPA 6020	Water	NELAC	E83182
Zinc Total EPA 6020	Water	NELAC	E83182



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 Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way
 Cary, North Carolina 27513
 Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE		PROJECT NO.		P.O. NUMBER		MATRIX TYPE		REQUIRED ANALYSIS		PAGE / OF /	
Citrus County LF		03860-022-01									
PROJECT LOC. (State)	SAMPLER(S) NAME	PHONE		FAX		SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLIDSEDIMENT NONAQUEOUS LIQUID (oil, solvent, etc.) AIR SLUDGE OTHER		See attached 3rd Quarters EPH See Leachate EPH Instrument List See attached Groundwater EPH AP-1 VOCs AP-2 VOCs		<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge)	
FL	Steve Messick	(352) 377-3821		(352) 377-3166						Date Due: _____	
CLIENT NAME		CLIENT PROJECT MANAGER									
Jones, Edmunds		John Locklear									
CLIENT ADDRESS (CITY, STATE, ZIP)											
730 N.E. Waldo Rd.											
Gainesville, FL 32641											
SAMPLE					PRESERVATIVE					REMARKS	
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION					NUMBER OF CONTAINERS SUBMITTED	
Leachate Effluent	9/22/06	0935	✓		0603CC-LEFF						
Equip Blank LEFF		0935			0603CC-LEFFEQB						
Leach Effluent #1		1018	✓		0652CC-LILS1					Composite	
Leach Effluent #2		1040	✓		0652CC-LILS2					these 2 except VOCs	
Equip Blank #1		1120			0652CC-EQ134						
MW #8		1315	✓		0652CC-6						
Frip Blank #1					0652CC-TB1					QA/QC	
Frip Blank #2					0652CC-TB2						
S. Messick											
9											
10											
11											
12											
13											
14											
SAMPLE KIT PREPARED BY:		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
C. JACKSONVILLE		ORLANDO	UP 9/7/06	11:30	Ava Ponte	9/7/06	11:30	Steve Messick	9/21/06	1000	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
Steve Messick		9/22/06	1400								
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
								TS		9/23/06	11:15
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS					
				YES <input type="checkbox"/> NO <input type="checkbox"/>	A-604349	Samples shipped by Greyhound bus from Gainesville, FL to Orlando, FL. TR-04-03					