



Dept. of Environmental Protection

NOV 27 2006

Southwest District

November 21, 2006

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

RE: Leachate Sampling – Additional sampling November 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 additional sampling of the Leachate Effluent at the Citrus County Landfill, performed on November 1, 2006. This sample was collected to comply with the Department’s October 31, 2006 request to demonstrate that Benzene, Methylene Chloride, and Vinyl Chloride do not exceed Department standards.

The Leachate Effluent reported all three parameters below both the laboratory detection limit and applicable groundwater standards for each parameter. Original laboratory data is attached.

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

Sincerely,

Katherine S. Walz
John D. Locklear *for*
Project Manager

M:\EnvDocs\Citrus County\2006\06q4 leachate\ADDITIONAL SAMPLE\06m11leachate letter.doc

xc: Susan Metcalfe, P.G.

Attachments

730 NE Waldo Rd
Gainesville, FL 32641

352.377.5821 Phone
352-377.3166 Fax
www.jonesedmunds.com

Environmental Conservation Laboratories, Inc.

10775 Central Port Drive

Orlando FL, 32824

Phone: 407.826.5314 FAX: 407.850.6945



www.encolabs.com

Friday, November 10, 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 County Landfill
ENCO Workorder: A605478**

Dear Lynne McDaniel,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, November 2, 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)



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LAB #		A605478-01	A605478-02	-	-	-	-
MATRIX	Minimum	Waste Water	Water	-	-	-	-
SAMPLE ID	Reporting Limit	Leachate Eff::06NOVCC- LEFF	Trip Blank #1::06NOVCC- TB1	-	-	-	-

Volatile Organic Compounds by GCMS (Water)

Benzene	1.0 ug/L	<0.48 [1]	<0.48 [1]	-	-	-	-
Methylene chloride	2.0 ug/L	<1.0 [1]	<1.0 [1]	-	-	-	-
Vinyl chloride	1.0 ug/L	<0.52 [1]	<0.52 [1]	-	-	-	-
Toluene-d8	125 [surr]	120%	120%	-	-	-	-
4-Bromofluorobenzene	125 [surr]	120%	110%	-	-	-	-
Dibromofluoromethane	137 [surr]	110%	100%	-	-	-	-

Field Parameters (Water)

Specific Conductance (EC)	0 umhos/cm	3702	-	-	-	-	-
Dissolved Oxygen	0.00 mg/L	5.20	-	-	-	-	-
pH	0.00 pH Units	8.03	-	-	-	-	-
Oxidation/Reduction Potential	mV	247.4	-	-	-	-	-
Temperature	0.00 °C	24.26	-	-	-	-	-
Turbidity	0.0 NTU	2.28	-	-	-	-	-



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
Volatile Organic Compounds by GCMS - Quality Control										
<i>Batch 6K05003 - EPA 5030B_MS</i>										
Blank (6K05003-BLK1)						Prepared: 11/05/2006 12:30 Analyzed: 11/05/2006 14:00				
1,1,1,2-Tetrachloroethane	0.24 U	1.0	ug/L							
1,1,1-Trichloroethane	0.88 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.20 U	0.20	ug/L							
1,1,2-Trichloroethane	0.44 U	1.0	ug/L							
1,1-Dichloroethane	0.60 U	1.0	ug/L							
1,1-Dichloroethene	0.83 U	1.0	ug/L							
1,2,3-Trichloropropane	0.34 U	1.0	ug/L							
1,2-Dichlorobenzene	0.27 U	1.0	ug/L							
1,2-Dichloroethane	0.94 U	1.0	ug/L							
1,2-Dichloropropane	0.97 U	1.0	ug/L							
1,4-Dichlorobenzene	0.24 U	1.0	ug/L							
2-Butanone	1.0 U	5.0	ug/L							
2-Hexanone	2.1 U	5.0	ug/L							
4-Methyl-2-pentanone	1.6 U	5.0	ug/L							
Acetone	2.6 U	5.0	ug/L							
Acrylonitrile	1.7 U	2.0	ug/L							
Benzene	0.48 U	1.0	ug/L							
Bromochloromethane	0.93 U	1.0	ug/L							
Bromodichloromethane	0.22 U	0.40	ug/L							
Bromoform	0.48 U	1.0	ug/L							
Bromomethane	0.80 U	1.0	ug/L							
Carbon disulfide	0.97 U	5.0	ug/L							
Carbon tetrachloride	0.85 U	1.0	ug/L							
Chlorobenzene	0.21 U	1.0	ug/L							
Chloroethane	0.66 U	1.0	ug/L							
Chloroform	0.89 U	1.0	ug/L							
Chloromethane	0.82 U	1.0	ug/L							
cis-1,2-Dichloroethene	0.75 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Dibromochloromethane	0.20 U	0.20	ug/L							
Dibromomethane	0.42 U	1.0	ug/L							
Ethylbenzene	0.99 U	1.0	ug/L							
Iodomethane	0.81 U	3.0	ug/L							
m,p-Xylenes	0.55 U	2.0	ug/L							
Methylene chloride	1.0 U	2.0	ug/L							
o-Xylene	0.60 U	1.0	ug/L							
Styrene	0.19 U	1.0	ug/L							
Tetrachloroethene	0.65 U	1.0	ug/L							
Toluene	0.25 U	1.0	ug/L							
trans-1,2-Dichloroethene	0.83 U	1.0	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,4-Dichloro-2-butene	0.61 U	1.0	ug/L							
Trichloroethene	0.71 U	1.0	ug/L							
Trichlorofluoromethane	0.70 U	1.0	ug/L							
Vinyl acetate	0.20 U	1.0	ug/L							
Vinyl chloride	0.52 U	1.0	ug/L							



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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sample Notes
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Volatile Organic Compounds by GCMS - Quality Control

Batch 6K05003 - EPA 5030B_MS

Blank (6K05003-BLK1) Continued

Prepared: 11/05/2006 12:30 Analyzed: 11/05/2006 14:00

Surrogate: Toluene-d8	57		ug/L	50.0		114	87.6-125			
Surrogate: 4-Bromofluorobenzene	56		ug/L	50.0		112	57.1-125			
Surrogate: Dibromofluoromethane	50		ug/L	50.0		101	49.8-137			

LCS (6K05003-BS1)

Prepared: 11/05/2006 12:30 Analyzed: 11/05/2006 13:30

1,1-Dichloroethene	15	1.0	ug/L	20.0		74	55.1-177			
Benzene	21	1.0	ug/L	20.0		105	64.9-144			
Chlorobenzene	23	1.0	ug/L	20.0		113	63.5-136			
Toluene	22	1.0	ug/L	20.0		109	68.4-128			
Trichloroethene	22	1.0	ug/L	20.0		110	70.2-128			

Surrogate: Toluene-d8	57		ug/L	50.0		113	87.6-125			
Surrogate: 4-Bromofluorobenzene	52		ug/L	50.0		105	57.1-125			
Surrogate: Dibromofluoromethane	53		ug/L	50.0		105	49.8-137			

Matrix Spike (6K05003-MS1)

Source: A605474-01

Prepared: 11/05/2006 12:30 Analyzed: 11/05/2006 14:29

1,1-Dichloroethene	20	1.0	ug/L	20.0	0.83 U	101	55.1-177			
Benzene	23	1.0	ug/L	20.0	1.8	107	65-143			
Chlorobenzene	22	1.0	ug/L	20.0	0.21 U	110	63.5-136			
Toluene	23	1.0	ug/L	20.0	0.40	112	68.4-128			
Trichloroethene	21	1.0	ug/L	20.0	0.71 U	104	70.2-128			

Surrogate: Toluene-d8	58		ug/L	50.0		116	87.6-125			
Surrogate: 4-Bromofluorobenzene	56		ug/L	50.0		112	57.1-125			
Surrogate: Dibromofluoromethane	53		ug/L	50.0		106	49.8-137			

Matrix Spike Dup (6K05003-MSD1)

Source: A605474-01

Prepared: 11/05/2006 12:30 Analyzed: 11/05/2006 14:59

1,1-Dichloroethene	21	1.0	ug/L	20.0	0.83 U	107	55.1-177	6	15.6	
Benzene	24	1.0	ug/L	20.0	1.8	109	65-143	2	11.8	
Chlorobenzene	24	1.0	ug/L	20.0	0.21 U	120	63.5-136	8	18.9	
Toluene	23	1.0	ug/L	20.0	0.40	115	68.4-128	2	12.4	
Trichloroethene	23	1.0	ug/L	20.0	0.71 U	113	70.2-128	9	13.3	

Surrogate: Toluene-d8	61		ug/L	50.0		122	87.6-125			
Surrogate: 4-Bromofluorobenzene	58		ug/L	50.0		116	57.1-125			
Surrogate: Dibromofluoromethane	53		ug/L	50.0		107	49.8-137			



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Special Notes

[1] U = Analyte included in the analysis, but not detected



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LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Appendix 1	Water	NELAC	E83182



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Gainesville, Florida 32641
Ph. (352) 377-5821 • Fax: (352) 377-3166

1100 Cesery Blvd.
Jacksonville, Florida 32211
Ph. (904) 744-5401 • Fax: (904) 744-6267

3910 S. Washington Avenue, Suite 210
Titusville, Florida 32780
Ph. (321) 269-2950 • Fax: (321) 269-2951

1615
Lab Tracking Number

324 S. Hyde Park Ave., Suite 250
Tampa, Florida 33606
Ph. (813) 258-0703 • Fax: (813) 254-6860

1685 Lee Road, Suite 250
Winter Park, Florida 32789
Ph. (407) 740-7400 • Fax: (407) 647-8080

ENGINEERS | ARCHITECTS | SCIENTISTS

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE <i>Citrus County Landfill</i>		PROJECT NO. <i>03860-022-01</i>		MATRIX TYPE		REQUIRED ANALYSIS				PAGE <i>1</i>	OF <i>1</i>		
SAMPLER(S) NAME <i>Steve Messick</i>		CLIENT NAME <i>Jones, Edmunds & Assoc. Inc.</i>		LABORATORY NAME AND ADDRESS <i>ENCO - Orlando FL.</i>		SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLID/SEDIMENT NON-AQUEOUS LIQUID (Leachate, etc.) AIR SLUDGE OTHER		<i>benzene, vinyl chloride, methyl xylene chloride</i> HCL PRESERVATIVE				<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT REQUIRED Date Due: _____	
STATION		DATE	TIME	GRAB	COMP							FIELD IDENTIFICATION NUMBER	NUMBER OF CONTAINERS SUBMITTED
<i>Leachate EFF.</i>		<i>11/1/06</i>	<i>1030</i>	<input checked="" type="checkbox"/>		<i>06NOVCC-LEFF</i>	<i>2</i>				<i>Leachate Effluent</i>		
<i>TRIP #1 Blank</i>		<i>X</i>	<i>—</i>			<i>06NOVCC-TB1</i>	<i>2</i>				<i>QA/QC</i>		
<i>3</i>													
<i>4</i>													
<i>5</i>													
<i>6</i>													
<i>7</i>													
<i>8</i>													
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<i>10</i>													
<i>11</i>													
<i>12</i>													
<i>13</i>													
<i>14</i>													
INITIAL KITS RECEIVED BY <i>Steve Messick</i>		DATE <i>10/31/06</i>	TIME <i>1600</i>	RELINQUISHED BY: (SIGNATURE) <i>Steve Messick</i>		DATE <i>11/1/06</i>	TIME <i>1300</i>	RECEIVED BY: (SIGNATURE)		DATE	TIME		
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME		
SHIPPING METHOD <i>Greyhound Bus (Priority)</i>		SHIPMENT ORIGIN <i>Gainesville, FL.</i>				SHIPMENT DESTINATION <i>Orlando, FL.</i>							
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>		DATE <i>11/20/06</i>	TIME <i>1000</i>	CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LAB LOG NO. <i>A605478</i>	REMARKS <i>Bus Bill # LW24, 40</i>							