



G WMP 21375
LR JRM
GW 9/24/05



November 14, 2005

Mr. John Morris, P.G.
Florida Department of Environmental Protection - Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RE: Second Semiannual 2005 - Resample
Citrus County Landfill
Permit No. 21375-008-SO/01
Jones Edmunds Project No. 03860-022-01

Dear Mr. Morris:

Following the Second Semiannual 2005 sampling at the Citrus County Landfill, a determination was made to resample MW-1R for Total Dissolved Solids (TDS) and Chloride. The well was sampled on October 26, 2005.

The TDS and Chloride results from the second semiannual 2005 sampling event were considerably higher than historical levels for MW-1R. It was suspected that the bottle used to collect the August 5th sample was contaminated and the attached historical data summary for Chloride and TDS levels in MW-1R support this assumption. Parameter Monitoring Report forms (PMRs) and original laboratory reports are also attached.

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

Sincerely,

John D. Locklear
Project Manager

M:\EnvDocs\Citrus County\2005\05s2r\05s2r letter.doc

cc: Susan Metcalfe, P.G.

Attachments

730 NE Waldo Rd
Gainesville, FL 32641

352.377.5821 Phone
352-377.3166 Fax
www.jonesedmunds.com

OCT 2005
RESAMPLING
AT MW-1R

**PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
FEBRUARY 2000 THROUGH OCTOBER 2005**

Note: This report contains additional filters that are detailed on the final page of this report.

PARAMETER	CHLORIDE	TOTAL DISSOLVED SOLIDS
STANDARD	250 mg/L**	500 mg/L**
UNITS	mg/L	mg/L

Background

MW-1R	02/01/00	4.7	62
MW-1R	08/29/00	9.6	138
MW-1R	03/29/01	4.2	60
MW-1R	10/11/01	3.3	76
MW-1R	01/29/02	10	44
MW-1R	08/08/02	8.8	64
MW-1R	01/23/03	<20	71
MW-1R	08/05/03	6.7	64
MW-1R	02/05/04	3.8	92
MW-1R	07/21/04	4.5	130
MW-1R	01/27/05	4	96 V
MW-1R	08/05/05	31.3	3760
MW-1R	10/26/05	3.8	116.

LEGEND

- * = Primary Drinking Water Standard
- ** = Secondary Drinking Water Standard
- *** = Chapter 62-777 - Groundwater Cleanup Target Level (GCTL)
- (1) = No Standard
- = Not Analyzed

- I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
- J = Estimated value; matrix interferences prevent accurate determination
- J3 = The reported value failed to meet the established quality control criteria for either precision and/or accuracy
- Q = Estimated value; analyte analyzed after acceptable holding time

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #: 165

Well Name: MW-1R

Classification of Ground Water: **GII**

Ground Water Elevation (NGVD): 7.39

Sampling Date/Time: 10/26/05 4:21:00 PM

Report Period: OCTOBER 2005

Well Purged: YES

Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
00094	CONDUCTIVITY (FIELD)	SP	No	EPA 120.1	10/26/05 4:21:00 PM	142	µmhos/cm	
00406	pH (FIELD)	SP	No	EPA 150.1	10/26/05 4:21:00 PM	5.61	S.U.	
70300	TOTAL DISSOLVED SOLIDS	SP	No	EPA 160.1	11/04/05 3:38:00 PM	116.	mg/L	10mg/L
00010	TEMPERATURE (FIELD)	SP	No	EPA 170.1	10/26/05 4:21:00 PM	24.17	Deg. C	
82078	TURBIDITY (FIELD)	SP	No	EPA 180.1	10/26/05 4:21:00 PM	1.29	NTU	
00940	CHLORIDE	SP	No	EPA 300	10/31/05 9:39:00 PM	3.8	mg/L	.05mg/L
00299	DISSOLVED OXYGEN (FIELD)	SP	No	EPA 360.1	10/26/05 4:21:00 PM	4.1	mg/L	

Citrus County Central Landfill Parameter Monitoring Report

PART III Analytical Results

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: EQUBLK R (05S2CC1REQB(RES))

Classification of Ground Water:

Ground Water Elevation (NGVD):

Sampling Date/Time: 10/26/05 2:40:00 PM

Report Period: OCTOBER 2005

Well Purged:

- Well Type: Background
 Intermediate
 Compliance
 Other
 Detection

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
70300	TOTAL DISSOLVED SOLIDS	SP	No	EPA 160.1	11/04/05 3:38:00 PM	16.0	mg/L	10mg/L
00940	CHLORIDE	SP	No	EPA 300	10/31/05 9:21:00 PM	1.6	mg/L	.05mg/L

Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando, Florida 32824-7009
407 / 826-5314
Fax 407 / 850-6945
www.encolabs.com



DHRS Certification No. E83182

CLIENT : Jones Edmunds & Associates, Inc. **REPORT # :** ORL39513
ADDRESS: 730 N.E. Waldo Road **DATE SUBMITTED:** October 28, 2005
 Bldg. A **DATE REPORTED :** November 9, 2005
 Gainesville, FL 32641

ATTENTION: Tim Cully

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

REFERENCE: CITRUS CO.

03860-018-01

10/26/05

ORL39513-1	: LEACH EFF (05Q4CCLE)	@ 13:40
ORL39513-2	: EQB#1 (LEACH) (05Q4CCEQBLEACH)	@ 13:55
ORL39513-3	: EQB#2 (GW) (05S2CC1REQB (RES))	@ 14:40
ORL39513-4	: MW-1-R (05S2CC1R (RES))	@ 16:21
ORL39513-5	: TRIP BLANK (05Q4CCTB)	

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

Note: Data within this document has been reported to the laboratory Method Detection Limit (MDL). Where positive results are obtained at levels below the lowest calibration standard, an appropriate qualifier has been assigned.

PROJECT MANAGER



Kelly Samples

ENCO LABORATORIES

REPORT # : ORL39513
DATE REPORTED : NOVEMBER 08, 2005
REFERENCE : 03860-018-01
PROJECT NAME : CITRUS CO LF

RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
MW-1-R	SPEC COND-FIELD	142	umhos/cm	EPA 120.1
MW-1-R	PH-FIELD	5.61	S.U.	EPA 150.1
MW-1-R	TOTAL DIS. SOLIDS	116.	mg/L	EPA 160.1
MW-1-R	TEMP-FIELD	24.17	Deg. C	EPA 170.1
MW-1-R	TURBIDITY-FIELD	1.29	NTU	EPA 180.1
MW-1-R	CHLORIDE	3.8	mg/L	EPA 300
MW-1-R	DISSOLVED OXYGEN	4.1	mg/L	EPA 360.1

ENCO LABORATORIES

REPORT # : ORL39513
DATE REPORTED : NOVEMBER 08, 2005
REFERENCE : 03860-018-01
PROJECT NAME : CITRUS CO LF

RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
EQB#2 (GW)	TOTAL DIS. SOLIDS	16.0	mg/L	EPA 160.1
EQB#2 (GW)	CHLORIDE	1.6	mg/L	EPA 300

ENCO LABORATORIES

REPORT # : ORL39513
 DATE REPORTED : NOVEMBER 08, 2005
 REFERENCE : 03860-018-01
 PROJECT NAME : CITRUS CO LF

RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
TRIP BLANK	DIBROMOCHLOROPROPANE	<0.002	ug/L	EPA 8011
TRIP BLANK	ETHYLENE DIBROMIDE	<0.003	ug/L	EPA 8011
TRIP BLANK	1,2-DICHLOROBENZENE	<0.3	ug/L	EPA 8260
TRIP BLANK	1,3-DICHLOROBENZENE	<0.2	ug/L	EPA 8260
TRIP BLANK	1,4-DICHLOROBENZENE	<0.2	ug/L	EPA 8260
TRIP BLANK	BENZENE	<0.1	ug/L	EPA 8260
TRIP BLANK	CHLOROBENZENE	<0.1	ug/L	EPA 8260
TRIP BLANK	ETHYLBENZENE	<0.3	ug/L	EPA 8260
TRIP BLANK	M-XYLENE & P-XYLENE	<0.3	ug/L	EPA 8260
TRIP BLANK	METHYL TERT-BUTYL ETHER	<0.4	ug/L	EPA 8260
TRIP BLANK	O-XYLENE	<0.6	ug/L	EPA 8260
TRIP BLANK	TOLUENE	0.6 I	ug/L	EPA 8260

ENCO LABORATORIES

REPORT # : ORL39513
 DATE REPORTED: November 9, 2005
 REFERENCE : CITRUS CO.
 PROJECT NAME : 03860-018-01

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RESULTS OF ANALYSIS

EPA METHOD 8260 -
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	0.4 U	ug/L
Benzene	0.1 U	ug/L
Toluene	0.2 U	ug/L
Chlorobenzene	0.1 U	ug/L
Ethylbenzene	0.3 U	ug/L
m-Xylene & p-Xylene	0.3 U	ug/L
o-Xylene	0.6 U	ug/L
1,2-Dichlorobenzene	0.3 U	ug/L
1,3-Dichlorobenzene	0.2 U	ug/L
1,4-Dichlorobenzene	0.2 U	ug/L

Surrogate:

	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	80	60-135
Dibromofluoromethane	74	52-149
D8-Toluene	78	70-132
Date Analyzed	10/31/05 12:18	

EPA METHOD 8011 -
EDB & DBCP by GC/ECD

	<u>LAB BLANK</u>	<u>Units</u>
Ethylene Dibromide	0.003 U	ug/L
Dibromochloropropane	0.002 U	ug/L
Date Prepared	11/05/05	
Date Analyzed	11/05/05 19:20	

TOTAL METALS

METHOD

LAB BLANK

Units

Sodium	273.1	0.010 U	mg/L
Date Analyzed		10/31/05	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL39513
DATE REPORTED: November 9, 2005
REFERENCE : CITRUS CO.
PROJECT NAME : 03860-018-01

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RESULTS OF ANALYSIS

EPA METHOD 300 -
Anions by IC

Chloride
Date Analyzed

LAB BLANK

0.050 U
10/31/05 20:07

Units

mg/L

MISCELLANEOUS

METHOD

Total Dis. Solids
Date Prepared
Date Analyzed

160.1

LAB BLANK

10.0 U
11/02/05 16:55
11/04/05 15:38

Units

mg/L

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES

REPORT # : ORL39513
 DATE REPORTED: November 9, 2005
 REFERENCE : CITRUS CO.
 PROJECT NAME : 03860-018-01

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RESULTS OF ANALYSIS

EPA METHOD 8260 -
VOLATILE ORGANICS

	<u>LAB BLANK</u>	<u>Units</u>
Methyl tert-butyl ether	0.4 U	ug/L
Benzene	0.1 U	ug/L
Toluene	0.2 U	ug/L
Chlorobenzene	0.1 U	ug/L
Ethylbenzene	0.3 U	ug/L
m-Xylene & p-Xylene	0.6 I	ug/L
o-Xylene	0.6 U	ug/L
1,2-Dichlorobenzene	0.3 U	ug/L
1,3-Dichlorobenzene	0.2 U	ug/L
1,4-Dichlorobenzene	0.2 U	ug/L
<u>Surrogate:</u>	<u>% RECOV</u>	<u>LIMITS</u>
Bromofluorobenzene	98	60-135
Dibromofluoromethane	63	52-149
D8-Toluene	77	70-132
Date Analyzed	11/01/05 12:47	

U = Compound was analyzed for but not detected to the level shown.
 I = Analyte detected; value is between the Method Detection Level (MDL)
 and the Method Quantitation Level (MQL).

ENCO LABORATORIES

REPORT # : ORL39513
DATE REPORTED: November 9, 2005
REFERENCE : CITRUS CO.
PROJECT NAME : 03860-018-01

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LABORATORY CERTIFICATIONS

Laboratory Certification: NELAC:E83182

All analyses reported with this project were analyzed by the facility indicated unless identified below.

ENCO LABORATORIES

REPORT # : ORL39513
 DATE REPORTED: November 9, 2005
 REFERENCE : CITRUS CO.
 PROJECT NAME : 03860-018-01

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QUALITY CONTROL DATA

<u>Parameter</u>	<u>% RECOVERY LCS/MS/MSD</u>	<u>LCS LIMITS</u>	<u>MS/MSD LIMITS</u>	<u>RPD MS/MSD</u>	<u>RPD LIMITS</u>
<u>EPA Method 8260</u>					
1,1-Dichloroethene	80/ 77/ 82	49-156	36-185	6	34
Benzene	82/ 81/ 79	64-132	65-143	2	25
Trichloroethene	88/ 92/ 85	66-130	51-152	8	28
Toluene	83/ 82/ 78	58-132	62-144	5	24
Chlorobenzene	74/ 75/ 69	68-135	64-140	8	23
<u>EPA Method 8260</u>					
1,1-Dichloroethene	66/ 71/ 70	49-156	36-185	1	34
Benzene	83/ 84/ 84	64-132	65-143	<1	25
Trichloroethene	85/ 89/ 88	66-130	51-152	1	28
Toluene	103/104/103	58-132	62-144	<1	24
Chlorobenzene	92/ 97/ 94	68-135	64-140	3	23
<u>EPA Method 8011</u>					
Ethylene Dibromide	100/104/104	53-154	57-130	<1	18
Dibromochloropropane	68/100/ 92	38-163	60-130	8	20
<u>TOTAL METALS</u>					
Sodium, 273.1	89/100/102	84-111	63-133	2	15
<u>EPA Method 300</u>					
Chloride	94/ 96/ 92	90-110	51-149	4	26
<u>MISCELLANEOUS</u>					
Total Dis. Solids, 160.1	104/ NA/ NA	86-118	NA	NA	NA

< = Less Than
 MS = Matrix Spike
 MSD = Matrix Spike Duplicate
 NA = Not applicable
 LCS = Laboratory Control Standard
 RPD = Relative Percent Difference



ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
 Jacksonville, Florida 32216-6069
 Ph. (904) 296-3007 • Fax (904) 296-6210

10775 Central Port Drive
 Orlando, Florida 32824
 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 Citrus Co. Landfill		PROJECT NO. 03860-018-01		P.O. NUMBER _____		MATRIX TYPE		REQUIRED ANALYSIS		PAGE <u>1</u> OF <u>1</u>			
PROJECT LOC. (State) FLA	SAMPLER(S) NAME E SWANEY			PHONE 377 5821	FAX _____								
CLIENT NAME Jones + Edmunds				CLIENT PROJECT MANAGER T Cully									
CLIENT ADDRESS (CITY, STATE, ZIP) 730 NE WACO RD. GAINESVILLE FL 32641													
STATION		DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION		PRESERVATIVE		REMARKS			
1 Leachate Effluent		10-26-05	1340	X		05Q4CCLE							
2 FAB#1 (Leach)		↓	1355	X		05Q4CCLEQB LQA4							
3 FAB#2 (LW)		↓	1440	X		05S2CC1REQB (RES)							
4 MU-1-R		↓	1621	X		05S2CC1R (RES)							
5 TRIP BLANK		↓	—	—		05Q4CCTB							
6													
7													
8													
9													
10													
11													
12													
13													
14													
SAMPLE KIT PREPARED BY: <input type="checkbox"/> JACKSONVILLE <input checked="" type="checkbox"/> ORLANDO UP		DATE 10/5/05	TIME 15:20	RELINQUISHED BY: (SIGNATURE) Lusi Ponte				DATE 10/5/05	TIME 15:20	RECEIVED BY: (SIGNATURE) [Signature]		DATE 10/26/05	TIME 1100
RELINQUISHED BY: (SIGNATURE) [Signature]		DATE 10/26/05	TIME 1730	RECEIVED BY: (SIGNATURE)				DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
RECEIVED FOR LABORATORY BY: (SIGNATURE) K Casey		DATE 10/28/05	TIME 10:50	CUSTODY INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ENCO LOG NO. ORL39513		REMARKS greyhound Ocala => ORLANDO						