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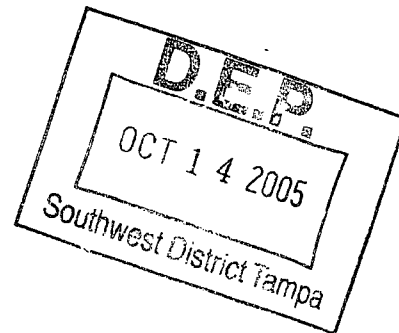
**CITRUS COUNTY CENTRAL LANDFILL**

**SECOND SEMIANNUAL 2005**

**DEP PERMIT NO. 21375-008-SO/01**

**DEP Due Date: ~~October~~ 15, 2005/6**

*JANUARY*



**Prepared by:**

**JONES, EDMUNDS AND ASSOCIATES, INC.**

**730 N.E. Waldo Road**

**Gainesville, Florida 32641-5699**

**Certificate of Authorization # 1841**

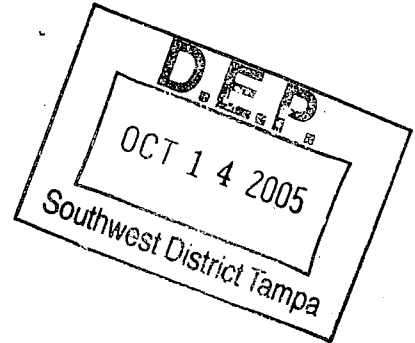
**October 2005**

*John S. Catches*  
John S. Catches, P.G.  
Florida License No. 2203  
10/11/05

# JONES EDMUNDS

October 13, 2005

Mr. John Morris, P.G.  
Florida Department of Environmental Protection – Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33169



RE: Semiannual Groundwater Monitoring Report – Second Semiannual 2005  
Citrus County Landfill  
Permit No. 21375-008-SO/01  
Jones Edmunds Project No. 03860-018-01-4000

Dear Mr. Morris:

This report presents data from the Second Semiannual 2005 sampling event at the Citrus County Landfill, performed on August 2, 3, 4, and 5, 2005.

All groundwater monitoring wells were sampled during this event and analyzed for the semiannual parameters. Leachate Influent and Effluent were collected on August 3<sup>rd</sup> and were analyzed for the quarterly and annual parameters as required by permit. Additionally, the annual sludge sample was collected; results from the sludge analysis can be found in Attachments 4 and 5.

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: Chloride and Total Dissolved Solid (TDS) levels in MW-1R are higher than historical levels. These unusually high levels are believed to be a result of an integrity breach in sample container quality for the following reasons:

- Only Chloride and TDS were analyzed from the unpreserved sample container.
- Field Conductivity readings were consistent with historical levels, however, Conductivity measured by the laboratory from the unpreserved sample container was higher by a factor of 1000.
- Sodium levels in MW-1R are consistent with historical values and typically, Sodium and Chloride values exhibit similar trends.

A limited resample of MW-1R will be conducted along with the Fourth Quarter Leachate sample tentatively scheduled to be collected on October 26, 2005. The results of that resample event will be forwarded under separate cover. Continued semiannual monitoring is recommended at this time.

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

Sincerely,

A handwritten signature in black ink that reads "John D. Locklear". Below the signature is the name "John D. Locklear" printed in a standard font.

John D. Locklear  
Project Manager

xc: Susan Metcalfe, P.G.

M:\EnvDocs\Citrus County\2005\05S2\05s2Let.doc

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

730 NE Waldo Rd  
Gainesville, FL 32641

352.377.5821 Phone  
352-377.3166 Fax  
www.jonesedmunds.com

**ATTACHMENT 5**

**ORIGINAL LABORATORY DATA**

## Citrus County Central Landfill Parameter Monitoring Report

**PART III Analytical Results**

**Sampling Date/Time:** 08/03/05 9:50:00 AM

**Facility GMS #:** SWD/09/39859

**Report Period:** SECOND SEMIANNUAL 2005

**Test Site ID #:**

**Well Purged:**

**Well Name:** SLUDGE

**Well Type:**  Background  
 Intermediate  
 Compliance  
 Other  
 Detection

**Classification of Ground Water:**

**Ground Water Elevation (NGVD):**

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE/TIME	ANALYSIS RESULT *	UNITS	DETECTION LIMIT/UNITS
00094	CONDUCTIVITY (FIELD)	E	No	EPA 120.1	08/03/05 9:50:00 AM	3233	µmhos/cm	
01002	ARSENIC	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	43.1	µg/L	10µg/L
01007	BARIUM	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	110	µg/L	1µg/L
01028	CADMIUM	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	<2.5	µg/L	2.5µg/L
01034	CHROMIUM	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	<10.	µg/L	10µg/L
01051	LEAD	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	<10.	µg/L	10µg/L
01147	SELENIUM	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	<10.	µg/L	10µg/L
01077	SILVER	E	No	EPA 1311/6010	08/11/05 1:30:00 PM	<10.	µg/L	10µg/L
71900	MERCURY	E	No	EPA 1311/7470	08/15/05 2:49:00 PM	<0.070	µg/L	0.07µg/L
39350	CHLORDANE	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<1.0	µg/L	1µg/L
39390	ENDRIN	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<0.045	µg/L	.045µg/L
39340	GAMMA-BHC (LINDANE)	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<0.15	µg/L	.15µg/L
39410	HEPTACHLOR	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<0.10	µg/L	.1µg/L
39420	HEPTACHLOR EPOXIDE	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<0.050	µg/L	.05µg/L
39480	METHOXYCHLOR	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<0.10	µg/L	.1µg/L
39400	TOXAPHENE	E	No	EPA 1311/8081	08/15/05 1:08:00 AM	<4.5	µg/L	4.5µg/L
81297	PCB 1016/1242	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<1.5	µg/L	1.5µg/L
39488	PCB-1221	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<3.5	µg/L	3.5µg/L
39492	PCB-1232	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<1.0	µg/L	1µg/L
39500	PCB-1248	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<1.0	µg/L	1µg/L
39504	PCB-1254	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<3.0	µg/L	3µg/L
39508	PCB-1260	E	No	EPA 1311/8082	08/15/05 1:08:00 AM	<1.0	µg/L	1µg/L
39730	2,4-D	E	No	EPA 1311/8151	08/17/05 1:06:00 AM	<0.2	µg/L	.2µg/L
39760	SILVEX (2,4,5-TP)	E	No	EPA 1311/8151	08/17/05 1:06:00 AM	<0.2	µg/L	.2µg/L
34501	1,1-DICHLOROETHENE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<80.	µg/L	80µg/L
34531	1,2-DICHLOROETHANE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<30.	µg/L	30µg/L
78124	BENZENE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<10.	µg/L	10µg/L
32102	CARBON TETRACHLORIDE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<20.	µg/L	20µg/L
34301	CHLOROBENZENE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<10.	µg/L	10µg/L
32106	CHLOROFORM	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<20.	µg/L	20µg/L
81595	METHYL ETHYL KETONE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<100	µg/L	100µg/L
34475	TETRACHLOROETHENE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<60.	µg/L	60µg/L
39180	TRICHLOROETHENE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<30.	µg/L	30µg/L
39175	VINYL CHLORIDE	E	No	EPA 1311/8260	08/11/05 9:45:00 PM	<50.	µg/L	50µg/L
34571	1,4-DICHLOROBENZENE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
78397	2,4,5-TRICHLOROPHENOL	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
34621	2,4,6-TRICHLOROPHENOL	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<15.	µg/L	15µg/L
34611	2,4-DINITROTOLUENE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
39700	HEXACHLOROBENZENE (HCB)	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
34391	HEXACHLOROBUTADIENE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
34396	HEXACHLOROETHANE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
34447	NITROBENZENE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<10.	µg/L	10µg/L
39032	PENTACHLOROPHENOL	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<10.	µg/L	10µg/L
77045	PYRIDINE	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<5.	µg/L	5µg/L
79778	TOTAL CRESOL	E	No	EPA 1311/8270	08/18/05 2:47:00 PM	<15.	µg/L	15µg/L

\* Attach Laboratory Reports

## Citrus County Central Landfill Parameter Monitoring Report

**PART III Analytical Results**

Facility GMS #: SWD/09/39859

Test Site ID #:

Well Name: SLUDGE

Classification of Ground Water:

Ground Water Elevation (NGVD):

Sampling Date/Time: 08/03/05 9:50:00 AM

Report Period: SECOND SEMIANNUAL 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
00406	pH (FIELD)	E	No	EPA 150.1	08/03/05 9:50:00 AM	5.80	S.U.	
00010	TEMPERATURE (FIELD)	E	No	EPA 170.1	08/03/05 9:50:00 AM	30.9	Deg. C	
82078	TURBIDITY (FIELD)	E	No	EPA 180.1	08/03/05 9:50:00 AM	>1000	NTU	
00299	DISSOLVED OXYGEN (FIELD)	E	No	EPA 360.1	08/03/05 9:50:00 AM	7.11	mg/L	
70318	PERCENT SOLIDS	E	No	SM 2540G	08/06/05 9:53:00 AM	4.9	%	.01%

ENCO LABORATORIES

REPORT # : ORL38228  
 DATE REPORTED : AUGUST 22, 2005  
 REFERENCE : 03860-018-01  
 PROJECT NAME :

RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
INFLUENT	M-DINITROBENZENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	METHAPYRILENE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	METHYL METHANESULFONATE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	METHYL PARATHION	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSODI-N-BUTYLAMINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSODI-N-PROPYLAMINE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSODIETHYLAMINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSODIMETHYLAMINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSODIPHENYLAMINE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSOMETHYLETHYLAMINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSOPIPERIDINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	N-NITROSOPYRROLIDINE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	NAPHTHALENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	NITROBENZENE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	PHOSPHOROTHIOATE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	O-TOLUIDINE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	P-(DIMETHYLAMINO)AZOBENZENE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	P-PHENYLENEDIAMINE	<4.	ug/L	EPA APPENDIX II,8270
INFLUENT	PARATHION	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	PENTACHLOROBENZENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	PENTACHLORONITROBENZENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	PENTACHLOROPHENOL	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	PHENACETIN	<6.	ug/L	EPA APPENDIX II,8270
INFLUENT	PHENANTHRENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	PHENOL	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	PHORATE	<2.	ug/L	EPA APPENDIX II,8270
INFLUENT	PRONAMIDE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	PYRENE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	SAFROLE	<1.	ug/L	EPA APPENDIX II,8270
INFLUENT	THIONAZIN	<2.	ug/L	EPA APPENDIX II,8270
WASTE SLUDGE	SPEC COND-FIELD	3233	umhos/cm	EPA 120.1

## ENCO LABORATORIES

REPORT #	ORL38228
DATE REPORTED	AUGUST 22, 2005
REFERENCE	03860-018-01
PROJECT NAME	

## RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
WASTE SLUDGE	TCLP ARSENIC	43.1	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP BARIUM	110	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP CADMIUM	<2.5	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP CHROMIUM	<10.	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP LEAD	<10.	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP SELENIUM	<10.	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP SILVER	<10.	ug/L	EPA 1311/6010
WASTE SLUDGE	TCLP MERCURY	<0.070	ug/L	EPA 1311/7470
WASTE SLUDGE	CHLORDANE (TECH)	<1.0	ug/L	EPA 1311/8081
WASTE SLUDGE	ENDRIN	<0.045	ug/L	EPA 1311/8081
WASTE SLUDGE	GAMMA-BHC (LINDANE)	<0.15	ug/L	EPA 1311/8081
WASTE SLUDGE	HEPTACHLOR	<0.10	ug/L	EPA 1311/8081
WASTE SLUDGE	HEPTACHLOR EPOXIDE	<0.050	ug/L	EPA 1311/8081
WASTE SLUDGE	METHOXYCHLOR	<0.10	ug/L	EPA 1311/8081
WASTE SLUDGE	TOXAPHENE	<4.5	ug/L	EPA 1311/8081
WASTE SLUDGE	PCB-1016/1242	<1.5	ug/L	EPA 1311/8082
WASTE SLUDGE	PCB-1221	<3.5	ug/L	EPA 1311/8082
WASTE SLUDGE	PCB-1232	<1.0	ug/L	EPA 1311/8082
WASTE SLUDGE	PCB-1248	<1.0	ug/L	EPA 1311/8082
WASTE SLUDGE	PCB-1254	<3.0	ug/L	EPA 1311/8082
WASTE SLUDGE	PCB-1260	<1.0	ug/L	EPA 1311/8082
WASTE SLUDGE	2,4,5-TP (SILVEX)	<0.2	ug/L	EPA 1311/8151
WASTE SLUDGE	2,4-D	<0.2	ug/L	EPA 1311/8151
WASTE SLUDGE	1,1-DICHLOROETHENE	<80.	ug/L	EPA 1311/8260
WASTE SLUDGE	1,2-DICHLOROETHANE	<30.	ug/L	EPA 1311/8260
WASTE SLUDGE	2-BUTANONE	<100	ug/L	EPA 1311/8260
WASTE SLUDGE	BENZENE	<10.	ug/L	EPA 1311/8260
WASTE SLUDGE	CARBON TETRACHLORIDE	<20.	ug/L	EPA 1311/8260
WASTE SLUDGE	CHLOROBENZENE	<10.	ug/L	EPA 1311/8260
WASTE SLUDGE	CHLOROFORM	<20.	ug/L	EPA 1311/8260
WASTE SLUDGE	TETRACHLOROETHENE	<60.	ug/L	EPA 1311/8260

## ENCO LABORATORIES

REPORT #	ORL38228
DATE REPORTED	AUGUST 22, 2005
REFERENCE	03860-018-01
PROJECT NAME	

## RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
WASTE SLUDGE	TRICHLOROETHENE	<30.	ug/L	EPA 1311/8260
WASTE SLUDGE	VINYL CHLORIDE	<50.	ug/L	EPA 1311/8260
WASTE SLUDGE	1,4-DICHLOROBENZENE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	2,4,5-TRICHLOROPHENOL	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	2,4,6-TRICHLOROPHENOL	<15.	ug/L	EPA 1311/8270
WASTE SLUDGE	2,4-DINITROTOLUENE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	HEXACHLOROBENZENE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	HEXACHLOROBUTADIENE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	HEXACHLOROETHANE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	NITROBENZENE	<10.	ug/L	EPA 1311/8270
WASTE SLUDGE	PENTACHLOROPHENOL	<10.	ug/L	EPA 1311/8270
WASTE SLUDGE	PYRIDINE	<5.	ug/L	EPA 1311/8270
WASTE SLUDGE	TOTAL CRESOL	<15.	ug/L	EPA 1311/8270
WASTE SLUDGE	PH-FIELD	5.8	S.U.	EPA 150.1
WASTE SLUDGE	TEMP-FIELD	30.9	Deg. C	EPA 170.1
WASTE SLUDGE	TURBIDITY-FIELD	>1000	NTU	EPA 180.1
WASTE SLUDGE	DISSOLVED OXYGEN	7.11	mg/L	EPA 360.1
WASTE SLUDGE	PH	5.7 Q	S.U.	EPA 9040
WASTE SLUDGE	PERCENT SOLIDS	4.9	%	SM 2540G
EFFLUENT	SPEC COND-FIELD	3464	umhos/cm	EPA 120.1
EFFLUENT	PH-FIELD	7.73	S.U.	EPA 150.1
EFFLUENT	TOTAL DIS. SOLIDS	1930	mg/L	EPA 160.1
EFFLUENT	TEMP-FIELD	30.1	Deg. C	EPA 170.1
EFFLUENT	TURBIDITY-FIELD	3.45	NTU	EPA 180.1
EFFLUENT	ARSENIC	19.	ug/L	EPA 6010
EFFLUENT	BARIIUM	36.	ug/L	EPA 6010
EFFLUENT	BERYLLIUM	<0.70	ug/L	EPA 6010
EFFLUENT	CADMIUM	<0.50	ug/L	EPA 6010
EFFLUENT	CHROMIUM	<2.0	ug/L	EPA 6010
EFFLUENT	COBALT	7.9 I	ug/L	EPA 6010
EFFLUENT	COPPER	2.7 I	ug/L	EPA 6010



ENCO LABORATORIES

REPORT # : ORL38228  
 DATE REPORTED : AUGUST 22, 2005  
 REFERENCE : 03860-018-01  
 PROJECT NAME :

RESULTS OF ANALYSIS

STATION NAME	PARAMETER	RESULT	UNITS	METHOD
EFFLUENT	IRON	<20.	ug/L	EPA 6010
EFFLUENT	LEAD	5.7 I	ug/L	EPA 6010
EFFLUENT	NICKEL	61.	ug/L	EPA 6010
EFFLUENT	SELENIUM	7.1 I	ug/L	EPA 6010
EFFLUENT	SILVER	<2.0	ug/L	EPA 6010
EFFLUENT	SODIUM	470	mg/L	EPA 6010
EFFLUENT	TIN	<2.0	ug/L	EPA 6010
EFFLUENT	VANADIUM	2.6 I	ug/L	EPA 6010
EFFLUENT	ZINC	42.	ug/L	EPA 6010
EFFLUENT	CHLORIDE	905.	mg/L	EPA 300
EFFLUENT	CYANIDE, TOTAL	0.0083 I	mg/L	EPA 335.2
EFFLUENT	DISSOLVED OXYGEN	1.99	mg/L	EPA 360.1
EFFLUENT	SULFIDE, TOTAL	<1.0	mg/L	EPA 376.1
EFFLUENT	ANTIMONY	<0.60	ug/L	EPA 7041
EFFLUENT	MERCURY	<0.070	ug/L	EPA 7470
EFFLUENT	THALLIUM	<0.70	ug/L	EPA 7841
EFFLUENT	DIBROMOCHLOROPROPANE	<0.002	ug/L	EPA 8011
EFFLUENT	ETHYLENE DIBROMIDE	<0.03	ug/L	EPA 8011
EFFLUENT	4,4'-DDD	<0.0090	ug/L	EPA 8081
EFFLUENT	4,4'-DDE	<0.010	ug/L	EPA 8081
EFFLUENT	4,4'-DDT	<0.010	ug/L	EPA 8081
EFFLUENT	ALDRIN	<0.030	ug/L	EPA 8081
EFFLUENT	ALPHA-BHC	<0.010	ug/L	EPA 8081
EFFLUENT	BETA-BHC	<0.020	ug/L	EPA 8081
EFFLUENT	CHLORDANE (TECH)	<0.20	ug/L	EPA 8081
EFFLUENT	CHLORDANE ALPHA	<0.010	ug/L	EPA 8081
EFFLUENT	CHLORDANE GAMMA	<0.010	ug/L	EPA 8081
EFFLUENT	DELTA-BHC	<0.010	ug/L	EPA 8081
EFFLUENT	DIELDRIN	<0.010	ug/L	EPA 8081
EFFLUENT	ENDOSULFAN I	<0.010	ug/L	EPA 8081
EFFLUENT	ENDOSULFAN II	<0.010	ug/L	EPA 8081



## ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF # P26290

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		PROJECT NO.	P.O. NUMBER	MATRIX TYPE										REQUIRED ANALYSIS					PAGE 1	OF 1		
Citrus County Landfill		03860-011-01		SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLID/SEDIMENT NONAQUEOUS LIQUID (oil, solvent, etc.) AIR SLUDGE OTHER										SEE EFFLUENT PARAMETER LIST SEE WASTE SLUDGE LIST SEE EFFLUENT PARAMETER LIST SEE GROUND WATER LIST AP II VOCs AP I VOCs Total Trihalomethanes					<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY  <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge)		Date Due: _____	
PROJECT LOC. (State)	SAMPLE(S) NAME	PHONE	FAX																			
FL.	Steve Massick	(352) 377-5821		Jones Edmunds & Assoc.		Tim Cully		730 N.E. WALDO RD. Gainesville, FL. 32641														
SAMPLE															PRESERVATIVE							
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION										NUMBER OF CONTAINERS SUBMITTED					REMARKS		
LEACHATE WASTEFLUENT	8-3-05	0940	✓		0552CC6Z															Cyanide pH = 9 Metals/Sodium pH = 5		
Waste Sludge Leachate Effluent EQUIP. BLANK#2		0950	✓		0552CCWS																	
		1005	✓		0552CCLE																	
		1050			0552CCER2L															New Lab bottle Rinse w/ Dist. Water		
5 MW-3		1217	✓		0552CC3																	
6 MW-6		1423	✓		0552CC6																	
EQUIP. BLANK#3		1435			0552CCER3															New Lab bottle Rinse w/ DIST. WATER		
TRIP BLANK#2					0552CCTB2															QA/QC		
TRIP BLANK#3					0552CCTB3															QA/QC		
10																						
11																						
12																						
13																						
14																						
SAMPLE KIT PREPARED BY:					DATE	TIME	RELINQUISHED BY: (SIGNATURE)					DATE	TIME	RECEIVED BY: (SIGNATURE)					DATE	TIME		
ORLANDO					8/2/05	13:20	J. Boonstra					8/2/05	13:20	Steve Massick					8/2/05	1200		
RELINQUISHED BY: (SIGNATURE)					DATE	TIME	RECEIVED BY: (SIGNATURE)					DATE	TIME	RELINQUISHED BY: (SIGNATURE)					DATE	TIME		
Steve Massick					8/3/05																	
RECEIVED BY: (SIGNATURE)					DATE	TIME	RELINQUISHED BY: (SIGNATURE)					DATE	TIME	RECEIVED BY: (SIGNATURE)					DATE	TIME		
RECEIVED FOR LABORATORY BY: (SIGNATURE)					DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS													
ORLANDO					8/4/05	1445	YES	ORL38228	SAMPLES SHIPPED BY GREYHOUND BUS FROM GAINESVILLE, FL. TO ORLANDO, FL. BUS BILL #													

# GROUNDWATER SAMPLING LOG

SITE: Citrus County Landfill NAME: 03860-011-01	SITE LOCATION: Lacanto, FL
WELL NO: Waste Sludge	SAMPLE ID: 0552CCWS
DATE: 8-3-05	

## PURGING DATA

WELL DIAMETER (in):	TUBING DIAMETER (in):	WELL SCREEN LENGTH: feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				PURGE METHOD:
1 WELL VOLUME = (            feet -            feet) X            gallons/foot =            gallons/				Water Level Measured with: 2.1 2.2 2.3 3.4.1
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
=            gallons + (            gallons/foot X            feet) +            gallons =            gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:
				PURGING ENDED AT:
TOTAL VOLUME PURGED (gallons):				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0950	N/A	N/A	N/A	N/A	5.80	30.9	3233	7.11	>1000	BLACK	NONE

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Steve Messick / Jones Edmunds & Assoc.	SAMPLER(S) SIGNATURES: <i>Steve Messick</i>	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0958
PUMP OR TUBING DEPTH IN WELL (feet): N/A	SAMPLE PUMP VOC Sampling Rate <100 ml/min <input checked="" type="checkbox"/>	TUBING MATERIAL CODE: N/A	SAMPLING EQUIPMENT CODE: New Lab Bottle
FIELD DECONTAMINATION: Y <input checked="" type="checkbox"/>	FLOW RATE Other Samples: 2500 (mL / min)	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/>
Filtration Equipment Type: _____		FILTER SIZE: _____ µm	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOL	PRES. USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL PH	INTENDED ANALYSIS
0552CCWS	2	CG	40ML	NONE	NONE	N/A	TCLP8260
↓	1	PE	250ML	NONE	NONE	N/A	pH, solids
↓	1	PE	250ML	NONE	NONE	N/A	HG/T, TCLP; AG, AS, BA, CD, CR, PB, SE
↓	3	AG	1L	NONE	NONE	N/A	TCLP; 8081; 8082; 8151; 8270

REMARKS:  
 \* Verified Sample pH as <2 or >12 (as applicable) at N/A  
 Sky Conditions: BROKEN CLOUDS Ambient Air Temperature: 30°C  
 Approx. Wind Speed and Direction: 0-5

### Comments:

SAMPLED DIPPED FROM HOLDING TANK