



TETRA TECH HAI

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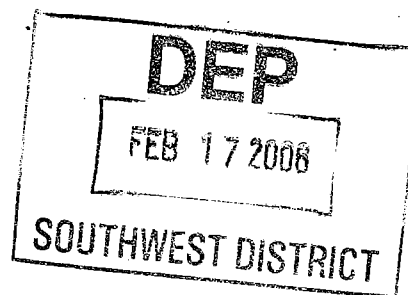
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February 9, 2006

Via UPS Overnight

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

**Subject: Semi-Annual Groundwater Monitoring Report
Enterprise Recycling & Disposal Facility
Angelo's Aggregate Materials, Ltd.
FDEP Permit Nos. 177982-001-SC, 177982-002-SO
Pasco County, Florida**



GW
SW

Tt HAI #99.0331.027, File 12.0

Dear Mr. Morris:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is providing for your review the semi-annual groundwater report for the October 2005 groundwater monitoring event for the Enterprise Recycling & Disposal Facility in accordance with the requirements listed in the above referenced Florida Department of Environmental Protection (FDEP) permit.

1.0 INTRODUCTION

Angelo's is currently permitted to process and dispose of Class III debris waste within an area of approximately 105 acres. The facility is located at the northwest corner of the intersection of Enterprise Road and Auton Road, Dade City, Pasco County, Florida. The facility is presently permitted for operation by the FDEP through Solid Waste Management Permit No. 177982-002-SO.

All fieldwork, monitor well installations, sampling methodologies, data evaluation, data QA/QC, chemical analysis, and statistical analysis were conducted in accordance with Angelo's FDEP approved Groundwater Monitoring Plan. This report presents the results of the October 2005 semi-annual monitoring event.

1.1 Groundwater Monitoring Plan

The groundwater monitoring plan currently consists of 13 groundwater monitor wells, seven (7) within the uppermost aquifer (MW-1, MW-5A, MW-6, MW-7A, MW-8, MW-9, and MW-10), and six (6) within the Floridan aquifer (MW-1B, MW-5B, MW-7B, MW-8B, MW-9B, and MW-10B). The groundwater monitoring network consists of two (2) upgradient background monitor wells, MW-1 and MW-1B, and eleven (11) downgradient detection



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monitor wells, MW-5A, MW-5B, MW-6, MW-7A, MW-7B, MW-8, MW-8B, MW-9, MW-9B, MW-10, and MW-10B. A site map depicting major site features, monitor wells, and piezometers is presented on Figure 1. Piezometers P-2, P-4, P-6, P-8, P-10, P-11, and monitor well MW-11 are used for water level measurements.

2.0 FIELD SAMPLING ACTIVITIES AND LABORATORY TESTING

Tt HAI's field personnel collected groundwater samples for laboratory analysis in accordance with DEP-SOP-001/01, FDEP's standard operating procedure (SOP) for field activities. Groundwater samples were collected from ten (10) of the 13 monitor wells (MW-1, MW-1B, MW-5A, MW-5B, MW-6, MW-7A, MW-7B, MW-8B, MW-9B, and MW-10B), and from the onsite supply well from October 25-27, 2005, and were submitted to ENCO Laboratories. Monitor wells MW-8, MW-9, and MW-10 were dry and thus could not be sampled during this event. Water level elevations were obtained at all piezometers and monitor wells on October 26, 2005. The following paragraphs discuss the procedures used during the field activities and the analytical testing program completed for the project.

2.1 Field Activities

Tt HAI personnel performed field activities associated with purging and sampling of monitoring wells from October 25-27, 2005. Prior to purging the wells, depths to water and water level elevations (feet, NGVD) were recorded to the nearest hundredth of a foot from the surveyed top of casing of each well. The water level measurements were used for determining water volumes in the well casing. The water level measurements collected on October 26, 2005 were used for the preparation of groundwater contour maps to estimate groundwater flow direction.

A peristaltic pump was used to purge monitor wells MW-5A, MW-5B, MW-6, MW-7A, and MW-7B since the depth to water in each well was less than 22 feet. A stainless steel submersible pump was used to purge monitor wells MW-1, MW-1B, MW-8B, MW-9B, and MW-10B since the depth to water in each well was deeper than 22 feet. Once drawdown stabilized, a minimum of one well volume, or one-equipment volume if the entire screen was submerged, was purged prior to initial measurements of the field parameters. After the field parameters stabilized within the required limits, samples were collected. All sampling equipment was fully decontaminated between monitor wells pursuant to Tt HAI's quality assurance protocols and the DEP-SOP-001-01. Following completion of purging activities, samples were collected by Tt HAI in accordance with DEP-SOP-001/01, FDEP's SOP for field activities, from the wells using a peristaltic pump, or submersible pump. Samples collected for analysis of volatile compounds using the peristaltic pump were collected from the sample tubing. During sampling, field parameters including static water levels (before purging), pH, temperature, dissolved oxygen, turbidity, color and sheen (by observation), and specific conductance were measured and recorded for each well on a water sampling log. The groundwater sampled from the supply well was collected from a sample port between the well



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head and the storage tank. Prior to collection of this groundwater sample, a polyethylene tube was attached to the sample port to collect water for field parameter measurements. Once the field parameters stabilized and a minimum of 25-gallons of water was purged from the sample port, the sample was collected per FDEP SOP sampling protocols. Following collection of samples into laboratory provided containers and ice chests; the samples were transported to the contract laboratory under signed chain of custody documentation. Copies of the Groundwater Sampling Logs are provided in Appendix A.

Samples were also collected from the temporary pond and Pond 1, as required by Pasco County. Field logs for collection of these samples are also provided in Appendix A.

2.2 Laboratory Analysis and QA/QC

The groundwater samples collected from the site were transported to ENCO Laboratories, in Orlando, Florida for analytical testing in accordance with ENCO's CompQAP No. 960038 and NELAC E83182. The FDEP required analytes for this event included the seven (7) field parameters, total ammonia as N, chlorides, iron, mercury, nitrate, sodium, total dissolved solids, and the parameters listed in 40 CFR Part 258, Appendix I.

The required analytical parameters for the temporary pond sample include conductivity, nitrates, and chemical oxygen demand. The required analytical parameters for the Pond 1 sample include field parameters, unionized ammonia, bicarbonate, BOD₅, copper, iron, mercury, nitrate, sodium, zinc, TDS, total organic carbon, fecal coliform, total phosphates, chlorophyll A, and total nitrogen.

3.0 QUALITY ASSURANCE AND QUALITY CONTROL

One (1) equipment blank was collected as part of the field sampling and analysis activities. Analytes detected in the blank included sodium at a concentration of 5.3 mg/L, zinc at a concentration of 0.21 mg/L, chlorides at a concentration of 9.0 mg/L, nitrate at a concentration of 4.0 mg/L, and TDS at a concentration of 170.0 mg/L. It is likely that these detections are due to an impurity in the analyte-free water used for decontamination procedures or that the decontamination procedures were not as thorough as required for complete decontamination during this sampling event.

All samples submitted to ENCO were analyzed within the required holding times as determined by the analytical methods. The laboratory method blanks did not indicate detectable concentrations of any parameters. The results of all laboratory control standards were within acceptable limits. The quality control and quality assurance results are summarized and presented with the analytical reports in Appendix B.



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4.0 MONITORING RESULTS

Groundwater conditions at the facility were evaluated based on physical and analytical data obtained as a part of the sampling event. Physical data included groundwater elevations to determine the direction of groundwater flow within the monitored aquifers. The data were also compared to the applicable State of Florida groundwater quality standards in accordance with the requirements of the operating permit. The following paragraphs discuss groundwater conditions at the facility during this sampling period.

4.1 Groundwater Flow

The water level measurements collected by Tt HAI personnel during the event were converted to potentiometric head elevations relative to the National Geodetic Vertical Datum (NGVD). The potentiometric head elevations are presented in Table 1 and on Figure 2 (surficial aquifer) and Figure 3 (Floridan aquifer).

Potentiometric elevations in the Floridan aquifer ranged from a low of 70.65 feet, NGVD in piezometer P-8 near the south boundary of the property to a high of 72.39 feet, NGVD in monitor well MW-10B near the southeast area of the property. Relative to water levels measured in April 2005, overall groundwater elevations measured in October 2005 have ranged from a decrease of 2.85 feet to an increase of 10.42 feet.

Groundwater in the surficial aquifer, as shown in Figure 2, has an overall flow direction "uphill" towards the west, which is different from the April 2005 sampling event, but similar to the October 2004 sampling event. We interpret this change as a transient response to higher water levels. The Floridan aquifer, as shown in Figure 3, has a flow direction from the north toward the south, which is consistent with the previous sampling event. The groundwater elevations at P-11 have been historically high and are not consistent with the groundwater elevations of either the surficial or the Floridan aquifer monitor wells and piezometers. The water level at P-11 likely represents a perched water table or a water level within the clay confining unit, and is therefore not used in the groundwater contour maps. The groundwater elevations at MW-5A have typically been high during past monitoring events, but appear to be higher than surrounding surficial monitor wells during the April sampling events, compared to the October sampling events. The high groundwater level at MW-5A likely represent a perched water table or a water level within the clay confining unit, and is therefore also not used in the groundwater contour map. Groundwater levels also appeared to be high at monitor well MW-6 and piezometer P-6 during the October 2005 sampling event. These wells have not shown unusually high groundwater elevation levels in the past, but are likely the result of an overactive storm season. Water levels typically rebound to normal levels during the April sampling events. Since the groundwater elevation levels at monitor well MW-6 and piezometer P-6 appeared considerably higher than the surrounding surficial monitor wells, these wells were also not used in the groundwater contour map.



4.2 Evaluation of Groundwater Quality Results

Table 2 lists the analytes for each monitor well that exceeded the water quality MCLs or other guidance concentrations. A disc with the laboratory analytical reports in the FDEP Data Validator format is provided in Appendix C.

Iron exceeded the State criterion in the sample from MW-1, with a concentration of 0.58 mg/L, exceeded the criterion in the sample from MW-5B with a concentration of 0.54 mg/L, and slightly exceeded the criterion in the sample from MW-10B with a concentration of 0.35 mg/L. Other parameters were detected in some samples but did not exceed concentration criteria. Those parameters include selenium, vanadium, zinc, iron, sodium, chloride, nitrate, nitrite, ammonia, TDS, methyl ethyl ketone, alkalinity (no criteria found), and bicarbonate (no criteria found).

Methyl ethyl ketone (2-Butanone) was detected in monitor well MW-8B at a concentration of 140 ug/L, which is well below the minimum criteria for this compound. We believe this detection was the result of PVC glue used to extend the well casing above the elevation of the road, since methyl ethyl ketone is a primary component of this glue. Within 30 days of receipt of the laboratory results, monitor well MW-8B was resampled for confirmation. Prior to sampling, the well was surged in order to clear any residual glue. The resample result did not indicate the presence of this compound.

Dissolved oxygen content exceeded the 20% saturation limit in monitor wells MW-1, MW-1B, MW-5A, MW-5B, MW-6, MW-7A, MW-9B, MW-10B, and the supply well onsite even though the wells were purged at flow rates of approximately 0.025 to 1.0 gallon per minute, and in accordance with the DEP SOP requirements. The dissolved oxygen results are relatively consistent with the initial sampling event. Turbidity was below 20 NTUs in each of the monitor wells sampled.

Field pH values were below the 6.5 to 8.5 standard unit (SU) range in monitor wells MW-1, MW-5A, MW-6, and MW-7A. This is not uncommon in the surficial aquifer. Field pH was above the 6.5 to 8.5 range for monitor well MW-7B, which observed a value of 11.66 SU. This result is consistent with past results and is likely the result of residual grout in the well. This well will be re-developed prior to the next sampling event.

5.0 CONCLUSION

Groundwater levels are lower in each of the monitor wells and piezometers, than during the October 2004 sampling event, and flow direction is consistent in both the surficial and Floridan aquifer compared to the October 2004 sampling event. The groundwater flow directions in the surficial aquifer appear to fluctuate from one sampling event to another, but remain consistent during the wet and dry seasons when compared year to year. With the



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exception of iron, which was detected above the MCL, no other metals or indicator parameters were found to exceed State minimum criteria. Eight monitor well samples exceeded the standard for dissolved oxygen; and five monitor well samples exceeded the standard for pH, but these conditions are believed to be naturally occurring in the groundwater in this area.

Please call me if you have any questions concerning the data presented in this report.

Very truly yours,

Tetra Tech HAI

A handwritten signature in black ink, appearing to read 'Jennifer L. Deal'.

Jennifer L. Deal, P.E.
Project Manager

A handwritten signature in black ink, appearing to read 'Miguel Garcia', followed by the date '2-8-06'.

Miguel A. Garcia, P.G.
Project Hydrogeologist

JLD/cr/99.0331.027/corresp/SemiAnnGMR.doc
Attachments

cc: Jeff Rogers, Angelo's
Andy Alipour, Pasco County

FIELD SAMPLE DATA RECORD

Date: 10/27/05 Time: 1117 Project No. 99.0331.027

Sample/Station ID No. Temporary Pond Sampled by: Dale Clayton

Sample Matrix: Groundwater Surface Water Soil
 Sediment Drum Sludge
 Grab Composite

Weather Conditions: Sunny, cool, breezy

Appearance of Sample: Milky Tan color Odor: None

Well Depth: ft Water Level: ft. above/below land surface/top of casing
circle circle

Purging Method: Time and/or amount:

Sampling Method: Intermediate Container

Sample Containers: Methods: Nitrate Nitrite, CO2

Type	Volume	Quality	Preservation
<u>PE</u>	<u>250 ml</u>	<u>Excellent</u>	<u>H2SO4</u>
<u>PE</u>	<u>250 ml</u>	<u>Excellent</u>	<u>None</u>

Volume Pumped Gallons	Temperature °C	Conductivity <small>ms</small> umhos/cm	pH	Remarks
<u>NA</u>	<u>17.0</u>	<u>1048</u>	<u>5.07</u>	<u>Sample taken from first 6" of SW on SE corner of Temp Pond.</u>

FIELD SAMPLE DATA RECORD

Date: 10/27/05 Time: 1146 Project No. 99.0331.022

Sample/Station ID No. Pond 1 Sampled by: Dale Clayton

Sample Matrix: Groundwater Surface Water Soil
 Sediment Drum Sludge
 Grab Composite

Weather Conditions: Sunny, cool, breezy

Appearance of Sample: Milky tan Odor: None

Well Depth: ft Water Level: ft. above/below land surface/top of casing
circle circle

Purging Method: Time and/or amount:

Sampling Method: Intermediate container

Sample Containers: Methods: BOD, Chlorophyll A, TOC, Fe, Hg, Cu, Na, Zn, Alk, Bicarb, TDS, TSS, Nitrate Nitrite, TP, TN, COD, Phos, Coli/F

Type	Volume	Quality	Preservation
<u>Various</u> <u>(10 containers)</u>	<u>Various</u>	<u>Excellent</u>	<u>Various</u>

Volume Pumped Gallons	Temperature °C	Conductivity um ^{ns} /cm	pH	Remarks
<u>NA</u>	<u>17.8</u>	<u>1124</u>	<u>6.85</u>	<u>Sample taken from first 6" of SW at center of Pond 1.</u>

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 : Hartman & Assoc., Inc.
ADDRESS: 201 E. Pine St.
Suite 1000
Orlando, FL 32801

REPORT # : ORL39492
DATE SUBMITTED: October 27, 2005
DATE REPORTED : November 4, 2005

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ATTENTION: Jennifer Deal

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:


REFERENCE: 99.0331.027

Enterprise Road Landfill

ORL39492-1	: MW-5A	@ 11:38 (10/26/05)
ORL39492-2	: MW-5B	@ 12:52 (10/26/05)
ORL39492-3	: MW-6	@ 14:18 (10/26/05)
ORL39492-4	: MW-7A	@ 15:21 (10/26/05)
ORL39492-5	: MW-7B	@ 16:30 (10/26/05)
ORL39492-6	: SUPPLY WELL	@ 17:20 (10/26/05)
ORL39492-7	: EQUIPMENT BLANK	@ 10:27 (10/26/05)
ORL39492-8	: POND 1	@ 11:46 (10/27/05)
ORL39492-9	: TEMPORARY POND	@ 11:17 (10/27/05)

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.

PROJECT MANAGER



Jeff Reine

ENCO LABORATORIES

REPORT # : ORL39492
 DATE REPORTED: November 4, 2005
 REFERENCE : 99.0331.027
 PROJECT NAME : Enterprise Road
 Landfill

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RESULTS OF ANALYSIS

<u>TOTAL METALS</u>	<u>METHOD</u>	<u>POND 1</u>	<u>Units</u>
Copper Date Analyzed	7211	0.0011 11/02/05	mg/L
Iron Date Analyzed	6010	2.8 11/02/05 00:12	mg/L
Mercury Date Analyzed	7470	0.00020 U 11/02/05 18:07	mg/L
Sodium Date Analyzed	6010	1.5 11/02/05 00:10	mg/L
Zinc Date Analyzed	6010	0.050 U 11/02/05 00:12	mg/L

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

ENCO LABORATORIES

REPORT # : ORL39492
 DATE REPORTED: November 4, 2005
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 PROJECT NAME : Enterprise Road
 Landfill

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RESULTS OF ANALYSIS

PA METHOD 300 -
Anions by IC

	<u>POND 1</u>	<u>Units</u>
Nitrite-N	0.10 U	mg/L
Nitrate-N	0.11	mg/L
Date Analyzed	10/27/05 19:37	

MISCELLANEOUS

<u>METHOD</u>	<u>POND 1</u>	<u>Units</u>
Alkalinity (as CaCO3) Date Analyzed	310.2 70.3 11/02/05 10:53	mg/L
Ammonia-N Date Analyzed	350.1 0.020 U 11/03/05 13:34	mg/L
Ionized Ammonia-NH3 Date Analyzed	DRAFT 0.020 U 11/03/05 13:17	mg/L
Bicarbonate (as CaCO3) 4500-CO2/B Date Analyzed	70.3 11/04/05 13:40	mg/L
COD Date Prepared Date Analyzed	405.1 2.0 U 10/27/05 09:25 11/01/05 09:05	mg/L
COD Date Prepared Date Analyzed	410.4 16.0 10/31/05 16:00 11/01/05 11:30	mg/L

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

ENCO LABORATORIES

REPORT # : ORL39492
DATE REPORTED: November 4, 2005
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PROJECT NAME : Enterprise Road
 Landfill

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RESULTS OF ANALYSIS

<u>MISCELLANEOUS</u>	<u>METHOD</u>	<u>POND 1</u>	<u>Units</u>
Nitrate-Nitrite-N Date Analyzed	300.0	0.11 11/03/05 12:00	mg/L
Nitrate-Nitrite-N Date Analyzed	353.1	0.10 U 10/28/05 12:26	mg/L
Total Kjeldahl-N Date Analyzed	351.2	0.44 11/04/05 10:46	mg/L
Nitrogen, Total Date Analyzed	CALC	0.56 11/04/05 14:53	mg/L
Phosphorus, Total Date Analyzed	365.4	2.7 11/04/05 13:20	mg/L
PH Date Analyzed	150.1	7.6 Q 10/28/05 10:00	S.U.
Total Dis. Solids Date Prepared Date Analyzed	160.1	194. 11/01/05 16:25 11/02/05 14:28	mg/L
Total Org. Carbon Date Analyzed	415.1	3.7 11/03/05 12:02	mg/L
Total Susp. Solids Date Prepared Date Analyzed	160.2	17.0 10/27/05 15:45 10/28/05 10:37	mg/L

U = Compound was analyzed for but not detected to the level shown.
 Q = Analysis performed outside of method-specified holding time.

ENCO LABORATORIES

REPORT # : ORL39492
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RESULTS OF ANALYSIS

<u>FIELD PARAMETERS</u>	<u>METHOD</u>	<u>POND 1</u>	<u>Units</u>
Spec Cond-Field Date Analyzed	120.1	4. U 10/27/05 11:46	umhos/cm
pH-field Date Analyzed	150.1	6.85 10/27/05 11:46	S.U.
Temp-field Date Analyzed	170.1	17.8 10/27/05 11:46	Deg. C

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

ENCO LABORATORIES

REPORT # : ORL39492
 DATE REPORTED: November 4, 2005
 REFERENCE : 99.0331.027
 PROJECT NAME : Enterprise Road
 Landfill

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RESULTS OF ANALYSIS

EPA METHOD 300 -
Anions by IC

	<u>TEMPORARY POND</u>	<u>Units</u>
Nitrite-N	0.10 U	mg/L
Nitrate-N	0.10 U	mg/L
Date Analyzed	10/27/05 19:55	

MISCELLANEOUS

<u>METHOD</u>	<u>TEMPORARY POND</u>	<u>Units</u>
COD	10.0 U	mg/L
Date Prepared	10/31/05 16:00	
Date Analyzed	11/01/05 11:30	
Nitrate-Nitrite-N	0.10 U	mg/L
Date Analyzed	11/03/05 12:00	

FIELD PARAMETERS

<u>METHOD</u>	<u>TEMPORARY POND</u>	<u>Units</u>
Spec Cond-Field	4. U	umhos/cm
Date Analyzed	10/27/05 11:17	
pH-field	5.07	S.U.
Date Analyzed	10/27/05 11:17	
Temp-field	17	Deg. C
Date Analyzed	10/27/05 11:17	

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

November 02, 2005

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824

Work Order: OOJ0460
Project Name: GENERAL SUBCONTRACT
Project Number: ORL-39492
Date Received: 10/28/05

Attn: JEFF REINE

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
ORL39492-8	OOJ0460-01	10/27/05 11:46

Comments: Client filtered sample within hold time.
Samples were received into laboratory at a temperature of 2.0 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

Florida Certification Number: E83012

Approved By:



TestAmerica Analytical - Orlando
Enid Ortiz For Shali Brown
Project Manager

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: JEFF REINE

Work Order: OOJ0460
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/28/05

LABORATORY REPORT

Sample ID: ORL39492-8 - Lab Number: OOJ0460-01 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
79-61-8	Chlorophyll-a	10.1		mg/m3	0.500	0.500	1	10/31/05 10:30	MLM	SM 10200H	5K02020

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: JEFF REINE

Work Order: OOJ0460
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/28/05

PROJECT QUALITY CONTROL DATA Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number
General Chemistry Parameters					
Chlorophyll-a	0.500	U	mg/m3	5K02020	5K02020-BLK1

PROJECT QUALITY CONTROL DATA Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	RPD Limit	Q.C. Batch	Sample Duplicated
General Chemistry Parameters								
Chlorophyll-a	1.30	1.30		mg/m3	0	55.2	5K02020	OOJ0382-01

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: JEFF REINE

Work Order: OOJ0460
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/28/05

CERTIFICATION SUMMARY

TestAmerica Analytical - Orlando

Method	Matrix	Nelac	Florida
SM 10200H	Water - NonPotable	X	X

DATA QUALIFIERS AND DEFINITIONS

U The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.

Client: ENCO Project #: 0050460

Cooler Received On: 10/28/05 And Opened On: 10/28/05 By: a.c.

Time Received: 14:53 Time Opened: 14:53

Signature: [Signature]

Were custody seals on the outside of cooler? YES NO If Yes # _____ Location _____

Were the custody seals in tact? YES NO (if no seals present)

Chain of Custody Complete? YES NO If No Discrepancy _____

Cooler Temperature When Opened: 2 Degrees Celsius. 1x Disc
Temperature Blank Included: YES NO

Packing Material Bubblewrap NONE Other: _____

Cooling: ICE Other _____ Total # Of Containers: _____ # Vials _____

Any Bottles Broken? YES NO If Yes Which One(s)? _____

Any Missing Samples? YES NO If Yes Which One(s)? _____

pH Levels: H2SO4 <=2? _____ HNO3 <=2? _____ HCL <=2? _____ NaOH >=10? _____
and # Containers

Unpreserved between 6 and 8? _____

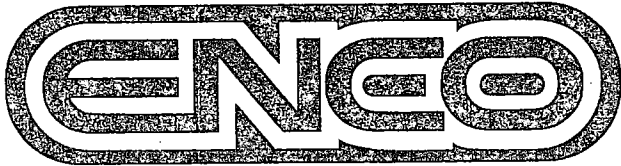
Any Air Bubbles in VOC Vials? YES NO (if no VOA vials received)

Was there enough sample shipped in each container? YES NO

Correct Preservatives Used? YES NO If No, please explain _____

Project Manager SB

Corrective Actions Taken



50460 ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF # _____

4810 Executive Park Court, Suite 211
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ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE		PROJECT NO. ORL39492		P.O. NUMBER		MATRIX TYPE		REQUIRED ANALYSIS		PAGE 1	OF 1		
PROJECT LOC. (State) FL	SAMPLER(s) NAME			PHONE		SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER SOIL/SOLID/SEDIMENT NONAQUEOUS LIQUID (oil, solvent, etc.) AIR SLUDGE OTHER <i>Chlorophylla</i>				<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge) Date Due: _____			
CLIENT NAME ENCO	CLIENT PROJECT MANAGER JEFF REINE			FAX									
CLIENT ADDRESS (CITY, STATE, ZIP)													
SAMPLE						PRESERVATIVE		NUMBER OF CONTAINERS SUBMITTED		REMARKS			
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION								
1	10/27/05	11:46	X		ORL39492-8	X							
2													
3													
4													
5													
6													
7													
8											Filtered 130mL		
9													
10													
11											Forwarded to T.A.		
12													
13													
14													
SAMPLE KIT PREPARED BY:		DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
<input type="checkbox"/> JACKSONVILLE <input type="checkbox"/> ORLANDO				<i>K. Case</i>				10/27/05	1510	<i>R.C.</i>		11/28	14:53
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)				DATE	TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME
				<i>J</i>									
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							
						2 °C							

October 31, 2005

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824

Work Order: OOJ0409
Project Name: GENERAL SUBCONTRACT
Project Number: ORL-39492
Date Received: 10/27/05

Attn: JEFF REINE

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
ORL39492-8	OOJ0409-01	10/27/05 11:46

Samples were received into laboratory at a temperature of 5.0 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

Florida Certification Number: E83012

Approved By:

Lori Mangrum

TestAmerica Analytical - Orlando
Lori Mangrum For Shali Brown
Project Manager

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: JEFF REINE

Work Order: OOJ0409
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/27/05

LABORATORY REPORT

Sample ID: ORL39492-8 - Lab Number: OOJ0409-01 - Matrix: Water - NonPotable

AS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Microbiology											
761792	Fecal Coliforms	5800		CFU/100 ml	1	1	1	10/28/05 16:10	SXJ	SM 9222D	5J27037
									Prep Date: 10/27/05 17:00		

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824

Work Order: OOJ0409
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/27/05

Attn: JEFF REINE

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number
Microbiology Fecal Coliforms	I	U	CFU/100 ml	5J27037	5J27037-BLK1

Client: ENVIRONMENTAL CONSERVATION LABS
10775 CENTRAL PORT DRIVE
ORLANDO, FL 32824
Attn: JEFF REINE

Work Order: OOJ0409
Project: GENERAL SUBCONTRACT
Project Number: ORL-39492

Sampled: 10/27/05
Received: 10/27/05

CERTIFICATION SUMMARY

TestAmerica Analytical - Orlando

Method	Matrix	Nelac	Florida
SM 9222D	Water - NonPotable	X	X

DATA QUALIFIERS AND DEFINITIONS

U The compound was analyzed for but not detected

ADDITIONAL COMMENTS

When insufficient sample volume is received for Matrix Spike and Matrix Spike Duplicate, Laboratory Control Spike and Laboratory Control Spike Duplicate data is used for batch QC.

Client: ENCO Project #: 0050409

Cooler Received On: 10/27/05 And Opened On: 10/27/05 By: alc

Time Received: 16:00 Time Opened: 16:00

Signature: [Signature]

Were custody seals on the outside of cooler? YES NO If Yes # _____ Location _____

Were the custody seals in tact? YES NO N/A (if no seals present)

Chain of Custody Complete? YES NO If No Discrepancy _____

Cooler Temperature When Opened: 5 Degrees Celsius. 1x Fecal
Temperature Blank Included: YES NO

Packing Material Bubblewrap NONE Other: _____

Cooling: ICE Other _____ Total # Of Containers: _____ # Vials _____

Any Bottles Broken? YES NO If Yes Which One(s)? _____

Any Missing Samples? YES NO If Yes Which One(s)? _____

pH Levels: H2SO4 <=2? _____ HNO3 <=2? _____ HCL <=2? _____ NaOH >=10? _____
and # Containers
Unpreserved between 6 and 8? _____

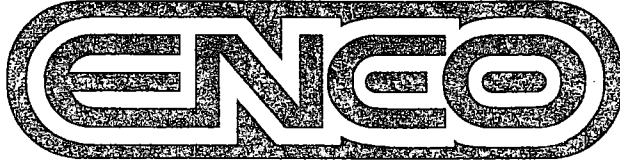
Any Air Bubbles in VOC Vials? YES NO N/A (if no VOA vials received)

Was there enough sample shipped in each container? YES NO

Correct Preservatives Used? YES NO If No, please explain _____

Project Manager SB

Corrective Actions Taken



J0409 ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF # _____

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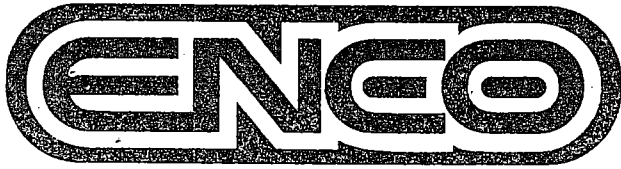
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ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE				PROJECT NO. DRL39492	P.O. NUMBER	MATRIX TYPE				REQUIRED ANALYSIS				PAGE /	OF /
PROJECT LOC. (State) FL	SAMPLER(S) NAME				PHONE	<i>Cal: F</i> SURFACE WATER GROUND WATER WASTE WATER DRINKING WATER SOIL/SOLID/SEDIMENT NONAQUEOUS LIQUID (oil, solvent, etc.) AIR SLUDGE OTHER								<input checked="" type="checkbox"/> STANDARD REPORT DELIVERY <input type="checkbox"/> EXPEDITED REPORT DELIVERY (surcharge)	
CLIENT NAME ENCO				CLIENT PROJECT MANAGER Jeff Reine											
CLIENT ADDRESS (CITY, STATE, ZIP)						PRESERVATIVE				REMARKS					
SAMPLE						NUMBER OF CONTAINERS SUBMITTED									
STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTE WATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	REMARKS
1	10/27/05	11:46	X		DRL39492-8	X								1	NOTE: Chlorophyll a Sample will follow tomorrow 10/28. it's being lab filtered.
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															Farmed to T.A.
12															
13															
14															
SAMPLE KIT PREPARED BY: <input type="checkbox"/> JACKSONVILLE <input type="checkbox"/> ORLANDO				DATE	TIME	RELINQUISHED BY: (SIGNATURE) <i>K. Coz</i>				DATE	TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>			
RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)				DATE	TIME	RELINQUISHED BY: (SIGNATURE)			
RECEIVED BY: (SIGNATURE)				DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)			
RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS 5°							



ENVIRONMENTAL CONSERVATION LABORATORIES

QSARF # P27289..

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ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE		PROJECT NO.		P.O. NUMBER		MATRIX TYPE		REQUIRED ANALYSIS		PAGE	OF										
Enter Price Road Landfill		99.0331.020																			
PROJECT LOG (State)	SAMPLER(S) NAME	PHONE																			
FL	H.L. Clayton	407-839-3955																			
CLIENT NAME	CLIENT PROJECT MANAGER	FAX																			
T.H. Hartman Assoc. Inc.	Jennifer Deal	407-839-2066																			
CLIENT ADDRESS (CITY, STATE, ZIP)																					
201 E. Pine St, Suite 1000, Orlando, FL																					
SAMPLE		32801																			
STATION	DATE	TIME	GRAB	COMP.	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil solvent, etc.)	AIR	SLUDGE	OTHER	PREPARED BY	DATE	TIME	REMARKS			
MW-5A	10/26/05	1138	X		MW-5A	X															
MW-5B		1252	X		MW-5B	X															
MW-6		1418	X		MW-6	X															
MW-7A		1521	X		MW-7A	X															
MW-7B		1630	X		MW-7B	X															
Supply Well		1720	X		Supply Well	X															
EQB Pond		1027	X		EQB								X								
Pond 1	10/27/05	1146	X		Pond 1	X															
Temp Pond		1117	X		Temporary Pond	X															
										10		2		Nitrate Nitrite, COD		Temp Pond Field: Temp: 17.0°C		Cond: 048 mS/cm		pH: 5.07	
SAMPLE KIT PREPARED BY:		DATE	TIME	RELINQUISHED BY (SIGNATURE)		DATE	TIME	RECEIVED BY (SIGNATURE)		DATE	TIME										
JACKSONVILLE ORLANDO LP		10/18/05	10:05	Luis Portu		10/18/05	10:05	[Signature]		10/29/05	1335										
RELINQUISHED BY (SIGNATURE)		DATE	TIME	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)		DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS: * Fe, Hg, As, Ba, Bi, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Na, S, T, I															
K. [Signature]		10/18/05	135	ES	39	Pond 1, field on Temp: 10.8, 7.8 - Cond: 124															