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# 2009 Second Semiannual Groundwater Quality Monitoring Report

Enterprise Class III Landfill and Recycling Facility

Permit No. 177982-007-S0/T3



ADAPT FILES ON CD  
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December 22, 2009

Mr. John Morris, P.G.

Florida Department of Environmental Protection – Southwest District  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637

RE: Compliance Monitoring Report – Second Semiannual 2009  
Enterprise Class III Landfill and Recycling Facility  
Permit No. 177982-008-SC and 177982-007-SO  
Project Number: 0-101475

Dear Mr. Morris:

This report presents data from the semiannual sampling event at the Enterprise Class III Landfill and Recycling Facility performed on October 6, 7, and 8, 2009. A limited resample of MW-7A for Mercury and Ethylene Dibromide was conducted on November 23, 2009. The resample results are also included in this report.

All groundwater wells which require sampling were sampled during this event for the parameters listed in Specific Condition 4.c. of the permit with the exception of MW-1A and MW-3A which were dry and MW-8, MW-9, MW-10, and MW-12A which had insufficient water for sampling. The supply well was sampled for parameters listed in Specific Condition 4.c. of the permit; however Pond 1 had no access and the Temporary Pond was dry and not sampled. Quality Assurance/Quality Control samples were also collected.

Monitoring wells MW-3A, MW-4A, MW-8, MW-9, MW-10, MW-11, and MW-12A are surficial aquifer monitoring wells. Water levels within the surficial aquifer have declined in recent years and may not be laterally continuous in all areas. Each monitoring location with a dry surficial aquifer well has an existing Floridan aquifer well installed in a cluster. Groundwater samples were collected from each of the Floridan aquifer wells.

Parameters reported at or outside groundwater standards are presented in Attachment 2.

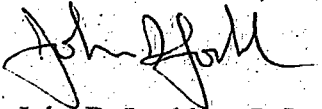
The pH in MW-7BR was reported at 8.98 S.U. which is consistent with the previous results and with historical values from the nearby MW-7B (now abandoned and replaced with MW-7BR). Values of pH around 9.0 S.U. are most commonly a result of the influence of grout used during well construction, and not a result of impacts from landfills (typically pH values are less than 6.0 S.U. when impacted by landfill leachate). It appears that groundwater in the vicinity of MW-7BR is still being influenced by the large amount of grout used during the construction of MW-7B (MW-7BR was installed approximately 23 feet south of MW-7B). It is important to note that no other parameters were reported at or above applicable standards in the MW-7BR groundwater sample. Grout influence on pH is generally very localized. Continued monitoring in MW-7BR is warranted.

The October groundwater sample collected from monitoring well MW-7A reported Mercury and Ethylene Dibromide above their applicable Primary Drinking Water Standards (PDWS). Monitoring well MW-7A was resampled in November to analyze for Mercury and Ethylene Dibromide. The resampling results indicated Ethylene Dibromide was below the laboratory

detection limit. The Mercury value was 2.4 ug/L, which is less than the October value but slightly above the PDWS. The Mercury concentration will be closely evaluated in the groundwater samples to be collected as part of the First Semiannual 2010 monitoring event. If Mercury is reported above the PDWS; and confirmed by resample, we will contact the Department regarding additional actions to be taken to address the issue.

If you have any questions regarding this report, please contact me at (352) 642-1105.

Sincerely,

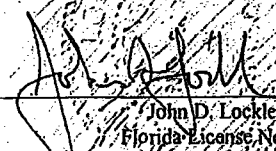


John D. Locklear, P.G.  
Senior Project Manager

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Xc: John Arnold, Angelos Recycled Materials  
Jeff Rogers, Angelo's Recycled Materials  
Andy Alipour, Pasco County

Attachment 1: Groundwater Elevation Data and Groundwater Contour Map  
Attachment 2: Analysis Results Compared to Groundwater Standards  
Attachment 3: Groundwater Parameters At or Above the Laboratory Detection Limit  
Attachment 4: Field Forms and Chains-of-Custody

12/29/09  
  
John D. Locklear P.G.  
Florida License No. 2467

# SURFACE WATER SAMPLING LOG

SITE NAME: <i>Angelo's Enterprise Landfill</i>	SITE LOCATION: <i>Dade City, FL</i>
STATION # <i>Pond</i>	DATE: _____

## FIELD MEASUREMENT DATA

DEPTH OF WATER:	WATER DISCHARGING/ ESTIMATED DISCHARGE RATE: GAL/MIN
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OBSERVATIONS:

SAMPLE METHOD:	SAMPLE INITIATED AT:	SAMPLE ENDED AT:	
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Time	Water Depth (ft)	Secchi Depth (ft)	Sample Depth (ft)	pH	Temp. (°C)	Cond. (µmhos)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Color	Odor	ORP (mVolts)

## SAMPLING DATA

SAMPLED BY (PRINT)/ AFFILIATION: <i>DAN Lichtenwalter / HDR</i>	SAMPLER(S) SIGNATURE(S): <i>Dan Lichtenwalter</i>
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FIELD DECONTAMINATION: Y N	FIELD FILTERED: Y N	DUPLICATE: Y N
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SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	

REMARKS:

Sky Conditions: \_\_\_\_\_

Ambient Air Temperature: \_\_\_\_\_

Approx. Wind Speed and Direction: \_\_\_\_\_

*NO Access - NO sample*

*Dan L.*

*1120 hrs*

**NOTE: The above do not constitute all of the information required by Chapter 62-160, F.A.C.**