



**Hillsborough County
Florida**

Office of the County Administrator
Michael S. Merrill

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January 11, 2011

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JAN 14 2011
SOUTHWEST DISTRICT
TAMPA

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Solid Waste Section
13051 Telecom Parkway
Temple Terrace, FL 33637

**Re: Southeast County Landfill
Leachate Treatment Plant
Effluent Analytical Data – Fourth Quarter (October - December, 2010)**

Dear Ms. Pelz:

In accordance with the Operation Permit No. 35435-014-SO/01, the Hillsborough County Public Utilities Department, Solid Waste Management Division, is pleased to provide the analytical data for the fourth quarter effluent sampling of the leachate treatment plant at the Southeast County Landfill (SCLF). The referenced permit requires the sampling of the leachate effluent and recording of the pH value on a weekly basis. Daily effluent pH readings from the leachate plant during the three month period ranged from 7.6– 8.0 pH units. The permit also requires that a monthly sample of the effluent be collected and analyzed for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), and Nitrate.

On October 7, November 2, and December 7, 2010, required effluent samples were collected from the dedicated sampling port at the treatment plant. The monthly samples were analyzed by our contracted laboratory, Test America, Inc. for the parameters listed above. The analytical data report sheets are provided within this report for your technical review.

No significant changes in the concentrations of the above-referenced parameters were noted during this quarterly reporting event. The plant was shut down on December 8, 2010 for scheduled inspection and maintenance.

Ms. Susan Pelz
January 11, 2011
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Should you have any questions or comments concerning the information provided in this
submittal, please feel free to contact me at (813) 276-2908 or David Adams at (813) 276-2944.

Sincerely,



Patricia V. Berry
Landfill and Environmental Services Section Manager
Public Utilities Department
Solid Waste Management Division

PVB/mdt
Enclosures

xc: Larry Ruiz, SWMD
David Adams, P.G., SWMD
Ron Cope, EPC

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Mr. David S Adams
 Hillsborough County
 Solid Waste Management Department
 601 East Kennedy Blvd
 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-37608-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-37608-1

Date Sampled: 10/07/2010 1110
 Date Received: 10/07/2010 1400
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	490	mg/L	10	20	1.0

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Job Number: 660-37608-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-37608-1

Date Sampled: 10/07/2010 1110
Date Received: 10/07/2010 1400
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	10/07/2010 1110	
Field pH	8.24	SU			1.0
Field Temperature	28.11	Degrees C			1.0
Oxygen, Dissolved	0.90	mg/L			1.0
Specific Conductance	9704	umhos/cm			1.0

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Job Number: 660-37608-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-37608-1

Date Sampled: 10/07/2010 1110
 Date Received: 10/07/2010 1400
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5400	mg/L	Date Analyzed: 10/11/2010 1450 25	25	1.0
Method: SM 2540D Total Suspended Solids	38	mg/L	Date Analyzed: 10/11/2010 1202 1.4	1.4	1.0
Method: SM 5210B Biochemical Oxygen Demand	12	mg/L	Date Analyzed: 10/08/2010 1547 2.0	2.0	1.0

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Job Number: 660-37608-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-37608-2

Date Sampled: 10/07/2010 1100
 Date Received: 10/07/2010 1400
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

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Job Number: 660-37608-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-37608-2

Date Sampled: 10/07/2010 1100
 Date Received: 10/07/2010 1400
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
			Date Analyzed: 10/11/2010 1451		
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0
			Date Analyzed: 10/11/2010 1202		
Method: SM 5210B Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	1.0
			Date Analyzed: 10/08/2010 1547		

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-37608-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

Mr. David S Adams
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Job Number: 660-38047-1

Client Sample ID: Leachate Effluent SELF
 Lab Sample ID: 660-38047-1

Date Sampled: 11/02/2010 1150
 Date Received: 11/02/2010 1515
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	1.5	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	580	mg/L	10	20	1.0

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Job Number: 660-38047-1

Client Sample ID: Leachate Effluent SELF
 Lab Sample ID: 660-38047-1

Date Sampled: 11/02/2010 1150
 Date Received: 11/02/2010 1515
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	11/02/2010 1150	
Field pH	7.89	SU			1.0
Field Temperature	29.43	Degrees C			1.0
Oxygen, Dissolved	5.80	mg/L			1.0
Specific Conductance	10379	umhos/cm			1.0

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Job Number: 660-38047-1

Client Sample ID: Leachate Effluent SELF
 Lab Sample ID: 660-38047-1

Date Sampled: 11/02/2010 1150
 Date Received: 11/02/2010 1515
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5500	mg/L	25	25	1.0
Method: SM 2540D Total Suspended Solids	30	mg/L	1.2	1.2	1.0
Method: SM 5210B Biochemical Oxygen Demand	14	mg/L	2.0	2.0	1.0

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Job Number: 660-38047-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-38047-2

Date Sampled: 11/02/2010 1145
 Date Received: 11/02/2010 1515
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

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Job Number: 660-38047-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-38047-2

Date Sampled: 11/02/2010 1145
 Date Received: 11/02/2010 1515
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	Date Analyzed: 11/04/2010 1131 5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	Date Analyzed: 11/04/2010 1426 1.0	1.0	1.0
Method: SM 5210B Biochemical Oxygen Demand	2.0 U	mg/L	Date Analyzed: 11/03/2010 1721 2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-38047-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

Mr. David S Adams
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 Solid Waste Management Department
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 24th Floor County Center
 Tampa, FL 33601

Job Number: 660-38627-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-38627-1

Date Sampled: 12/07/2010 1155
 Date Received: 12/07/2010 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.29	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	650	mg/L	50	100	5.0

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Job Number: 660-38627-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-38627-1

Date Sampled: 12/07/2010 1155
Date Received: 12/07/2010 1435
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	12/07/2010 1155	
Field pH	7.68	SU			1.0
Field Temperature	19.20	Degrees C			1.0
Oxygen, Dissolved	1.82	mg/L			1.0
Specific Conductance	10687	umhos/cm			1.0

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Job Number: 660-38627-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-38627-1

Date Sampled: 12/07/2010 1155
 Date Received: 12/07/2010 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	6000	mg/L	25	25	1.0
Method: SM 2540D Total Suspended Solids	97	mg/L	3.9	3.9	1.0
Method: SM 5210B Biochemical Oxygen Demand	110	mg/L	2.0	2.0	1.0

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Client Sample ID: Equipment Blank
Lab Sample ID: 660-38627-2

Date Sampled: 12/07/2010 1150
 Date Received: 12/07/2010 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	0.10 U	mg/L	0.10	0.50	1.0
Method: 5220 D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

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Date Sampled: 12/07/2010 1150
 Date Received: 12/07/2010 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	1.0	1.0	1.0
Method: SM 5210B Biochemical Oxygen Demand	2.0 U	mg/L	2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-38627-1

Lab Section	Qualifier	Description
General Chemistry	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.