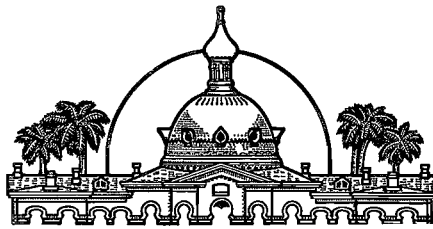


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Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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January 4, 2010

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

Dept. of Environmental
Protection
JAN 06 2010
Southwest District

Re: **Southeast County Landfill
Leachate Treatment Plant
Effluent Analytical Data – Fourth Quarter (October - December, 2009)**

Dear Ms. Pelz:

In accordance with the Operation Permit No. 35435-014-SO/01, the Hillsborough County Solid Waste Management Department (SWMD) 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 SWMD to sample the leachate effluent and record the pH value on a weekly basis. Daily effluent pH readings from the leachate plant during the three month period ranged from 7.5– 8.4 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 4, and December 2, 2009, the SWMD collected the required effluent samples from the dedicated effluent sampling port at the treatment plant. The monthly samples were analyzed by our contracted laboratory, Test America, Inc. for the parameters listed above. The complete analytical data report sheets are provided within this letter report for your technical review.

Nitrate values observed during this monitoring period were below detection limits (BDL) in October, 1 milligram per liter (mg/l) in November, and BDL in December. TDS values were also observed during these months at concentrations of 6,100 mg/l, 6,000 mg/l, and 5,900

Ms. Susan Pelz
January 4, 2010
Page 2

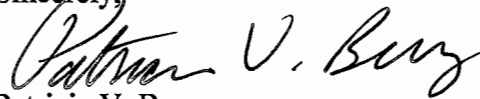
Dept. of Environmental
Protection

JAN 06 2010

mg/l, respectively.

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

Sincerely,



Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

PVB/mdt
Enclosures

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

G:enviro/projects/self/leachate plant/ltp-effluent-4thqtr2009.doc

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

Job Number: 660-31952-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-31952-1

Date Sampled: 10/07/2009 1100
 Date Received: 10/07/2009 1345
 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: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	610	mg/L	20	40	2.0

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

Job Number: 660-31952-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-31952-1

Date Sampled: 10/07/2009 1100
Date Received: 10/07/2009 1345
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	10/07/2009 1100	
Field pH	8.06	SU			1.0
Field Temperature	31.11	Degrees C			1.0
Oxygen, Dissolved	6.74	mg/L			1.0
Specific Conductance	10699	umhos/cm			1.0

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

Job Number: 660-31952-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-31952-1

Date Sampled: 10/07/2009 1100
 Date Received: 10/07/2009 1345
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	6100	mg/L	50	50	1.0
Method: SM 2540D Total Suspended Solids	100	mg/L	2.4	2.4	1.0
Method: SM 5210B Biochemical Oxygen Demand	7.1	mg/L	2.0	2.0	1.0

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

Job Number: 660-31952-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-31952-2

Date Sampled: 10/07/2009 1050
 Date Received: 10/07/2009 1345
 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: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

Dept. of Environmental
Protection

JAN 06 2010

Job Number: 660-31952-1

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

Southwest District

Client Sample ID: Equipment Blank
Lab Sample ID: 660-31952-2

Date Sampled: 10/07/2009 1050
Date Received: 10/07/2009 1345
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	Date Analyzed: 10/09/2009 0828 5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	Date Analyzed: 10/12/2009 0750 1.0	1.0	1.0
Method: SM 5210B Biochemical Oxygen Demand	2.0 U	mg/L	Date Analyzed: 10/08/2009 1540 2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-31952-1

Lab Section	Qualifier	Description
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.
	F	MS or MSD exceeds the control limits

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

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-32352-1

Dept. of Environmental
 Protection
 Job Number: 660-32352-1

JAN 06 2010

Southwest District

Date Sampled: 11/04/2009 1210
 Date Received: 11/04/2009 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	PQL	Dilution
Method: 353.2 Nitrate as N	1.0	mg/L	1.0	5.0	10
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	750	mg/L	10	20	1.0

Date Analyzed: 11/05/2009 0540
 Date Analyzed: 11/10/2009 0915
 Date Prepared: 11/09/2009 1400

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

Job Number: 660-32352-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-32352-1

Date Sampled: 11/04/2009 1210
 Date Received: 11/04/2009 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	11/04/2009 1210	
Field pH	7.92	SU			1.0
Field Temperature	28.89	Degrees C			1.0
Oxygen, Dissolved	5.70	mg/L			1.0
Specific Conductance	12492	umhos/cm			1.0

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

Job Number: 660-32352-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-32352-1

Date Sampled: 11/04/2009 1210
 Date Received: 11/04/2009 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	6000	mg/L	50	50	1.0
Method: SM 2540D Total Suspended Solids	45	mg/L	1.3	1.3	1.0

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

Job Number: 660-32352-1

Client Sample ID: Equipment Blank
Lab Sample ID: 660-32352-2

Date Sampled: 11/04/2009 1200
 Date Received: 11/04/2009 1435
 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: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

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

Job Number: 660-32352-1

Client Sample ID: Equipment Blank
Lab Sample ID: 660-32352-2

Date Sampled: 11/04/2009 1200
 Date Received: 11/04/2009 1435
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	Date Analyzed: 11/06/2009 1305 5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	Date Analyzed: 11/06/2009 0853 1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-32352-1

<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.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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

Job Number: 660-32766-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-32766-1

Date Sampled: 12/02/2009 1240
 Date Received: 12/02/2009 1420
 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: SM 5210B Biochemical Oxygen Demand	140	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	560	mg/L	10	20	1.0

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

Job Number: 660-32766-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-32766-1

Date Sampled: 12/02/2009 1240
Date Received: 12/02/2009 1420
Client Matrix: Water

Analyte	Result/Qualifier	Unit	NONE	NONE	Dilution
Method: Field Sampling			Date Analyzed:	12/02/2009 1240	
Field pH	8.29	SU			1.0
Field Temperature	25.32	Degrees C			1.0
Oxygen, Dissolved	8.30	mg/L			1.0
Specific Conductance	10765	umhos/cm			1.0

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

Job Number: 660-32766-1

Client Sample ID: Leachate Effluent
Lab Sample ID: 660-32766-1

Date Sampled: 12/02/2009 1240
Date Received: 12/02/2009 1420
Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5900	mg/L	50	50	1.0
Method: SM 2540D Total Suspended Solids	22	mg/L	1.0	1.0	1.0

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

Job Number: 660-32766-1

Client Sample ID: Equipment Blank
Lab Sample ID: 660-32766-2

Date Sampled: 12/02/2009 1230
Date Received: 12/02/2009 1420
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: SM 5210B Biochemical Oxygen Demand	1.8 I	mg/L	1.5	2.0	1.0
Method: SM 5220D Prep Method: SM 5220 Chemical Oxygen Demand	10 U	mg/L	10	20	1.0

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

Job Number: 660-32766-1

Client Sample ID: Equipment Blank
 Lab Sample ID: 660-32766-2

Date Sampled: 12/02/2009 1230
 Date Received: 12/02/2009 1420
 Client Matrix: Water

Analyte	Result/Qualifier	Unit	PQL	PQL	Dilution
Method: SM 2540C Total Dissolved Solids	5.0 U	mg/L	Date Analyzed: 12/03/2009 1022 5.0	5.0	1.0
Method: SM 2540D Total Suspended Solids	1.0 U	mg/L	Date Analyzed: 12/03/2009 0712 1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-32766-1

Lab Section	Qualifier	Description
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.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.