

Hillsborough County
Florida

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July 15, 2010

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUL 19 2010
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 – Second Quarter (April - June, 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 second 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 record the pH value on a weekly basis. Daily effluent pH readings from the leachate plant during the three month period ranged from 7.2– 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.

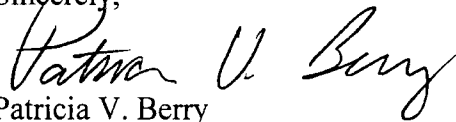
On April 7, May 5, and June 2, 2010, required effluent samples were collected from the dedicated sampling port at the treatment plant. The monthly samples were analyzed by our contracted laboratory, Test America, Inc. for the parameters listed above. The analytical data report sheets are provided within this letter report for your technical review.

Nitrate values were below detection limits (BDL) during each month of this monitoring period. In addition, TDS values were observed at concentrations of 5,600 mg/l, 5,700 mg/l, and 6,400 mg/l and COD values were observed at 520 mg/l, 1,000 mg/l and 710 mg/l, respectively.

Ms. Susan Pelz
July 15, 2010
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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 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

G:enviro/projects/self/leachate plant/ltp-effluent-2ndqtr2010.doc

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

Job Number: 660-34686-1

Client Sample ID: Leachate Effluent
 Lab Sample ID: 660-34686-2

Date Sampled: 04/07/2010 1137
 Date Received: 04/07/2010 1350
 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 | 520 | mg/L | 50 | 100 | 5.0 |

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Lab Sample ID: 660-34686-2

Date Sampled: 04/07/2010 1137
Date Received: 04/07/2010 1350
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | NONE | NONE | Dilution |
|-------------------------------|------------------|-----------|----------------|-----------------|----------|
| Method: Field Sampling | | | Date Analyzed: | 04/07/2010 1137 | |
| Field pH | 7.92 | SU | | | 1.0 |
| Field Temperature | 26.72 | Degrees C | | | 1.0 |
| Oxygen, Dissolved | 7.17 | mg/L | | | 1.0 |
| Specific Conductance | 10666 | umhos/cm | | | 1.0 |

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Date Sampled: 04/07/2010 1137
 Date Received: 04/07/2010 1350
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | PQL | PQL | Dilution |
|--|------------------|------|-----|-----|----------|
| Method: SM 2540C Total Dissolved Solids | 5600 | mg/L | 25 | 25 | 1.0 |
| Method: SM 2540D Total Suspended Solids | 28 | mg/L | 1.2 | 1.2 | 1.0 |
| Method: SM 5210B Biochemical Oxygen Demand | 22 | mg/L | 2.0 | 2.0 | 1.0 |

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Job Number: 660-35167-1

Client Sample ID: LEACHATE EFFLUENT
Lab Sample ID: 660-35167-6

Date Sampled: 05/05/2010 1055
 Date Received: 05/05/2010 1330
 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 | 1000 | mg/L | 100 | 200 | 10 |

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Job Number: 660-35167-1

Client Sample ID: LEACHATE EFFLUENT
Lab Sample ID: 660-35167-6

Date Sampled: 05/05/2010 1055
Date Received: 05/05/2010 1330
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | NONE | NONE | Dilution |
|-------------------------------|------------------|-----------|----------------|-----------------|----------|
| Method: Field Sampling | | | Date Analyzed: | 05/05/2010 1055 | |
| Field pH | 8.02 | SU | | | 1.0 |
| Field Temperature | 31.54 | Degrees C | | | 1.0 |
| Oxygen, Dissolved | 5.28 | mg/L | | | 1.0 |
| Specific Conductance | 11345 | umhos/cm | | | 1.0 |

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Client Sample ID: LEACHATE EFFLUENT
 Lab Sample ID: 660-35167-6

Date Sampled: 05/05/2010 1055
 Date Received: 05/05/2010 1330
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | PQL | PQL | Dilution |
|--|------------------|------|---------------------------------------|-----|----------|
| Method: SM 2540C Total Dissolved Solids | 5700 | mg/L | Date Analyzed: 05/10/2010 1319 25 | 25 | 1.0 |
| Method: SM 2540D Total Suspended Solids | 44 | mg/L | Date Analyzed: 05/10/2010 0741 1.0 | 1.0 | 1.0 |
| Method: SM 5210B Biochemical Oxygen Demand | >80.52 | mg/L | Date Analyzed: 05/07/2010 0654 2.0 | 2.0 | 1.0 |

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Job Number: 660-35578-2

Client Sample ID: LEACHATE EFFLUENT
Lab Sample ID: 660-35578-2

Date Sampled: 06/02/2010 1215
Date Received: 06/02/2010 1500
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 | 710 J3 | mg/L | 50 | 100 | 5.0 |

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Job Number: 660-35578-2

Client Sample ID: LEACHATE EFFLUENT
 Lab Sample ID: 660-35578-2

Date Sampled: 06/02/2010 1215
 Date Received: 06/02/2010 1500
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | NONE | NONE | Dilution |
|-------------------------------|------------------|-----------|----------------|-----------------|----------|
| Method: Field Sampling | | | Date Analyzed: | 06/02/2010 1215 | |
| Field pH | 7.54 | SU | | | 1.0 |
| Field Temperature | 35.42 | Degrees C | | | 1.0 |
| Oxygen, Dissolved | 1.82 | mg/L | | | 1.0 |
| Specific Conductance | 12989 | umhos/cm | | | 1.0 |

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Job Number: 660-35578-2

Client Sample ID: LEACHATE EFFLUENT
 Lab Sample ID: 660-35578-2

Date Sampled: 06/02/2010 1215
 Date Received: 06/02/2010 1500
 Client Matrix: Water

| Analyte | Result/Qualifier | Unit | PQL | PQL | Dilution |
|--|------------------|------|-----|-----|----------|
| Method: SM 2540C Total Dissolved Solids | 6400 | mg/L | 50 | 50 | 1.0 |
| Method: SM 2540D Total Suspended Solids | 40 | mg/L | 1.5 | 1.5 | 1.0 |
| Method: SM 5210B Biochemical Oxygen Demand | 15 | mg/L | 2.0 | 2.0 | 1.0 |

DATA REPORTING QUALIFIERS

Client: Hillsborough County

Job Number: 660-35578-2

| <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. |