



Hillsborough County

May 29, 2015

Dept. Of Environmental Protection

JUN 01 2015

Southwest District

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Chip Fletcher

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Waste Permitting Section
13051 Telecom Parkway
Temple Terrace, FL 33637

**RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 56 – April 2015**

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the April 2015 sampling event conducted as part of the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole on the edge of Phase 6 at the Southeast County Landfill (SCLF), which was discovered on December 14, 2010.

As part of the agreement between the County and Florida Department of Environmental Protection (Department) Southwest District Office, four (4) upper Floridan/Limestone aquifer monitoring wells, designated as TH-72, TH-76, TH-77, and TH-78 are sampled on a monthly schedule. Representative samples were collected from each of these four (4) monitoring wells on April 1-2, 2015 and analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. The samples collected were analyzed by our contracted laboratory, Advanced Environmental Laboratories, Inc. The following paragraphs summarize the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

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pH

pH was observed within the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5-8.5 pH units in each of the four (4) upper Floridan/Limestone aquifer monitoring wells. The pH values in monitoring wells, TH-72, TH-76, TH-77, and TH-78 were recorded at 6.67, 7.28, 7.27, and 7.63 pH units, respectively, and the values are consistent with the historical data set.

Turbidity

Turbidity values in the upper Floridan/Limestone aquifer monitoring wells TH-72, TH-76, TH-77, and TH-78 were recorded at 1.02, 0.96, 0.47, and 1.27 Nephelometric Turbidity Units (NTUs), respectively, and these values are consistent with the historical data set.

Conductivity

The conductivity values in TH-72, TH-76, TH-77, and TH-78 were recorded at 2,459, 508, 495, and 584 umhos/cm, respectively. Monitoring well TH-72 is the closest upper Floridan/Limestone aquifer monitoring well to the sinkhole, and it continues to exhibit groundwater impacts similar to those observed over the past year. Conductivity values in TH-76, TH-77, and TH-78 are relatively low and consistent with the other unaffected deep wells across the site.

Total Dissolved Solids (TDS)

The TDS in monitoring well TH-72 was observed at 1,300 mg/l, which continues to be above the SDWS of 500 mg/l. The remaining three (3) down gradient upper Floridan/Limestone aquifer monitoring wells, TH-76, TH-77, and TH-78 exhibited TDS values of 270, 260, and 320 mg/l, respectively. These values are consistent with the water quality of the unaffected deep wells across the site.

Chloride

Chloride was observed at 810 mg/l in monitoring well TH-72, which is well above the SDWS of 250 mg/l, and the highest concentration observed to date. Chloride values in the down gradient upper Floridan/Limestone aquifer monitoring wells TH-76, TH-77, and TH-78 were observed at 9.7, 8.6, and 33 mg/l. These values are consistent with the unaffected deep wells across the site.

Iron

The total iron concentration in the upper Floridan/Limestone aquifer monitoring well TH-72 was 0.61 mg/l, which is above the SDWS of 0.3 mg/l. The remaining three monitoring wells, TH-76, TH-77, and TH-78 exhibited iron below the SDWS at 0.12, 0.13, and 0.24 mg/l, respectively. The concentrations of iron observed are consistent with the historical data sets for these wells.

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Sodium

Sodium was observed at a concentration of 170 mg/l in monitoring well TH-72, which is just above the Primary Drinking Water Standard (PDWS) of 160 mg/l. Sodium values in down gradient monitoring wells TH-76, TH-77, and TH-78 were observed at 19, 15, and 31 mg/l, which is consistent with the unaffected deep wells across the site.

Groundwater Elevations and Direction of Flow

On April 1, 2015, the County collected groundwater elevation data at eleven (11) locations along the western portion of Phases 1-6 at the landfill site, including seven (7) surficial aquifer wells and four (4) upper Floridan (limestone) aquifer wells. Contour diagrams have been generated manually with AutoCAD™ utilizing the pertinent data points,

No significant changes to the patterns of flow in the surficial aquifer were noted in the data set and the flow diagram for the surficial aquifer. The elevations observed within the wells closest to the sinkhole indicate that the flow pattern continues to be affected by the feature, which has not been unexpected. However, the overall direction of flow within the surficial aquifer remains toward the west/northwest.

A contour diagram of the upper Floridan / Limestone aquifer has been prepared for the west side of the landfill around the sinkhole, and it is provided with this submittal. During this sampling event, the changes in elevations between TH-72 and TH-76 is - 0.04 ft., and TH-72 and TH-77 is + 0.15 ft. Elevation of newly installed monitor well TH-78 indicated an elevation approximately 9 feet higher than those elevations recorded at TH-72, TH-76, and TH-77. This anomaly in the groundwater elevation indicates that TH-78 may be influenced by some sub-surface geologic formation that may be creating this potentiometric high. Based on the significant difference in elevations, the data from TH-78 was not utilized to prepare the contour diagram. However, the County maintains the position that the configuration of the three down gradient deep monitoring wells adequately addresses the potential for migration of the contamination observed in TH-72, and the three wells have not exhibited any impact to date.

Conclusions

The water quality observed in the April 2015 IAMP sampling event indicates that the monitoring well TH-72 continues to exhibit impacts to water quality in the upper Floridan / Limestone aquifer. The impacts observed include elevated conductivity, TDS, chloride, iron, and sodium. Overall, the values have remained relatively stable, and do not appear to be migrating to any of the down gradient deep monitoring wells. Down gradient wells, TH-76 and TH-77, and TH-78 continue to exhibit good water quality consistent with the unaffected deep wells at the site.

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Recommendations

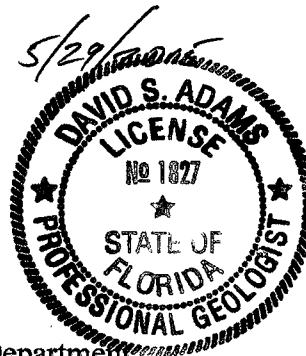
The County has submitted information to the FDEP Southwest District office that supports the discontinuation of the IAMP. Two select IAMP wells, TH-72 and TH-78, shall be included in the semi-annual sampling events conducted in accordance with the Landfill Operations Permit No. 35435-022-SO/01. The application for modification of that permit has been discussed with the FDEP, and will be formally submitted to the FDEP in Tallahassee in .

Enclosed for your review please find a site location map depicting the location of the monitoring wells sampled, the water quality data summary table for this sampling event, a groundwater elevation data table, groundwater contour and flow diagrams for the surficial and upper Floridan / Limestone aquifers, the historical data summary tables for the wells sampled this month, and the complete analytical data report from our contracted laboratory, Advanced Environmental Laboratories, Inc. Should you have any questions or require any additional information please feel free to call me at (813) 663-3221.

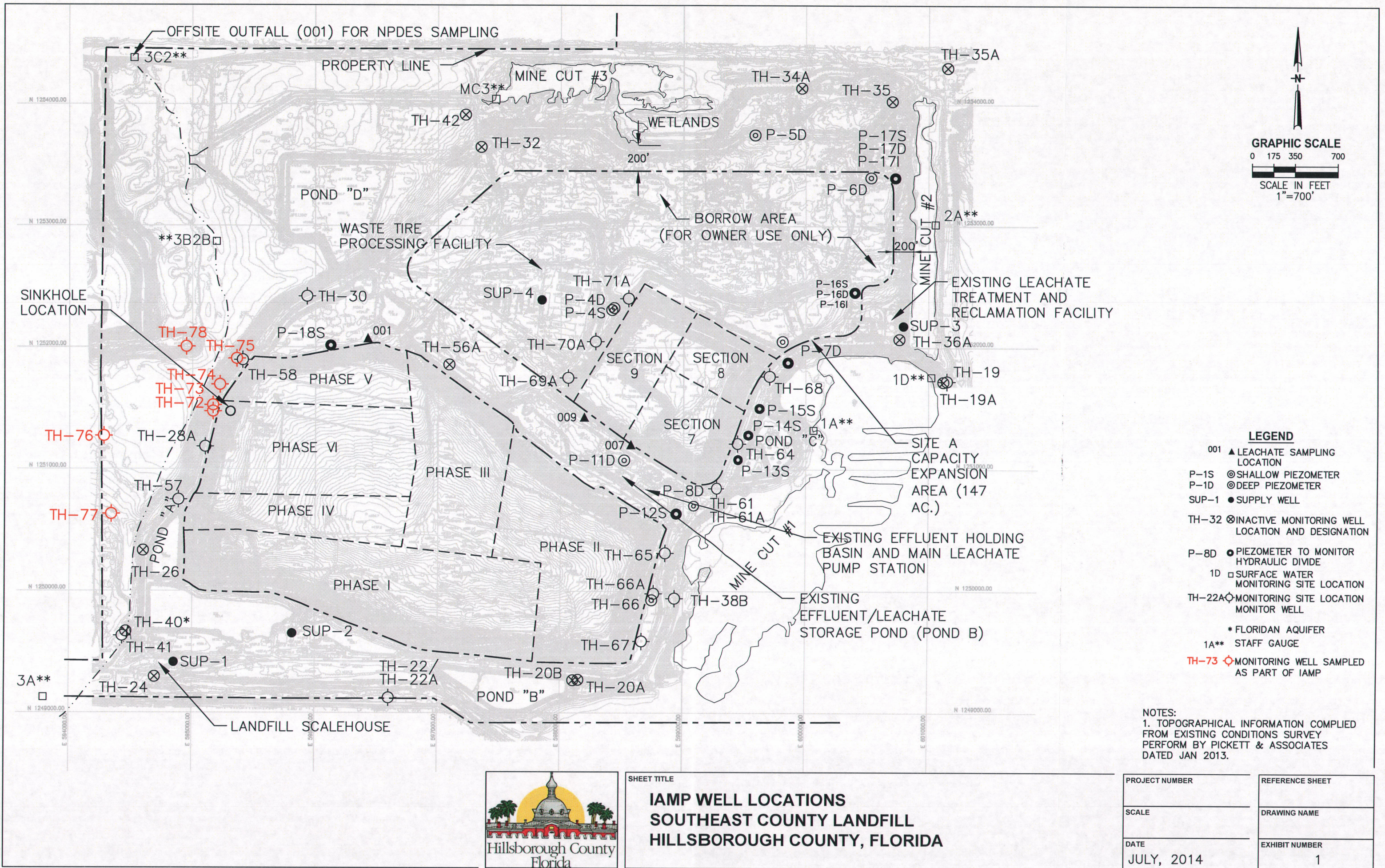
Respectfully submitted,



David S. Adams, P.G.
Environmental Manager
Public Utilities Department



xc: John Lyons, Director, Public Works Department
Kim Byer, Director, Solid Waste Division, Public Works
Larry Ruiz, Landfill Manager, Solid Waste Division, Public Works
Jeff Greenwell, GMIII, Environmental Services, Public Utilities
Richard Tedder, FDEP Tallahassee
Clark Moore, FDEP Tallahassee
Steve Morgan, FDEP, Southwest District
Andy Schipfer, EPC
Ernest Ely, WMI
Brian Miller, DOH
Rich Siemering, HDR
Bob Curtis, HDR
Joe O'Neill, CDS



Southeast County Landfill
Laboratory Analytical Data
Upper Floridan Aquifer Groundwater Monitoring Wells
April 1-2, 2015

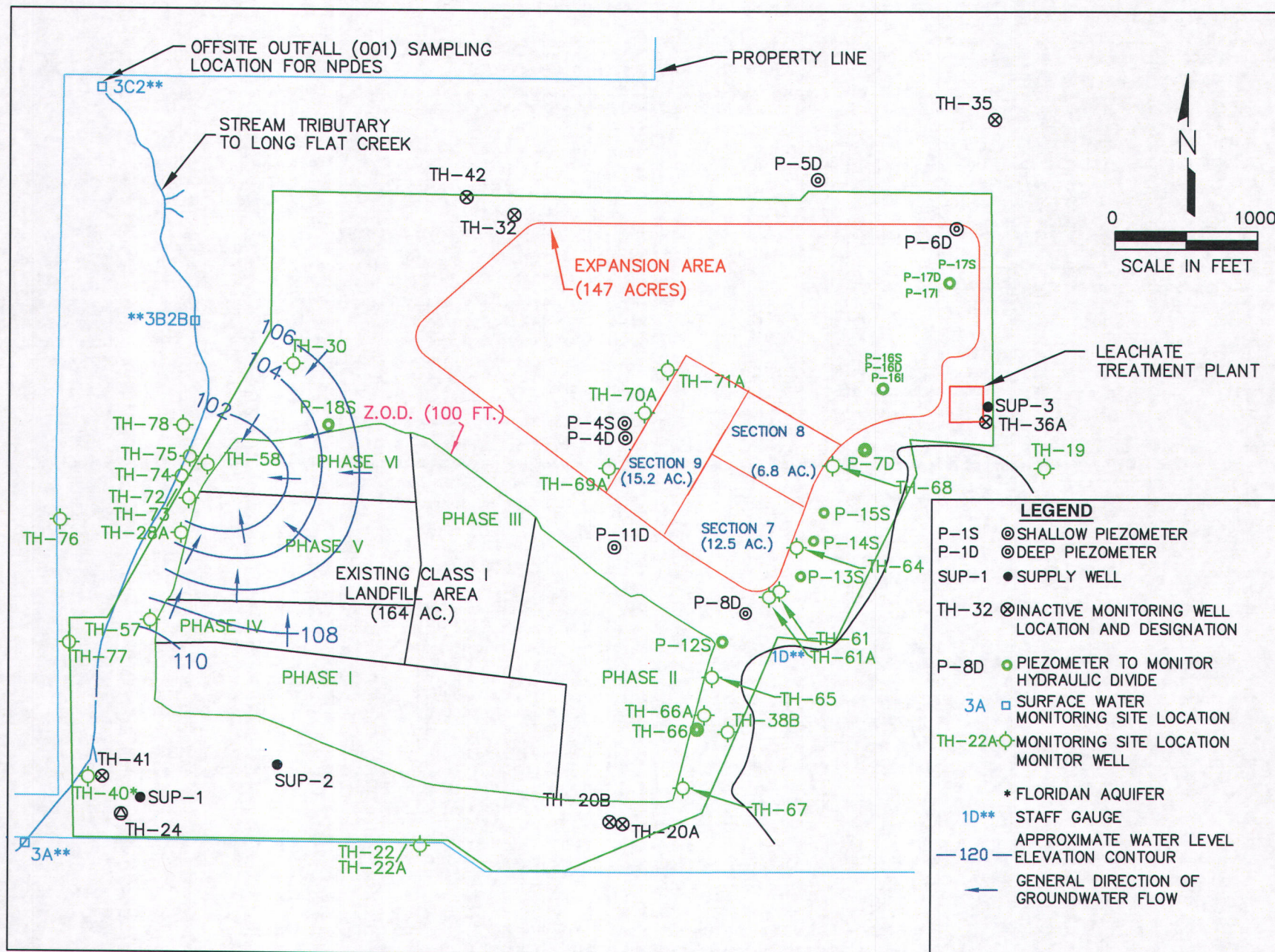
| GENERAL PARAMETERS | Upper Floridan Wells | | | | MCL STANDARD |
|--------------------------------------------------------------------------------------------------------|----------------------|--------|-----------|-----------|---------------|
| | TH-72 | TH-76 | TH-77 | TH-78 | |
| conductivity (umhos/cm) (field) | 2,459 | 508 | 495 | 584 | NS |
| dissolved oxygen (mg/l) (field) | 0.40 | 0.12 | 0.14 | 0.19 | NS |
| pH (field) | 6.67 | 7.28 | 7.27 | 7.63 | (6.5 - 8.5)** |
| temperature (°C) (field) | 23.59 | 22.94 | 23.62 | 23.30 | NS |
| turbidity (NTU) (field) | 1.02 | 0.96 | 0.47 | 1.27 | NS |
| total dissolved solids (mg/l) | 1,300 | 270 | 260 | 320 | 500** |
| chloride (mg/l) | 810 | 9.7 | 8.6 | 33 | 250** |
| ammonia nitrogen (mg/l as N) | 19 | 0.31 | 0.32 | 0.32 | NS |
| METALS (mg/l) | | | | | MCL STANDARD |
| arsenic | 0.00031 i | 0.0059 | 0.00015 u | 0.00022 i | 0.01* |
| iron | 0.61 | 0.12 i | 0.13 i | 0.24 | 0.3** |
| sodium | 170 | 19 | 15 | 31 | 160* |
| Note: Ref. Groundwater Guidance Concentrations, FDEP 2012 | | | | | |
| MCL = Maximum Contaminant Level | | | | | |
| NTU = Nephelometric Turbidity Units | | | | | |
| NS = No Standard | | | | | |
| u = parameter was analyzed but not detected. | | | | | |
| i = value was detected between the laboratory method detection limit and practical quantitation limit. | | | | | |
| * = Primary Drinking Water Standard | | | | | |
| ** = Secondary Drinking Water Standard | | | | | |
| 1,300 | | | | | |
| ug/l = micrograms per liter | | | | | |
| mg/l = milligrams per liter | | | | | |

Southeast County Landfill

Groundwater Elevations

April 1, 2015

| Measuring Point I.D. | T.O.C. Elevations (NGVD) | W.L. B.T.O.C. | W.L. (NGVD) | Time |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------|----------------|----------|
| TH-28A | 131.10 | 28.04 | 103.06 | 10:17 AM |
| TH-30 | 128.88 | 23.86 | 105.02 | 10:07 AM |
| TH-57 | 128.36 | 18.92 | 109.44 | 9:54 AM |
| TH-58 | 127.88 | 27.92 | 99.96 | 10:10 AM |
| TH-72* | 130.96 | 96.51 | 34.45 | 10:12 AM |
| TH-73 | 131.07 | 30.51 | 100.56 | 10:13 AM |
| TH-74 | 109.08 | 9.32 | 99.76 | 9:59 AM |
| TH-75 | 106.92 | 7.77 | 99.15 | 10:01 AM |
| TH-76* | 111.21 | 76.80 | 34.41 | 10:27 AM |
| TH-77* | 119.88 | 85.28 | 34.60 | 10:23 AM |
| TH-78* | 120.75 | 77.30 | 43.45 | 10:33 AM |
| NGVD = National Geodetic Vertical Datum T.O.C. = Top of Casing B.T.O.C. = Below Top of Casing * = Floridan Well W.L. = Water Level | | | | |



Southeast County Landfill
Groundwater Elevation Contour Diagram — April 1, 2015

N 1252000.00

FORMER
SINKHOLE
LOCATION

TRIBUTARY TO
LONG FLAT CREEK

TH-78

TH-75

TH-58

PHASE V

TH-73

TH-74

TH-72

34.45

TH-76

34.40

34.41

TH-28A

PHASE VI

34.50

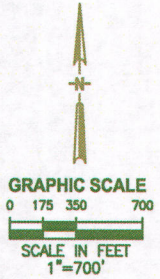
TH-57

TH-77

34.60

34.60

PHASE IV



LEGEND

- TH-28A ○ MONITORING WELL NOT SAMPLED FOR IAMP
- TH-73 ○ SURFICIAL AQUIFER WELL SAMPLED FOR IAMP
- TH-72 ○ UPPER FLORIDAN WELL SAMPLED FOR IAMP
- ← DIRECTION OF FLOW

APRIL 2015

UPPER FLORIDAN / LIMESTONE AQUIFER CONTOUR DIAGRAM
IN THE VICINITY OF THE FORMER SINKHOLE
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-72

| Date | Depth to Water (feet) | Water Table Elevation (NGVD) | conductivity (umhos/cm) (field) | dissolved oxygen (mg/l) (field) | pH (field) | temperature (°C) (field) | turbidity (NTU) (field) | total dissolved solids (mg/l) | chloride (mg/l) | ammonia nitrogen (mg/l as N) | arsenic (mg/l) | iron (mg/l) | sodium (mg/l) |
|------------|--------------------------|---------------------------------|------------------------------------|------------------------------------|------------|-----------------------------|----------------------------|----------------------------------|--------------------|---------------------------------|-------------------|-------------|---------------|
| 01/27/2011 | 115.69 | 15.27 | 551 | 0.39 | 7.43 | 22.88 | 3.2 | 320 | 32 | 0.22 | 0.004 u | 0.52 | 32 |
| 02/03/2011 | 112.18 | 18.78 | 565 | 1.09 | 7.38 | 22.95 | 9.9 | 300 | 32 | 0.21 | 0.004 u | 0.62 | 27 |
| 02/10/2011 | 109.80 | 21.16 | 514 | 1.58 | 7.34 | 22.65 | 3.2 | 340 | 31 | 0.28 | 0.004 u | 0.54 | 31 |
| 02/14/2011 | 108.18 | 22.78 | 483 | 1.15 | 7.36 | 22.7 | 3.5 | 320 | 32 | 0.24 | 0.0013 u | 0.58 | 32 |
| 02/24/2011 | 111.71 | 19.25 | 513 | 0.19 | 7.34 | 22.85 | 1 | 350 | 32 | 0.22 | 0.004 u | 0.53 | 31 |
| 03/03/2011 | 111.88 | 19.08 | 579 | 0.77 | 7.35 | 22.8 | 0.8 | 330 | 31 | 0.23 | 0.004 u | 0.43 | 32 |
| 03/10/2011 | 113.65 | 17.31 | 551 | 1.26 | 7.41 | 22.73 | 0.9 | 320 | 30 | 0.18 | 0.004 u | 0.35 | 31 |
| 03/17/2011 | 112.85 | 18.11 | 388 | 1.05 | 7.34 | 22.9 | 0.9 | 330 | 30 | 0.31 | 0.004 u | 0.25 | 31 |
| 03/24/2011 | 114.33 | 16.63 | 1192 | 1.5 | 7.58 | 23.1 | 1.5 | 1,100 | 350 | 9 | 0.004 u | 0.64 | 130 |
| 04/01/2011 | 115.70 | 15.26 | 928 | 0.16 | 7.41 | 22.8 | 3.6 | 520 | 110 | 2 | 0.004 u | 0.24 | 59 |
| 04/08/2011 | 112.10 | 18.86 | 810 | 0.92 | 7.35 | 23.13 | 6.1 | 420 | 87 | 1.9 | 0.004 u | 0.22 | 51 |
| 05/05/2011 | 116.21 | 14.75 | 609 | 0.71 | 7.67 | 23.01 | 6.6 | 320 | 33 | 0.3 | 0.004 u | 0.27 | 37 |
| 06/08/2011 | 119.19 | 11.77 | 607 | 0.71 | 7.65 | 23.35 | 4.51 | 340 | 32 | 0.57 | 0.004 u | 0.2 | 34 |
| 07/07/2011 | 113.30 | 17.66 | 606 | 0.72 | 7.4 | 23.25 | 3.94 | 150 | 64 | 2.1 | 0.004 u | 7.9 | 27 |
| 08/04/2011 | 103.31 | 27.65 | 564 | 0.33 | 7.29 | 23.18 | 0.4 | 360 | 33 | 0.21 | 0.004 u | 0.18 i | 34 |
| 09/08/2011 | 97.99 | 32.97 | 536 | 1.11 | 7.29 | 23.2 | 0.6 | 340 | 34 | 0.41 | 0.004 u | 0.18 i | 36 |
| 10/04/2011 | 99.45 | 31.51 | 471 | 1.69 | 7.31 | 23.13 | 1.1 | 290 | 31 | 0.3 | 0.004 u | 0.14 i | 34 |
| 11/03/2011 | 103.37 | 27.59 | 550 | 1.8 | 7.28 | 23.04 | 1.51 | 290 | 32 | 0.29 | 0.004 u | 0.15 i | 34 |
| 12/08/2011 | 106.80 | 24.16 | 528 | 1.92 | 7.31 | 22.9 | 0.73 | 320 | 29 | 0.32 | 0.004 u | 0.13 i | 33 |
| 01/05/2012 | 113.08 | 17.88 | 535 | 0.2 | 7.23 | 22.74 | 0.44 | 330 | 32 | 0.29 | 0.004 u | 0.097 i | 31 |
| 02/10/2012 | 113.86 | 17.10 | 511 | 0.94 | 7.3 | 22.89 | 1.39 | 310 | 28 | 0.28 | 0.004 u | 0.13 i | 30 |
| 03/07/2012 | 121.00 | 9.96 | 575 | 0.27 | 7.15 | 23.23 | 0.5 | 310 | 25 | 0.22 | 0.004 u | 0.11 i | 31 |
| 04/05/2012 | 124.96 | 6.00 | 522 | 1.09 | 7.08 | 23.18 | 0.65 | 280 | 28 | 0.41 | 0.004 u | 0.11 i | 29 |
| 05/03/2012 | 126.55 | 4.41 | 746 | 1.6 | 6.9 | 23.46 | 0.81 | 380 | 72 | 2.3 | 0.004 u | 0.54 | 49 |
| 06/07/2012 | 120.46 | 10.50 | 641 | 0.72 | 7.07 | 23.4 | 0.26 | 370 | 46 | 1 | 0.004 u | 0.23 | 37 |
| 07/05/2012 | 104.95 | 26.01 | 900 | 0.23 | 6.54 | 23.52 | 0.4 | 650 | 190 | 2.9 j3 | 0.004 u | 0.39 | 70 |
| 08/03/2012 | 98.26 | 32.70 | 843 | 0.69 | 6.77 | 23.6 | 2.23 | 730 | 210 | 3 | 0.004 u | 0.48 | 78 |
| 09/06/2012 | 91.18 | 39.66 | 2,357 | 0.2 | 6.51 | 23.62 | 1.05 | 1,300 | 570 | 12 | 0.004 u | 1.1 | 170 |
| 10/04/2012 | 90.19 | 40.77 | 1,654 | 0.6 | 6.43 | 23.22 | 0.46 | 1,500 | 650 | 25 | 0.004 u | 1.9 | 210 |
| 11/07/2012 | 99.29 | 31.67 | 2,488 | 0.76 | 6.58 | 23.03 | 0.74 | 1,400 | 540 | 15 | 0.004 u | 1.4 | 180 |
| 12/05/2012 | 101.82 | 29.14 | 2,416 | 0.23 | 6.49 | 23.18 | 0.45 | 1,300 | 540 | 13 | 0.004 u | 1.3 | 180 j3 |
| 01/03/2013 | 100.65 | 30.31 | 2,430 | 1.1 | 6.44 | 23.09 | 0.42 | 1,400 | 500 | 15 | 0.004 u | 1.3 | 170 j3 |
| 02/07/2013 | 105.58 | 25.38 | 2,206 | 0.6 | 6.5 | 23.1 | 0.22 | 1,100 | 470 | 13 | 0.004 u | 1.1 | 160 |
| 03/07/2013 | 110.00 | 20.96 | 1,234 | 0.3 | 6.61 | 22.85 | 0.41 | 770 | 290 | 11 | 0.004 u | 1.1 | 110 |
| 04/04/2013 | 111.35 | 19.61 | 1,252 | 0.33 | 6.74 | 23.15 | 9.9 | 870 | 260 | 10 | 0.004 u | 1 | 100 |
| 05/02/2013 | 109.56 | 21.40 | 1,615 | 0.18 | 6.83 | 23.16 | 0.45 | 810 | 300 | 8.6 | 0.004 u | 0.87 | 110 |
| 06/04/2013 | 109.62 | 21.34 | 1,440 | 0.31 | 7.13 | 23.3 | 0.27 | 850 | 290 | 8.4 | 0.004 u | 0.82 | 120 |
| 07/03/2013 | 98.72 | 32.24 | 1,450 | 0.18 | 7.03 | 23.5 | 0.41 | 820 | 280 | 8.8 | 0.004 u | 0.79 | 120 |
| 08/02/2013 | ND | ND | 1,256 | 0.46 | 6.88 | 23.43 | 0.2 | 800 | 290 | 6.8 | 0.004 u | 0.72 | 120 |
| 09/05/2013 | 87.92 | 43.04 | 1,001 | 0.61 | 6.98 | 23.45 | 1.17 | 760 | 290 | 7.6 | 0.004 u | 0.71 | 110 |
| 10/02/2013 | 87.39 | 43.57 | 1,566 | 0.32 | 6.86 | 23.53 | 12.6 | 1,000 | 350 | 7.4 j3 | 0.004 u | 0.79 | 120 |
| 11/06/2013 | 97.90 | 33.06 | 2,145 | 0.16 | 6.69 | 23.36 | 0.8 | 1,200 | 450 | 12 | 0.004 u | 0.64 | 170 |
| 12/05/2013 | 98.50 | 32.46 | 2,615 | 0.39 | 6.74 | 23.45 | 0.58 | 1,200 | 580 | 16 | 0.004 u | 0.65 | 200 |
| 01/03/2014 | 99.02 | 31.94 | 2,220 | 0.84 | 6.83 | 22.88 | 1.64 | 1,200 | 580 | 25 | 0.004 u | 0.67 | 230 j3 |
| 02/06/2014 | 99.50 | 31.46 | 2,452 | 0.13 | 6.69 | 23.13 | 2.07 | 1,300 | 580 | 23 j3 | 0.004 u | 0.71 | 210 |
| 03/04/2014 | 97.91 | 33.05 | 2,173 | 0.24 | 6.67 | 23.4 | 1.33 | 1,500 | 580 | 22 | 0.004 u | 0.74 | 220 |
| 04/03/2014 | 96.22 | 34.74 | 1,992 | 0.22 | 6.74 | 23.35 | 1.33 | 1,400 | 590 | 27 | 0.0013 u | 0.71 | 220 |
| 05/06/2014 | 100.22 | 30.74 | 2,247 | 0.46 | 6.81 | 23.5 | 1.22 | 1,400 | 590 | 24 | 0.004 u | 0.64 | 230 |
| 06/03/2014 | 102.58 | 28.38 | 2,771 | 0.34 | 6.45 | 23.46 | 0.96 | 1,400 | 570 | 27 | 0.004 u | 0.73 | 220 |
| 07/03/2014 | 97.64 | 33.32 | 2,388 | 0.29 | 6.86 | 23.54 | 1.34 | 1,300 | 570 | 24 | 0.004 u | 0.72 | 220 |
| 08/12/2014 | 90.40 | 40.56 | 2,375 | 0.28 | 6.87 | 23.55 | 0.81 | 1,300 | 540 | 23 | 0.004 u | 0.62 | 200 j3 |
| 09/05/2014 | 90.75 | 40.21 | 3,156 | 0.46 | 6.74 | 23.61 | 1.96 | 1,400 | 510 | 20 | 0.004 u | 0.65 | 210 |
| 10/07/2014 | 88.72 | 42.24 | 2,300 | 0.18 | 6.78 | 23.59 | 0.79 | 1,300 | 530 | 23 | 0.004 u | 0.61 | 200 |
| 11/04/2014 | 95.50 | 35.46 | 2,511 | 0.46 | 6.64 | 23.46 | 1.83 | 1,400 | 460 | 20 | 0.0016 u | 0.68 | 200 |
| 12/03/2014 | 94.56 | 36.40 | 2,675 | 0.34 | 6.67 | 23.47 | 1.3 | 1,300 | 500 | 18 | 0.0016 u | 0.58 | 160 |
| 01/08/2015 | 93.10 | 37.86 | 2,637 | 0.98 | 6.74 | 23.03 | 1.69 | 1,300 | 450 | 18 | 0.0016 u | 0.64 | 190 |
| 02/04/2015 | 94.16 | 36.80 | 2,540 | 0.57 | 6.71 | 23.27 | 2.29 | 1,300 | 410 | 17 | 0.0016 u | 0.62 | 190 |
| 03/04/2015 | 93.21 | 37.75 | 2,486 | 0.57 | 6.87 | 23.5 | 0.66 | 1,300 | 450 | 21 | 0.0021 u | 0.65 | 190 |

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

ND = No Data - water levels collected during quarterly ADR.

1,100 EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-76

| Date | Depth to Water (feet) | Water Table Elevation (NGVD) | conductivity (umhos/cm) (field) | dissolved oxygen (mg/l) (field) | pH (field) | temperature (°C) (field) | turbidity (NTU) (field) | total dissolved solids (mg/l) | chloride (mg/l) | ammonia nitrogen (mg/l as N) | arsenic (mg/l) | iron (mg/l) | sodium (mg/l) |
|------------|--------------------------|---------------------------------|------------------------------------|------------------------------------|------------|-----------------------------|----------------------------|----------------------------------|--------------------|---------------------------------|-------------------|-------------|---------------|
| 05/02/2013 | 89.83 | 21.38 | 450 | 0.22 | 7.63 | 22.81 | 36.9 | 220 | 13 | 0.4 | 0.004 u | 1.1 | 20 |
| 06/04/2013 | 89.91 | 21.30 | 401 | 0.27 | 7.86 | 22.9 | 16.2 | 240 | 13 | 0.4 | 0.004 u | 0.66 | 22 |
| 07/03/2013 | 79.04 | 32.17 | 398 | 0.19 | 8 | 23 | 28.6 | 210 | 12 | 0.34 | 0.004 u | 0.99 | 22 |
| 08/02/2013 | ND | ND | 343 | 0.22 | 7.57 | 23.02 | 42.2 | 230 | 13 | 0.26 | 0.004 u | 1.6 | 21 |
| 09/05/2013 | 68.22 | 42.99 | 278 | 0.21 | 7.74 | 22.97 | 46 | 240 | 12 | 0.32 | 0.004 u | 1.5 | 20 |
| 10/02/2013 | 67.69 | 43.46 | 399 | 0.22 | 7.61 | 22.99 | 61.9 | 120 | 13 | 0.38 | 0.004 u | 1.7 | 20 |
| 11/06/2013 | 78.19 | 33.02 | 446 | 0.64 | 7.54 | 22.84 | 29 | 260 | 13 | 0.36 | 0.004 u | 1.1 | 20 |
| 12/05/2013 | 78.80 | 32.41 | 478 | 0.48 | 7.45 | 22.9 | 19.2 | 240 | 12 | 0.35 | 0.004 u | 0.96 | 20 |
| 01/03/2014 | 79.38 | 31.83 | 398 | 0.58 | 7.67 | 22.35 | 19.4 | 190 | 12 | 0.23 j3 | 0.004 u | 1.1 | 20 |
| 02/06/2014 | 79.87 | 31.34 | 446 | 0.14 | 7.54 | 22.57 | 18.1 | 230 | 12 | 0.45 | 0.004 u | 0.96 | 20 |
| 03/04/2014 | 78.20 | 33.01 | 434 | 0.18 | 7.36 | 22.7 | 26.2 | 230 | 12 | 0.33 | 0.004 u | 0.69 | 20 |
| 04/03/2014 | 76.54 | 34.67 | 441 | 0.18 | 7.46 | 22.82 | 24.7 | 210 | 12 | 0.6 | 0.0013 u | 0.34 | 19 |
| 05/06/2014 | 80.52 | 30.69 | 427 | 0.24 | 7.56 | 22.85 | 12.7 | 220 | 12 | 0.38 | 0.004 u | 0.65 | 21 |
| 06/03/2014 | 82.85 | 28.36 | 423 | 0.3 | 7.47 | 22.82 | 16.8 | 240 | 12 | 0.47 | 0.004 u | 0.64 | 20 |
| 07/03/2014 | 77.98 | 33.23 | 421 | 0.3 | 7.46 | 22.83 | 19.5 | 230 | 12 | 0.49 | 0.004 u | 0.2 | 20 |
| 08/13/2014 | 70.72 | 40.49 | 445 | 0.25 | 7.37 | 22.81 | 17 | 240 | 12 | 0.5 | 0.004 u | 0.7 | 20 |
| 09/05/2014 | 71.05 | 40.16 | 596 | 0.2 | 7.28 | 22.92 | 19 | 240 | 12 | 0.72 | 0.004 u | 0.61 | 20 |
| 10/07/2014 | 69.03 | 42.18 | 432 | 0.34 | 7.37 | 22.89 | 17.9 | 260 | 12 | 0.78 | 0.004 u | 0.77 | 19 |
| 11/04/2014 | 75.84 | 35.37 | 502 | 0.27 | 7.19 | 22.9 | 16.4 | 280 | 11 | 0.37 | 0.0016 u | 0.27 | 21 |
| 12/03/2014 | 74.87 | 36.34 | 517 | 0.27 | 7.34 | 22.82 | 18.7 | 250 | 8 | 0.34 | 0.0016 u | 0.21 | 19 |
| 01/08/2015 | 73.38 | 37.83 | 516 | 0.54 | 7.4 | 22.49 | 0.84 | 270 | 8.4 | 0.18 | 0.0016 u | 0.14 | 22 |
| 02/04/2015 | 74.46 | 36.75 | 525 | 0.27 | 7.44 | 22.65 | 0.67 | 280 | 9.8 | 0.34 | 0.0016 u | 0.13 | 22 |
| 03/04/2015 | 73.50 | 37.71 | 500 | 0.39 | 7.58 | 22.99 | 0.68 | 320 | 13 | 0.33 | 0.0021 u | 0.095 i | 21 |

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

ND = No Data - water levels collected during quarterly ADR.

1.1 EXCEEDS STANDARD

**Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-77**

| Date | Depth to Water (feet) | Water Table Elevation (NGVD) | conductivity (umhos/cm) (field) | dissolved oxygen (mg/l) (field) | pH (field) | temperature (°C) (field) | turbidity (NTU) (field) | total dissolved solids (mg/l) | chloride (mg/l) | ammonia nitrogen (mg/l as N) | arsenic (mg/l) | iron (mg/l) | sodium (mg/l) |
|------------|--------------------------|---------------------------------|------------------------------------|------------------------------------|------------|-----------------------------|----------------------------|----------------------------------|--------------------|---------------------------------|-------------------|-------------|---------------|
| 05/02/2013 | 98.31 | 21.57 | 440 | 0.57 | 7.39 | 23.39 | 59.4 | 190 | 9.4 | 0.39 | 0.004 u | 1.2 | 17 |
| 06/04/2013 | 98.38 | 21.50 | 384 | 0.56 | 7.86 | 23.59 | 35.4 | 230 | 8.9 | 0.42 | 0.004 u | 0.89 | 18 |
| 07/03/2013 | 87.48 | 32.40 | 388 | 0.41 | 7.8 | 23.7 | 38.4 | 210 | 8.9 | 0.4 | 0.004 u | 1.1 | 17 |
| 08/02/2013 | ND | ND | 334 | 0.47 | 7.44 | 23.66 | 42.9 | 230 | 9.2 | 0.36 | 0.004 u | 1.1 | 18 |
| 09/05/2013 | 76.66 | 43.22 | 269 | 0.83 | 7.61 | 23.68 | 47.1 | 230 | 8.9 | 0.35 | 0.004 u | 0.96 | 16 |
| 10/02/2013 | 76.14 | 43.72 | 383 | 0.69 | 7.5 | 23.59 | 52.7 | 240 | 9.1 | 0.39 | 0.004 u | 1.3 | 17 |
| 11/06/2013 | 86.68 | 33.20 | 423 | 0.74 | 7.43 | 23.51 | 25.1 | 230 | 9.7 | 0.36 j3 | 0.004 u | 0.68 | 17 |
| 12/05/2013 | 87.29 | 32.59 | 451 | 0.9 | 7.44 | 23.6 | 16.4 | 220 | 9 | 0.36 | 0.004 u | 0.58 | 17 |
| 01/03/2014 | 87.87 | 32.01 | 371 | 0.85 | 7.65 | 23.18 | 16.5 | 160 | 9.1 | 0.39 | 0.004 u | 0.63 | 17 |
| 02/06/2014 | 88.30 | 31.58 | 424 | 0.09 | 7.53 | 23.39 | 4.62 | 250 | 9.2 | 0.27 | 0.004 u | 0.26 | 16 |
| 03/04/2014 | 86.70 | 33.18 | 418 | 0.36 | 7.34 | 23.38 | 1.12 | 230 | 9.3 | 0.32 | 0.004 u | 0.21 | 16 |
| 04/03/2014 | 85.02 | 34.86 | 430 | 0.28 | 7.45 | 23.47 | 1.97 | 220 | 9.4 | 0.61 | 0.0013 u | 0.18 | 15 |
| 05/06/2014 | 89.02 | 30.86 | 414 | 0.34 | 7.52 | 23.47 | 1.01 | 220 | 9.7 | 0.59 | 0.004 u | 0.19 | 17 |
| 06/03/2014 | 91.34 | 28.54 | 464 | 0.27 | 7.47 | 23.49 | 0.88 | 230 | 9.7 | 0.75 | 0.004 u | 0.19 | 17 |
| 07/03/2014 | 86.40 | 33.48 | 409 | 0.34 | 7.44 | 23.65 | 1.56 | 230 | 9.6 | 0.48 | 0.004 u | 0.14 i | 17 |
| 08/13/2014 | 79.19 | 40.69 | 436 | 0.36 | 7.39 | 23.76 | 0.61 | 260 | 9.5 | 0.49 | 0.004 u | 0.16 i | 16 |
| 09/05/2014 | 79.52 | 40.36 | 578 | 0.37 | 7.31 | 23.62 | 1.02 | 240 | 12 | 0.72 | 0.004 u | 0.61 | 20 |
| 10/07/2014 | 77.55 | 42.33 | 416 | 0.22 | 7.36 | 23.64 | 0.71 | 240 | 9.3 | 1.4 j3 | 0.004 u | 0.16 i | 16 |
| 11/04/2014 | 84.27 | 35.61 | 469 | 0.27 | 7.26 | 23.66 | 1.28 | 280 | 10 | 0.38 | 0.0016 u | 0.16 | 17 |
| 12/03/2014 | 83.33 | 36.55 | 490 | 0.46 | 7.24 | 23.43 | 0.5 | 270 | 12 | 0.38 | 0.0016 u | 0.15 | 16 |
| 01/08/2015 | 81.86 | 38.02 | 504 | 0.5 | 7.41 | 23.12 | 0.42 | 250 | 11 | 0.42 | 0.0016 u | 0.14 | 18 |
| 02/04/2015 | 82.94 | 36.94 | 492 | 0.2 | 7.39 | 23.2 | 0.51 | 280 | 7 j3 | 0.39 | 0.0016 u | 0.16 | 18 |
| 03/04/2015 | 81.99 | 37.89 | 490 | 0.49 | 7.56 | 23.52 | 0.63 | 330 | 7.6 | 0.37 | 0.0021 u | 0.11 i | 18 |

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

ND = No Data - water levels collected during quarterly ADR.

1.2 EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-78

| Date | Depth to Water (feet) | Water Table Elevation (NGVD) | conductivity (umhos/cm) (field) | dissolved oxygen (mg/l) (field) | pH (field) | temperature (°C) (field) | turbidity (NTU) (field) | total dissolved solids (mg/l) | chloride (mg/l) | ammonia nitrogen (mg/l as N) | arsenic (mg/l) | iron (mg/l) | sodium (mg/l) |
|------------|--------------------------|---------------------------------|------------------------------------|------------------------------------|------------|-----------------------------|----------------------------|----------------------------------|--------------------|---------------------------------|-------------------|-------------|---------------|
| 07/02/2014 | ND | ND | 363 | 0.41 | 9.08 | 23.89 | 19.3 | 210 | 43 | 0.44 | 0.0019 i | 1 | 38 |
| 08/12/2014 | 75.51 | 45.24 | 467 | 0.4 | 9.55 | 23.56 | 7.37 | 240 | 38 | 0.42 j3 | 0.004 u | 0.48 | 34 |
| 09/05/2014 | 75.12 | 45.63 | 680 | 0.15 | 8.18 | 23.46 | 3.86 | 270 | 36 | 0.40 | 0.004 u | 0.27 | 35 |
| 10/07/2014 | 73.49 | 47.26 | 508 | 0.30 | 8.39 | 23.35 | 1.12 | 270 | 34 | 0.44 | 0.004 u | 0.23 | 34 |
| 11/04/2014 | 77.73 | 43.02 | 555 | 0.44 | 7.92 | 23.33 | 1.58 | 320 | 37 | 0.3 | 0.0016 u | 0.27 | 34 |
| 12/03/2014 | 79.04 | 41.71 | 584 | 0.49 | 7.86 | 23.3 | 0.5 | 290 | 29 | 0.31 | 0.0016 u | 0.25 | 31 |
| 01/08/2015 | 76.39 | 44.36 | 595 | 0.76 | 7.98 | 22.81 | 1.25 | 300 | 31 | 0.34 | 0.0016 u | 0.24 | 36 |
| 02/04/2015 | 76.21 | 44.54 | 601 | 0.32 | 8.25 | 22.95 | 0.96 | 310 | 29 | 0.32 | 0.0016 u | 0.2 | 35 |
| 03/04/2015 | 75.16 | 45.59 | 605 | 0.46 | 8.23 | 23.5 | 0.62 | 410 | 28 | 0.33 | 0.0021 u | 0.24 | 36 |

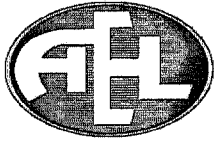
u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

ND = No Data - survey data was not complete.

1 EXCEEDS STANDARD



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April 16, 2015

David Adams
Hillsborough Co Public Utilities
332 North Falkenburg Rd
Tampa, FL 33619

RE: Workorder: T1504417 Southeast County Landfill

Dear David Adams:

Enclosed are the analytical results for sample(s) received by the laboratory between Wednesday, April 01, 2015 and Thursday, April 02, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heidi Brooks
HBrooks@AELLab.com

Enclosures

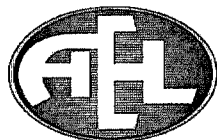
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SAMPLE SUMMARY

Workorder: T1504417 Southeast County Landfill

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------|--------|----------------|----------------|
| T1504417001 | Field Blank | Water | 4/1/2015 10:40 | 4/1/2015 14:10 |
| T1504417002 | TH-78 | Water | 4/1/2015 11:41 | 4/1/2015 14:10 |
| T1504417003 | TH-72 | Water | 4/2/2015 10:48 | 4/2/2015 15:20 |
| T1504417004 | TH-76 | Water | 4/2/2015 12:29 | 4/2/2015 15:20 |
| T1504417005 | TH-77 | Water | 4/2/2015 13:27 | 4/2/2015 15:20 |
| T1504417006 | Duplicate | Water | 4/2/2015 00:00 | 4/2/2015 15:20 |

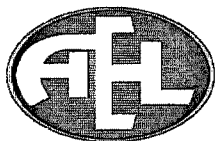
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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417001

Date Received: 04/01/15 14:10 Matrix: Water

Sample ID: Field Blank

Date Collected: 04/01/15 10:40

Sample Description:

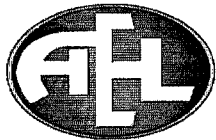
Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|----------------------------------------------|---------|------|----------------------------------|------|-----------------|-----------------|----------------|-----|
| METALS | | | | | | | | |
| Analysis Desc: SW846 6010B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Water | | | Analytical Method: SW-846 6010 | | | | | |
| Iron | 38 | U | ug/L | 1 | 200 | 38 | 4/7/2015 16:04 | J |
| Sodium | 0.026 | U | mg/L | 1 | 0.20 | 0.026 | 4/7/2015 16:04 | J |
| Analysis Desc: SW846 6020B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Total | | | Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 0.15 | U | ug/L | 1 | 2.0 | 0.15 | 4/8/2015 20:09 | J |
| WET CHEMISTRY | | | | | | | | |
| Analysis Desc: Ammonia, E350.1, Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 0.02 | U | mg/L | 1 | 0.10 | 0.02 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540 C | | | | | |
| Total Dissolved Solids | 12 | U | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |
| Analysis Desc: Chlorides, SM4500-Cl-E, Water | | | Analytical Method: SM 4500-Cl-E | | | | | |
| Chloride | 1.1 | U | mg/L | 1 | 5.0 | 1.1 | 4/2/2015 14:31 | T |

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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417002
Sample ID: TH-78

Date Received: 04/01/15 14:10 Matrix: Water
Date Collected: 04/01/15 11:41

Sample Description:

Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|-------------------------------------------------|---------|------|--------------------------------------------------------------------|------|-----------------|-----------------|----------------|-----|
| FIELD PARAMETERS | | | | | | | | |
| Analysis Desc: Data entry of field measurements | | | Analytical Method: Field Measurements | | | | | |
| Conductivity | 584 | | umhos/cm | 1 | | | 4/1/2015 11:41 | |
| Dissolved Oxygen | 0.19 | | mg/L | 1 | | | 4/1/2015 11:41 | |
| Temperature | 23.3 | | °C | 1 | | | 4/1/2015 11:41 | |
| Turbidity | 1.27 | | NTU | 1 | | | 4/1/2015 11:41 | |
| pH | 7.63 | | SU | 1 | | | 4/1/2015 11:41 | |
| METALS | | | | | | | | |
| Analysis Desc: Chlorides, SM4500-Cl-E, Water | | | Analytical Method: SM 4500-Cl-E | | | | | |
| Chloride | 33 | | mg/L | 1 | 5.0 | 1.1 | 4/2/2015 14:31 | T |
| Analysis Desc: SW846 6010B Analysis, Water | | | Preparation Method: SW-846 3010A Analytical Method: SW-846 6010 | | | | | |
| Iron | 240 | | ug/L | 1 | 200 | 38 | 4/7/2015 16:09 | J |
| Sodium | 31 | | mg/L | 1 | 0.20 | 0.026 | 4/7/2015 16:09 | J |
| Analysis Desc: SW846 6020B Analysis, Total | | | Preparation Method: SW-846 3010A Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 0.22 | I | ug/L | 1 | 2.0 | 0.15 | 4/8/2015 20:12 | J |
| METALS | | | | | | | | |
| Analysis Desc: Ammonia, E350.1, Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 0.32 | | mg/L | 1 | 0.10 | 0.02 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540 C | | | | | |
| Total Dissolved Solids | 320 | | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |

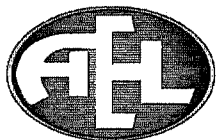
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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417003

Date Received: 04/02/15 15:20 Matrix: Water

Sample ID: TH-72

Date Collected: 04/02/15 10:48

Sample Description:

Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|-------------------------------------------------|---------|------|---------------------------------------|------|-----------------|-----------------|-----------------|-----|
| FIELD PARAMETERS | | | | | | | | |
| Analysis Desc: Data entry of field measurements | | | Analytical Method: Field Measurements | | | | | |
| Conductivity | 2459 | | umhos/cm | 1 | | | 4/2/2015 10:48 | |
| Dissolved Oxygen | 0.4 | | mg/L | 1 | | | 4/2/2015 10:48 | |
| Temperature | 23.59 | | °C | 1 | | | 4/2/2015 10:48 | |
| Turbidity | 1.02 | | NTU | 1 | | | 4/2/2015 10:48 | |
| pH | 6.67 | | SU | 1 | | | 4/2/2015 10:48 | |
| METALS | | | | | | | | |
| Analysis Desc: SW846 6010B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Water | | | Analytical Method: SW-846 6010 | | | | | |
| Iron | 610 | | ug/L | 1 | 200 | 38 | 4/14/2015 13:39 | J |
| Sodium | 170 | | mg/L | 1 | 0.20 | 0.026 | 4/14/2015 13:39 | J |
| Analysis Desc: SW846 6020B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Total | | | Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 0.31 | I | ug/L | 1 | 2.0 | 0.15 | 4/8/2015 20:16 | J |
| WET CHEMISTRY | | | | | | | | |
| Analysis Desc: Ammonia, E350.1 Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 19 | | mg/L | 10 | 1.00 | 0.25 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540 C | | | | | |
| Total Dissolved Solids | 1300 | | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |
| Analysis Desc: Chlorides, SM4500-Cl-E, Water | | | Analytical Method: SM 4500-Cl-E | | | | | |
| Chloride | 810 | | mg/L | 10 | 50 | 11 | 4/6/2015 15:36 | T |

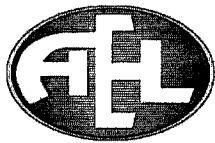
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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417004
Sample ID: TH-76

Date Received: 04/02/15 15:20 Matrix: Water
Date Collected: 04/02/15 12:29

Sample Description:

Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|-------------------------------------------------|---------|------|---------------------------------------|------|-----------------|-----------------|-----------------|-----|
| FIELD PARAMETERS | | | | | | | | |
| Analysis Desc: Data entry of field measurements | | | Analytical Method: Field Measurements | | | | | |
| Conductivity | 508 | | umhos/cm | 1 | | | 4/2/2015 12:29 | |
| Dissolved Oxygen | 0.12 | | mg/L | 1 | | | 4/2/2015 12:29 | |
| Temperature | 22.94 | | °C | 1 | | | 4/2/2015 12:29 | |
| Turbidity | 0.96 | | NTU | 1 | | | 4/2/2015 12:29 | |
| pH | 7.28 | | SU | 1 | | | 4/2/2015 12:29 | |
| METALS | | | | | | | | |
| Analysis Desc: SW846 6010B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Water | | | Analytical Method: SW-846 6010 | | | | | |
| Iron | 120 | I | ug/L | 1 | 200 | 38 | 4/14/2015 13:43 | J |
| Sodium | 19 | | mg/L | 1 | 0.20 | 0.026 | 4/14/2015 13:43 | J |
| Analysis Desc: SW846 6020B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Total | | | Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 5.9 | | ug/L | 1 | 2.0 | 0.15 | 4/10/2015 18:09 | J |
| WET CHEMISTRY | | | | | | | | |
| Analysis Desc: Ammonia, E350.1, Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 0.31 | | mg/L | 1 | 0.10 | 0.02 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540 C | | | | | |
| Total Dissolved Solids | 270 | | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |
| Analysis Desc: Chlorides, SM4500-Cl-E, Water | | | Analytical Method: SM 4500-Cl-E | | | | | |
| Chloride | 9.7 | | mg/L | 1 | 5.0 | 1.1 | 4/6/2015 15:36 | T |

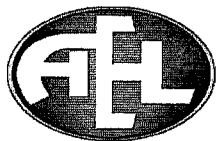
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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417005

Date Received: 04/02/15 15:20 Matrix: Water

Sample ID: TH-77

Date Collected: 04/02/15 13:27

Sample Description:

Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|-------------------------------------------------|---------|------|---------------------------------------|------|-----------------|-----------------|-----------------|-----|
| FIELD PARAMETERS | | | | | | | | |
| Analysis Desc: Data entry of field measurements | | | Analytical Method: Field Measurements | | | | | |
| Conductivity | 495 | | umhos/cm | 1 | | | 4/2/2015 13:27 | |
| Dissolved Oxygen | 0.14 | | mg/L | 1 | | | 4/2/2015 13:27 | |
| Temperature | 23.62 | | °C | 1 | | | 4/2/2015 13:27 | |
| Turbidity | 0.47 | | NTU | 1 | | | 4/2/2015 13:27 | |
| pH | 7.27 | | SU | 1 | | | 4/2/2015 13:27 | |
| METALS | | | | | | | | |
| Analysis Desc: SW846 6010B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Water | | | Analytical Method: SW-846 6010 | | | | | |
| Iron | 130 | I | ug/L | 1 | 200 | 38 | 4/14/2015 13:48 | J |
| Sodium | 15 | | mg/L | 1 | 0.20 | 0.026 | 4/14/2015 13:48 | J |
| Analysis Desc: SW846 6020B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Total | | | Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 0.15 | U | ug/L | 1 | 2.0 | 0.15 | 4/10/2015 18:12 | J |
| WET CHEMISTRY | | | | | | | | |
| Analysis Desc: Ammonia, E350.1, Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 0.32 | | mg/L | 1 | 0.10 | 0.02 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540 C | | | | | |
| Total Dissolved Solids | 260 | | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |
| Analysis Desc: Chlorides, SM4500-Cl-E, Water | | | Analytical Method: SM 4500-Cl-E | | | | | |
| Chloride | 8.6 | | mg/L | 1 | 5.0 | 1.1 | 4/6/2015 15:36 | T |

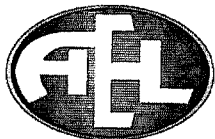
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ANALYTICAL RESULTS

Workorder: T1504417 Southeast County Landfill

Lab ID: T1504417006

Date Received: 04/02/15 15:20 Matrix: Water

Sample ID: Duplicate

Date Collected: 04/02/15 00:00

Sample Description:

Location:

| Parameters | Results | Qual | Units | DF | Adjusted PQL | Adjusted MDL | Analyzed | Lab |
|----------------------------------------------|---------|------|----------------------------------|------|-----------------|-----------------|-----------------|-----|
| METALS | | | | | | | | |
| Analysis Desc: SW846 6010B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Water | | | Analytical Method: SW-846 6010 | | | | | |
| Iron | 130 | I | ug/L | 1 | 200 | 38 | 4/14/2015 13:53 | J |
| Sodium | 16 | | mg/L | 1 | 0.20 | 0.026 | 4/14/2015 13:53 | J |
| Analysis Desc: SW846 6020B | | | Preparation Method: SW-846 3010A | | | | | |
| Analysis, Total | | | Analytical Method: SW-846 6020 | | | | | |
| Arsenic | 0.15 | U | ug/L | 1 | 2.0 | 0.15 | 4/10/2015 18:16 | J |
| WET CHEMISTRY | | | | | | | | |
| Analysis Desc: Ammonia, E350.1, Water | | | Analytical Method: EPA 350.1 | | | | | |
| Ammonia (N) | 0.38 | | mg/L | 1 | 0.10 | 0.02 | 4/3/2015 12:51 | T |
| Analysis Desc: Tot Dissolved Solids, SM2540C | | | Analytical Method: SM 2540.C | | | | | |
| Total Dissolved Solids | 270 | | mg/L | 1.25 | 12 | 12 | 4/3/2015 09:04 | T |
| Analysis Desc: Chlorides, SM4500-Cl- | | | Analytical Method: SM 4500-Cl-E | | | | | |
| E, Water | | | | | | | | |
| Chloride | 7.7 | | mg/L | 1 | 5.0 | 1.1 | 4/6/2015 15:36 | T |

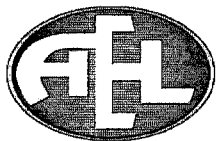
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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1504417 Southeast County Landfill

PARAMETER QUALIFIERS

- U 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.

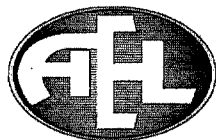
LAB QUALIFIERS

- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^A Not Certified

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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

QC Batch: WCA/2505 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Prepared:
Associated Lab Samples: T1504417001, T1504417002

METHOD BLANK: 1715691

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|------------------------|-------|--------------|----------------------------|
| WET CHEMISTRY Chloride | mg/L | 1.1 | 1.1 U |

LABORATORY CONTROL SAMPLE: 1715692

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits Qualifiers |
|------------------------|-------|-------------|------------|-----------|-------------------------|
| WET CHEMISTRY Chloride | mg/L | 40 | 40 | 100 | 90-110 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1715693 1715694 Original: T1504417002

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Max RPD Qualifiers |
|------------------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|--------------------|
| WET CHEMISTRY Chloride | mg/L | 33 | 40 | 74 | 75 | 102 | 104 | 90-110 | 1 | 10 |

QC Batch: WCA/2517 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: T1504417001, T1504417002, T1504417003, T1504417004, T1504417005, T1504417006

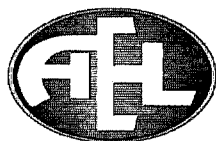
METHOD BLANK: 1716173

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|--------------------------------------|-------|--------------|----------------------------|
| WET CHEMISTRY Total Dissolved Solids | mg/L | 10 | 10 U |

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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

LABORATORY CONTROL SAMPLE: 1716174

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| WET CHEMISTRY | | | | | | |
| Total Dissolved Solids | mg/L | 660 | 650 | 99 | 75-125 | |

SAMPLE DUPLICATE: 1716175

Original: T1504391001

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | Qualifiers |
|-------------------------|---------------------------------------|--------------------|---------------|-----|------------|------------|
| WET CHEMISTRY | | | | | | |
| Total Dissolved Solids | mg/L | 160 | 160 | 2 | 10 | |
| QC Batch: | WCA1/2525 | | | | | |
| QC Batch Method: | EPA 350.1 | | | | | |
| Associated Lab Samples: | T1504417001, T1504417002, T1504417003 | | | | | |

METHOD BLANK: 1716798

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------|-------|-----------------|--------------------|------------|
| WET CHEMISTRY | | | | |
| Ammonia (N) | mg/L | 0.02 | 0.02 | U |

LABORATORY CONTROL SAMPLE: 1716799

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------|-------|----------------|---------------|--------------|-----------------|------------|
| WET CHEMISTRY | | | | | | |
| Ammonia (N) | mg/L | 1 | 1.1 | 110 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716800

1716801

Original: T1504258002

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|---------------|-------|--------------------|----------------|--------------|---------------|-------------|--------------|----------------|------------|------------|
| WET CHEMISTRY | | | | | | | | | | |
| Ammonia (N) | mg/L | 0.03 | 1 | 1.0 | 1.0 | 100 | 97 | 90-110 | 2 | 10 |

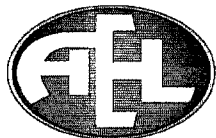
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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

QC Batch: WCAI/2526 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: T1504417004, T1504417005, T1504417006

METHOD BLANK: 1716802

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|---------------------------|-------|--------------|----------------------------|
| WET CHEMISTRY Ammonia (N) | mg/L | 0.02 | 0.02 U |

LABORATORY CONTROL SAMPLE: 1716803

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits Qualifiers |
|---------------------------|-------|-------------|------------|-----------|-------------------------|
| WET CHEMISTRY Ammonia (N) | mg/L | 1 | 1.1 | 110 | 90-110 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1716804 1716805 Original: T1504417004

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Max RPD Qualifiers |
|---------------------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|--------------------|
| WET CHEMISTRY Ammonia (N) | mg/L | 0.31 | 1 | 1.4 | 1.4 | 107 | 106 | 90-110 | 1 | 10 |

QC Batch: DGMJ/1362 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/06/2015 09:12
Associated Lab Samples: T1504417001, T1504417002

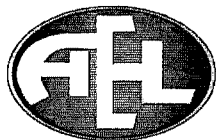
METHOD BLANK: 1717376

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|-------------|-------|--------------|----------------------------|
| METALS Iron | ug/L | 38 | 38 U |
| Sodium | mg/L | 0.026 | 0.026 U |

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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

LABORATORY CONTROL SAMPLE & LCSD: 1717377 1717378

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------|------------|-------------|-----------|------------|-------------|-----|---------|------------|
| METALS | | | | | | | | | | |
| Iron | ug/L | 25000 | 25000 | 25000 | 98 | 98 | 80-120 | 1 | 20 | |
| Sodium | mg/L | 50 | 50 | 50 | 99 | 99 | 80-120 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1717379 1717380 Original: T1503355033

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|-----------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| METALS | | | | | | | | | | |
| Iron | ug/L | 43 | 25000 | 26000 | 26000 | 104 | 102 | 75-125 | 1 | 20 |
| Sodium | mg/L | 0 | 50 | 170 | 170 | 332 | 331 | 75-125 | 0 | 20 |

QC Batch: WCAI/2550

Analysis Method: SM 4500-Cl-E

QC Batch Method: SM 4500-Cl-E

Prepared:

Associated Lab Samples: T1504417003, T1504417004, T1504417005, T1504417006

METHOD BLANK: 1717852

| Parameter | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------|-------|--------------|-----------------|------------|
| WET CHEMISTRY | | | | |
| Chloride | mg/L | 1.1 | 1.1 U | |

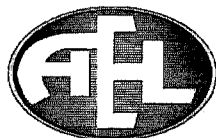
LABORATORY CONTROL SAMPLE: 1717853

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------|-------|-------------|------------|-----------|--------------|------------|
| WET CHEMISTRY | | | | | | |
| Chloride | mg/L | 40 | 38 | 95 | 90-110 | |

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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1717854 1717855 Original: T1504417005

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|------------------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| WET CHEMISTRY Chloride | mg/L | 8.6 | 40 | 46 | 48 | 93 | 99 | 90-110 | 5 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1717856 1717857 Original: T1504417006

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|------------------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| WET CHEMISTRY Chloride | mg/L | 7.7 | 40 | 45 | 48 | 94 | 101 | 90-110 | 6 | 10 |

QC Batch: DGMj/1366

Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A

Prepared: 04/08/2015 08:30

Associated Lab Samples: T1504417001, T1504417002, T1504417003

METHOD BLANK: 1719673

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|----------------|-------|--------------|----------------------------|
| METALS Arsenic | ug/L | 0.077 | 0.077 U |

LABORATORY CONTROL SAMPLE & LCSD: 1719674 1719675

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|----------------|-------|-------------|------------|-------------|-----------|------------|-------------|-----|---------|------------|
| METALS Arsenic | ug/L | 100 | 100 | 110 | 103 | 106 | 80-120 | 3 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1719676 1719677 Original: G1502382001

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|----------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| METALS Arsenic | ug/L | 0.061 | 200 | 200 | 210 | 101 | 104 | 75-125 | 3 | 20 |

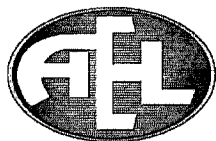
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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

QC Batch: DGMJ/1382 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 04/10/2015 09:00
Associated Lab Samples: T1504417004, T1504417005, T1504417006

METHOD BLANK: 1722498

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|-----------|-------|--------------|----------------------------|
| METALS | | | |
| Arsenic | ug/L | 0.077 | 0.077 U |

LABORATORY CONTROL SAMPLE & LCSD: 1722499 1722500

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------|------------|-------------|-----------|------------|-------------|-----|---------|------------|
| METALS | | | | | | | | | | |
| Arsenic | ug/L | 100 | 98 | 99 | 98 | 99 | 80-120 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722518 1722519 Original: T1504729002

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|-----------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| METALS | | | | | | | | | | |
| Arsenic | ug/L | 3.5 | 200 | 200 | 190 | 98 | 95 | 75-125 | 3 | 20 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724953 1724954 Original: T1503355039

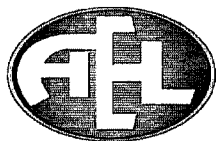
| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|-----------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| METALS | | | | | | | | | | |
| Arsenic | ug/L | 3.5 | 200 | 200 | 190 | 98 | 95 | 75-125 | 3 | 20 |

QC Batch: DGMJ/1391 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/13/2015 09:59
Associated Lab Samples: T1504417003, T1504417004, T1504417005, T1504417006

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QUALITY CONTROL DATA

Workorder: T1504417 Southeast County Landfill

METHOD BLANK: 1723804

| Parameter | Units | Blank Result | Reporting Limit Qualifiers |
|---------------|-------|--------------|----------------------------|
| METALS | | | |
| Iron | ug/L | 38 | 38 U |
| Sodium | mg/L | 0.026 | 0.026 U |

LABORATORY CONTROL SAMPLE & LCSD: 1723805 1723806

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limit | RPD | Max RPD | Qualifiers |
|---------------|-------|-------------|------------|-------------|-----------|------------|-------------|-----|---------|------------|
| METALS | | | | | | | | | | |
| Iron | ug/L | 25000 | 25000 | 25000 | 98 | 99 | 80-120 | 0 | 20 | |
| Sodium | mg/L | 50 | 49 | 49 | 97 | 97 | 80-120 | 0 | 20 | |

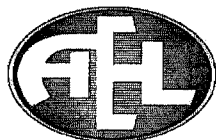
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723807 1723808 Original: T1503355043

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | Max RPD | Qualifiers |
|---------------|-------|-----------------|-------------|-----------|------------|----------|-----------|-------------|---------|------------|
| METALS | | | | | | | | | | |
| Iron | ug/L | 27 | 25000 | 26000 | 26000 | 102 | 101 | 75-125 | 0 | 20 |
| Sodium | mg/L | 0 | 50 | 150 | 150 | 294 | 293 | 75-125 | 0 | 20 |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1504417 Southeast County Landfill

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-------------|-------------|--------------|------------|-----------------|----------------|
| T1504417001 | Field Blank | | | SM 4500-CI-E | WCAI/2505 |
| T1504417002 | TH-78 | | | SM 4500-CI-E | WCAI/2505 |
| T1504417001 | Field Blank | | | SM 2540 C | WCAI/2517 |
| T1504417002 | TH-78 | | | SM 2540 C | WCAI/2517 |
| T1504417003 | TH-72 | | | SM 2540 C | WCAI/2517 |
| T1504417004 | TH-76 | | | SM 2540 C | WCAI/2517 |
| T1504417005 | TH-77 | | | SM 2540 C | WCAI/2517 |
| T1504417006 | Duplicate | | | SM 2540 C | WCAI/2517 |
| T1504417001 | Field Blank | | | EPA 350.1 | WCAI/2525 |
| T1504417002 | TH-78 | | | EPA 350.1 | WCAI/2525 |
| T1504417003 | TH-72 | | | EPA 350.1 | WCAI/2525 |
| T1504417004 | TH-76 | | | EPA 350.1 | WCAI/2526 |
| T1504417005 | TH-77 | | | EPA 350.1 | WCAI/2526 |
| T1504417006 | Duplicate | | | EPA 350.1 | WCAI/2526 |
| T1504417001 | Field Blank | SW-846 3010A | DGMj/1362 | SW-846 6010 | ICPj/1221 |
| T1504417002 | TH-78 | SW-846 3010A | DGMj/1362 | SW-846 6010 | ICPj/1221 |
| T1504417003 | TH-72 | | | SM 4500-CI-E | WCAI/2550 |
| T1504417004 | TH-76 | | | SM 4500-CI-E | WCAI/2550 |
| T1504417005 | TH-77 | | | SM 4500-CI-E | WCAI/2550 |
| T1504417006 | Duplicate | | | SM 4500-CI-E | WCAI/2550 |
| T1504417001 | Field Blank | SW-846 3010A | DGMj/1366 | SW-846 6020 | ICMj/1078 |
| T1504417002 | TH-78 | SW-846 3010A | DGMj/1366 | SW-846 6020 | ICMj/1078 |
| T1504417003 | TH-72 | SW-846 3010A | DGMj/1366 | SW-846 6020 | ICMj/1078 |
| T1504417004 | TH-76 | SW-846 3010A | DGMj/1382 | SW-846 6020 | ICMj/1081 |
| T1504417005 | TH-77 | SW-846 3010A | DGMj/1382 | SW-846 6020 | ICMj/1081 |
| T1504417006 | Duplicate | SW-846 3010A | DGMj/1382 | SW-846 6020 | ICMj/1081 |

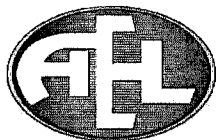
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Advanced
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Advanced Environmental Laboratories, Inc
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Phone: (813)630-9616
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

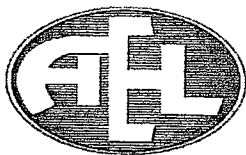
Workorder: T1504417 Southeast County Landfill

| Lab ID | Sample ID | Prep Method | Prep Batch | Analysis Method | Analysis Batch |
|-------------|-----------|--------------------|------------|--------------------|----------------|
| T1504417003 | TH-72 | SW-846 3010A | DGMJ/1391 | SW-846 6010 | ICPJ/1236 |
| T1504417004 | TH-76 | SW-846 3010A | DGMJ/1391 | SW-846 6010 | ICPJ/1236 |
| T1504417005 | TH-77 | SW-846 3010A | DGMJ/1391 | SW-846 6010 | ICPJ/1236 |
| T1504417006 | Duplicate | SW-846 3010A | DGMJ/1391 | SW-846 6010 | ICPJ/1236 |
| T1504417002 | TH-78 | Field Measurements | FLD/ | Field Measurements | FLD/ |
| T1504417003 | TH-72 | Field Measurements | FLD/ | Field Measurements | FLD/ |
| T1504417004 | TH-76 | Field Measurements | FLD/ | Field Measurements | FLD/ |
| T1504417005 | TH-77 | Field Measurements | FLD/ | Field Measurements | FLD/ |

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☐ **Gainesville:** 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☐ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
☐ **Miramar:** 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ **Tallahassee:** 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
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TSU4417

| | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------|--|------------------------------------------------|--|--------------------|-------------------|-----------|-----|----------|------------|--|--|--|--|--|--|--|--|------------------------|
| Client Name: Hills. Co. Public Utilities | | Project Name: Southeast County Landfill - IAMP | | BOTTLE SIZE & TYPE | ANALYSIS REQUIRED | Ammonia-N | TDS | Chloride | As, Fe, Na | | | | | | | | | LABORATORY I.D. NUMBER |
| Address: 332 North Falkenburg Rd. | | P.O. Number/Project Number: N/A | | | | | | | | | | | | | | | | |
| Tampa, Florida 33619 | | Project Location: Southeast County Landfill | | | | | | | | | | | | | | | | |
| Phone: (813) 663-3222 | | REMARKS/SPECIAL INSTRUCTIONS: | | | | | | | | | | | | | | | | |
| FAX: (813) 274-6801 | | | | | | | | | | | | | | | | | | |
| Contact: Michael Townsel | | | | | | | | | | | | | | | | | | |
| Sampled By: Z. PATTERSON / A. BALLOON | | | | | | | | | | | | | | | | | | |
| Turn Around Time: <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> RUSH | | | | | | | | | | | | | | | | | | |
| Page: 1 of 1 | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | SAMPLE DESCRIPTION | Grab Comp | SAMPLING | | MATRIX | NO. COUNT | PRESERVATION | | | | | | | | | | | |
|-----------|--------------------|-----------|----------|-------|--------|-----------|--------------|---|---|---|---|--|--|--|--|--|--|--|
| | | | DATE | TIME | | | | | | | | | | | | | | |
| | FIELD BLANK | G | 4/1/15 | 10:40 | GW | | | X | X | X | X | | | | | | | |
| | TH-78 | ↓ | ↓ | 11:41 | ↓ | ↓ | | X | X | X | X | | | | | | | |
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Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 2.4 (in degrees celcius)

Form revised 09/19/2012 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 1A S: 1V

| | Relinquished by: | Date | Time | Received by: | Date | Time |
|---|--------------------|--------|------|--------------------|--------|------|
| 1 | <i>[Signature]</i> | 4/1/15 | 1410 | <i>[Signature]</i> | 4/1/15 | 1410 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |

FOR DRINKING WATER USE (When PWS information not otherwise supplied)

PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site Address: _____



☐ **Altamonte Springs:** 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
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06/804

750447

Received on Ice ☒ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☒ Where required, pH checked Temperature when received 4.2 (in degrees celcius)

Form revised 09/19/2012

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 1A S: 1V

| Relinquished by: | | Date | Time | Received by: | | Date | Time |
|------------------|---------------------|--------|------|--------------|--|--------|------|
| 1 | <i>Jack Ralston</i> | 4/2/15 | 1520 | <i>Mar C</i> | | 4/2/15 | 1520 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |

| | |
|-----------------------------------------------------------------------------|--------------------|
| FOR DRINKING WATER USE (When PWS information not otherwise supplied) | |
| PWS ID: | _____ |
| Contact Person: | _____ Phone: _____ |
| Supplier of Water: | _____ |
| Site Address: | _____ |

Revision Date: February 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

| | | | |
|----------------------|------------------------|----------------|--|
| SITE NAME: SELF IAMP | | SITE LOCATION: | |
| WELL NO: FIELD BLANK | SAMPLE ID: FIELD BLANK | DATE: 4/1/15 | |

PURGING DATA

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------|------------------------------------------|---------------------------------------|
| WELL DIAMETER (inches): <i>N/A</i> | TUBING DIAMETER (inches): <i>N/A</i> | WELL SCREEN INTERVAL DEPTH: — feet to — feet | STATIC DEPTH TO WATER (feet): <i>N/A</i> | PURGE PUMP TYPE OR BAILER: <i>N/A</i> |
| WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY | | | | |
| (only fill out if applicable) | | | | |
| = (feet - feet) X gallons/foot = gallons | | | | |
| EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME | | | | |
| (only fill out if applicable) | | | | |
| = gallons + (gallons/foot X feet) + gallons = gallons | | | | |

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | | PURGING INITIATED AT: | | PURGING ENDED AT: | | TOTAL VOLUME PURGED (gallons): | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------|------------------|-----------------------|---------------------|-------------------|----------------------------------------------|------------------------------------------------------------|------------------|------------------|-----------------|
| N/A | | N/A | | N/A | | N/A | | N/A | | | |
| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. (circle units) μmhos/cm or μS/cm | DISSOLVED OXYGEN (circle units) mg/L or % saturation | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) |
| FIELD BLANK | | | | | | | | | | | |
| WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 | | | | | | | | | | | |
| PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) | | | | | | | | | | | |

SAMPLING DATA

[illegible]

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

| | | | |
|-------------------------|------------------|-----------------------------------|--------------|
| SITE NAME: SELF IAMP | | SITE LOCATION: Lithia, Florida | |
| WELL NO: TH-78 | SAMPLE ID: TH-78 | | DATE: 4/1/15 |

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 2009

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------|---------------------------------------------------|-----------------------------------------------------|---------------------------|----------------------------------------|----------------|-----------------------------------|---------------------|----------------------------------------|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| WELL DIAMETER (inches): 2 | | TUBING DIAMETER (inches): 0.5 | | WELL SCREEN INTERVAL DEPTH: 180 feet to 190 feet | | STATIC DEPTH TO WATER (feet): 96.89 | | PURGE PUMP TYPE OR BAILER: DBP | | | | | | | | | | | | | | | |
| WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) | | | | | | | | | | | | | | | | | | | | | | | |
| = (190 feet - 96.89 feet) X .16 gallons/foot = 14.90 gallons (only fill out if applicable) | | | | | | | | | | | | | | | | | | | | | | | |
| EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) | | | | | | | | | | | | | | | | | | | | | | | |
| = gallons + (gallons/foot X feet) + gallons = gallons | | | | | | | | | | | | | | | | | | | | | | | |
| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 189 | | | FINAL PUMP OR TUBING DEPTH IN WELL (feet): 189 | | | PURGING INITIATED AT: 10:02 | | PURGING ENDED AT: 10:48 | | TOTAL VOLUME PURGED (gallons): 23.0 | | | | | | | | | | | | | |
| TIME | VOLUME PURGED (gallons) | CUMUL. VOLUME PURGED (gallons) | PURGE RATE (gpm) | DEPTH TO WATER (feet) | pH (standard units) | TEMP. (°C) | COND. µS/cm | DISSOLVED OXYGEN mg/L | TURBIDITY (NTUs) | COLOR (describe) | ODOR (describe) | | | | | | | | | | | | |
| 10:32 | 15.0 | 15.0 | .50 | 96.89 | 6.67 | 23.61 | 2458 | .38 | 1.11 | NONE | NONE | | | | | | | | | | | | |
| 10:40 | 4.0 | 19.0 | .50 | 96.89 | 6.67 | 23.60 | 2458 | .44 | 1.28 | | | | | | | | | | | | | | |
| 10:48 | 4.0 | 23.0 | .50 | 96.89 | 6.67 | 23.59 | 2459 | .40 | 1.02 | ↓ | ↓ | | | | | | | | | | | | |
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| WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) | | | | | | | | | | | | | | | | | | | | | | | |

[illegible]

Page 3 of 4

Form FD 9000-24

| | | | |
|----------------------|------------------|--------------------------------|--|
| SITE NAME: SELF IAMP | | SITE LOCATION: Lithia, Florida | |
| WELL NO: TH-76 | SAMPLE ID: TH-76 | DATE: 4/2/15 | |

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

SEE C.O.C. FOR SAMPLE ANALYSIS

DBP = Dedicated bladder pump

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump;
 RFPP = Reverse Flow Peristaltic Pump; SM = Sraw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 2009

[illegible]

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; DBP = Dedicated bladder pump; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; RFP = Reverse Flow Peristaltic Pump; FSP = Flow Sampling Pump

Revision Date: February 2009