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July 9, 2012

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

RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 21

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on May 3-4, 2012, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from eleven (11) on-site groundwater monitoring wells and two (2) on-site limited use potable supply wells. Samples for the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. The following paragraphs summarize the findings from this sampling event, and the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

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pН

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values in the surficial range from 4.01 to 5.66 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in the four (4) upper Floridan groundwater monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. The County attempted to obtain a representative groundwater sample from the piezometer / monitoring well P-18S during this sampling event. However, turbidity values remained elevated during the attempted sampling procedures. Therefore, as agreed, a representative groundwater sample was collected from the surficial aquifer groundwater monitoring well, TH-30.

Conductivity

The conductivity values in most of the groundwater monitoring wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. Surficial aquifer groundwater monitoring well TH-58 conductivity values have continued to exhibit a decreasing trend since November 2011. During this monthly sampling event, the conductivity in TH-58 was 540 uhmos/cm.

The conductivity value observed in the surficial aquifer groundwater monitoring wells TH-73, TH-74 and TH-75 are 283, 602 and 588 umhos/cm, respectively. Minor impacts remain in close proximity to the sinkhole within the surficial aquifer. The conductivity value observed in the upper Floridan aquifer groundwater monitoring well TH-72 during this sampling event was 746 uhmos/cm, which is higher than the previous months value. The County will continue to evaluate the conductivity in this well in the coming months.

Total Dissolved Solids (TDS)

TDS values have continued to decrease in TH-58, and all the wells sampled as part of the IAMP are below the compliance criteria of 500 mg/l for TDS.

Chloride

Chloride values remain within the SDWS of 250 mg/l. Surficial aquifer groundwater monitoring wells TH-30, TH-58 TH-74, and TH-75 exhibited values of 110, 65, 110, and 120 mg/l, respectively. As discussed in previous IAMP reports, the chloride values are likely attributable to the grout materials introduced into the subsurface in the area of the sinkhole. The decrease in values observed in TH-73 since January 2012 support this position.

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Arsenic

The arsenic observed in TH-58 during this sampling event was 0.025 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present in TH-58 at almost the same concentration for over ten years. Although significant changes in water quality have recently been observed in TH-58, the arsenic values have continued to remain very stable. This observation continues to support the position that the arsenic is likely not attributable to the landfill or the sinkhole, but is likely naturally occurring within the soils surrounding the well and being mobilized in the anaerobic environment below the lined landfill.

Iron

Total iron concentrations in six (6) surficial aquifer wells were observed above the SDWS of 0.3 mg/l. The concentrations of iron across the site ranged from below the detectable limits to 38 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities.

Total Ammonia

Ammonia concentrations observed in the groundwater monitoring wells were at or below the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l, except for surficial aquifer well TH-28A. A concentration of 3 mg/l was detected during this sampling event and the location is directly south of surficial well TH-73 and south / southwest of the sinkhole. No other impacts have been noted in TH-28A. The County will continue to closely evaluate this component of water quality in future IAMP sampling.

Conclusions

The water quality observed in the May 2012 sampling event continues to indicate the wells closest to the sinkhole have exhibited changes in water quality. Based on the proximity of the wells and the trends observed, it is apparent that these impacts appear to be attributable to the sinkhole and/or the grouting activities conducted as part of the investigation and initial remediation activities conducted at the site.

Overall, water quality observations demonstrate significant improvement in the wells previously exhibiting impacts thought to be attributable to the sinkhole and/or the grout materials. The deeper upper Floridan aquifer monitoring wells continue to exhibit good water quality. The on-site supply wells continue to exhibit good water quality and no significant changes have been observed to date.

Recommendations

Based on the past year of monthly IAMP sampling and the significant overall improvement in water quality observed, the County recommends the IAMP sampling program be reduced to a quarterly schedule in the near future. The sampling of these wells could be performed in

Mr. John Morris, P.G. July 9, 2012 Page 4

conjunction with the required quarterly sampling of the site. As discussed with the FDEP, the County intends to continue the monthly IAMP sampling schedule, further evaluate the compiled data set, and prepare additional justification for the reduced sampling frequency.

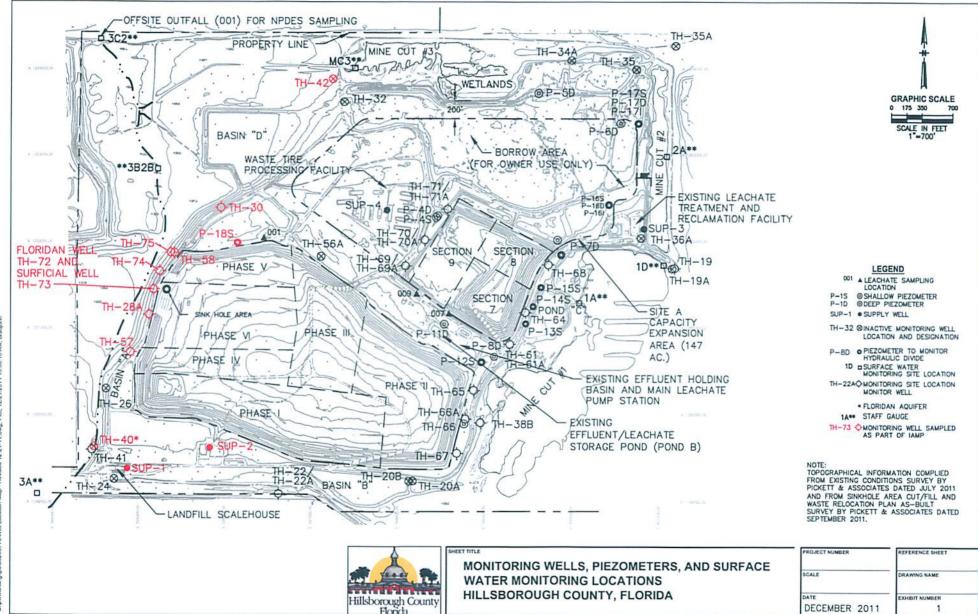
Enclosed for your review please find a site location map depicting the on-site wells sampled, the water quality data summary table, a groundwater elevation data table, groundwater contour and flow diagram, and the complete analytical data report from our contracted laboratory, Test America, Inc. Should you have any questions or require any additional information please feel free to call me at (813) 272-5977, ext. 43944.

Respectfully submitted,

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

Acc: John Lyons, Director, Public Works Department
Patricia Berry, Public Utilities Department
Pamela Greene, Public Utilities Department
Larry Ruiz, Public Utilities Department
Beth Schinella, Public Utilities Department
Michelle Van Dyk, Public Utilities Department
Richard Tedder, FDEP Tallahassee
Susan Pelz, FDEP Southwest District
Steve Morgan, FDEP, Southwest District
Andy Schipfer, EPC
Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services

G:/enviro/self/ ADRs/IAMP Report No.21.doc Final copy scanned to LFS/Southeast/Sinkhole/SCLF – IAMP Report No 21.



60286213:Well Location Map - Revised 12-21-11 dwg Plot 12/21/2011 10:08 1

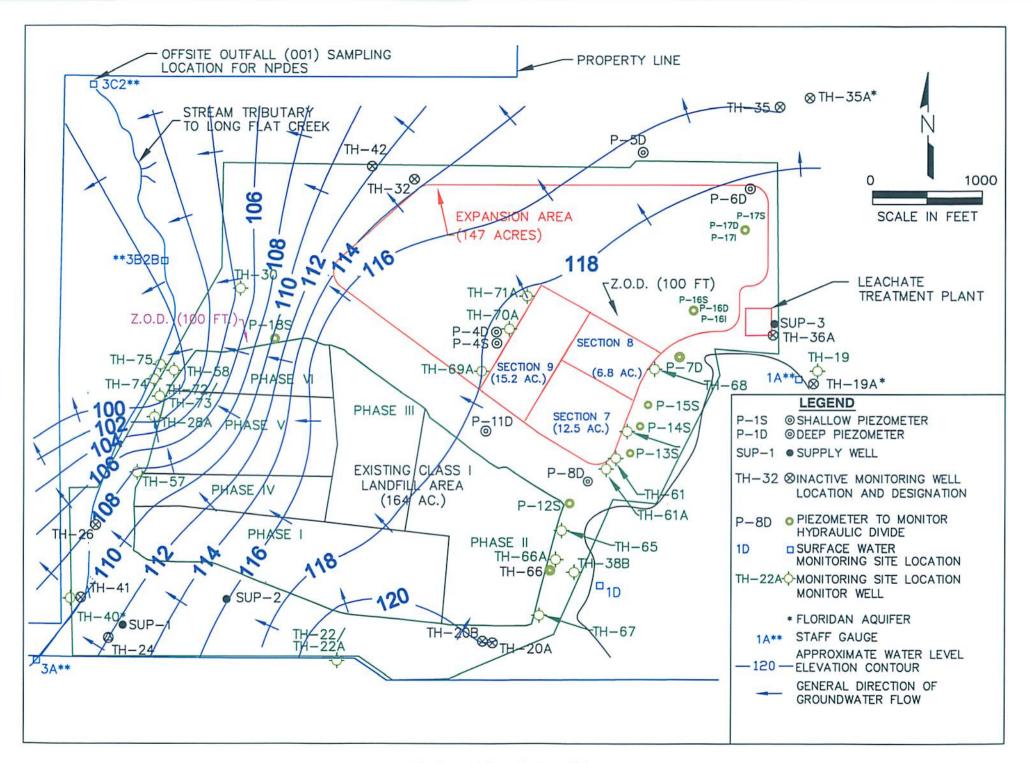
Hillsborough County Southeast Landfill Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells May 3-4, 2012

| GENERAL (mg/l) | | | Surficia | al Aquifer | Wells | | | | Up | per Florida | an Aquifer | Wells | | (MCL) STANDARD |
|---------------------------------------|--------------|---------------|--------------|--------------|--|---------------|--------------|--------------|--|--|--|--------------|---------|--|
| PARAMETERS | TH-28A | TH-30 | TH-57 | TH-58 | TH-73 | TH-74 | TH-75 | TH-19 | TH-40 | TH-42 | TH-72 | SUP-1 | SUP-2 | F.A.C. 62-550 |
| conductivity (umhos/cm) (field) | 305 | 431 | 152 | 540 | 283 | 602 | 588 | 402 | 388 | 511 | 746 | 348 | 364 | NS |
| dissolved oxygen (mg/l) (field) | 1.32 | 0.19 | 0.28 | 0.43 | 0.99 | 0.86 | 0.28 | 0.1 | 0.47 | 2.82 | 1.60 | 0.07 | 0.17 | NS |
| pH (field) | 5.13 | 4.01 | 4.88 | 5.66 | 4:80 | 5.15 | 5.32 | 6.85 | 7.29 | 7.07 | 6.90 | 7.40 | 7.45 | (6.5 - 8.5)** |
| temperature (°C) (field) | 26.64 | 23.60 | 25.87 | 25.84 | 24.88 | 21.93 | 22.06 | 23.46 | 23.44 | 23.80 | 23.46 | 24.59 | 24.79 | NS |
| turbidity (NTU) (field) | 9.15 | 1.93 | 2.24 | 0.69 | 6.47 | 12.5 | 0.0 | 0.0 | 0.0 | 4.76 | 0.81 | 0.0 | 0.0 | NS |
| total dissolved solids (mg/i) | 110 | 180 | 68 | 250 | 160 | 330 | 350 | 220 | 170 | 260 | 380 | 180 | 190 | 500** |
| chloride (mg/l) | 61 | 110 | 26 | 65 | 63 | 110 | 120 | 8.1 | 8.5 | 18 | 72 | 9.5 | 11 | 250** |
| ammonia nitrogen (mg/l as N) | | 2.3 | 1.2 | 1.5 | 1.9 | 2.8 | 1.9 | 0.48 | 0.63 | 0.41 | 2.3 | 0.33 | 0.29 | 2.8*** |
| | | | 1860 | | | | | | | in Alderia | | | | |
| | | | | 1 | | | | | | ļ | 1 | | | (MCL) STANDARD |
| Metals: (mg/l) | TH-28A | TH-30 | TH-57 | TH-58 | TH-73 | TH-74 | TH-75 | TH-19 | TH-40 | TH-42 | TH-72 | SUP-1 | SUP-2 | F.A.C. 62-550 |
| arsenic | 0.004 u | 0.004 น | 0.004 u | 0.025 | 0.004 u | 0.004 u | 0.0078 i | 0.004 u | 0.004 u | 0.004 u | 0.004 u | 0.004 u | 0.004 u | 0.01° |
| iron | 3.7 | 0.36 | 0.31 | 4.1 | 4.5 | 38 | 16 | 0.05 u | 0.05 u | 0.12 i | 0.54 | 0.05 u | 0.05 u | 0.3** |
| sodium | 25 | 29 | 11 | 24 | 22 | 25 | 33 | 14 | 19 | 17 | 49 | 9 | 8.5 | 160° |
| | | | | | • | e delige | | | :: | | est e aille. | | Jeni | |
| Note: Ref. Groundwater Guidance Co | ncentrations | FDEP 201: | 2 | 1 | | 1 | | | Ī | | | | | |
| MCL=MAXIMUM CONTAMINANT LE | VEL | | | ì | | | | | | | | | | |
| BDL=BELOW DETECTION LIMIT | | | i | | | | <u> </u> | | | | <u> </u> | | | |
| NTU=NEPHELOMETRIC TURBIDITY | UNITS | | | | 1 | i | | | | | | 1 | | |
| i = reported value between the labora | lory method | detection lim | it and the l | aboratory p | ractical qu | antitation li | mit | | <u> </u> | ļ | | | | |
| u = parameter was analyzed but not d | | | - | | T | ĺ | | | | <u> </u> | | | | |
| *=DENOTES PRIMARY DRINKING V | | NDARD | | | | | | i | i | | 1 | | | |
| **=DENOTES SECONDARY DRINKI | NG WATER | STANDARI | 5 | | | | | | | | | | | |
| ***=DENOTES FLORIDA GUIDANCE | CONCENT | RATION | | Ī | | | | | | | | | | |
| 5 £13 | | | | | | 1 | | <u> </u> | | | | | | |
| ug/I=MICROGRAMS PER LITER | | | | i | | | | | | | | | | |
| mg/I=MILLIGRAMS PER LITER | | | | <u> </u> | | | | | | | | | - | |
| NS=NO STANDARD | | | | | | | | | | | | | | |

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL

May 2, 2012

| Measuring | T.O.C. | 05/02/2012 | | |
|----------------|--------------------------------------|-------------------|------------------|----------------------|
| Point | Elevations | W.L. | W.L. | Time |
| 1.D. | (NGVD) | B.T.O.C. | (NGVD) | 111110 |
| P-4D | 140.78 | 23.72 | 117.06 | 11:38 AM |
| P-4S | 140.95 | Dry | Dry | 11:37 AM |
| P-5D | 151.94 | Dry | Dry | 11:05 AM |
| P-6D-A | 148.01 | 29.45 | 118.56 | 10:58 AM |
| P-7D | 138.92 | 19.75 | 119.17 | 11:45 AM |
| P-8D | 138.34 | 19.99 | 118.35 | 12:09 PM |
| P-11D | 138.02 | 19.30 | 118.72 | 11:49 AM |
| P-12S | 134.97 | 16.20 | 118.77 | 12:11 PM |
| P-13S | 140.21 | 21.28 | 118.93 | 12:04 PM |
| P-14S | 138.56 | 19.71 | 118.85 | 12:00 PM |
| P-15S | 139.19 | 20.45 | 118.74 | 11:48 AM |
| P-16S | 143.38 | 16.58 | 126.80 | 10:52 AM |
| P-16I | 144.15 | 25.88 | 118.27 | 10:51 AM |
| P-16D | 143.84 | 25.59 | 118.25 | 10:50 AM |
| P-17S | 137.35 | 18.55 | 118.80 | 11:13 AM |
| P-17I | 137.32 | 19.17 | 118.15 | 11:12 AM |
| P-17D | 137.22 | 19.16 | 118.06 | 11:11 AM |
| P-18S | 129.86 | 19.50 | 110.36 | 10:18 AM |
| P-19 | 133.36 | 16.16 | 117.20 | 11:01 AM |
| P-20 | 132.38 | 14.81 | 117.57 | 10:54 AM |
| P-21 | 122.79 | 5.59 | 117.20 | 11:28 AM |
| P-22 P-23 | 128.35 143.13 | 10.88 | 117.47 | 11:30 AM |
| TH-19* | 130.27 | 25.25 123.35 | 117.88 | 11:24 AM 10:36 AM |
| TH-20A | 131.86 | 11.80 | 6.92 120.06 | 10:36 AM 12:25 PM |
| TH-20B | 132.57 | 12.80 | 119.77 | 12:26 PM |
| TH-22 | 128.82 | 7.30 | 121.52 | 9:13 AM |
| TH-22A | 129.27 | 7.91 | 121.36 | 9:13 AM |
| TH-24A | 128.23 | 7.91 | 120.32 | 9:19 AM |
| TH-28A | 131.10 | 29.43 | 101.67 | 9:53 AM |
| TH-30 | 128.88 | 24.32 | 104.56 | 9:44 AM |
| TH-32 | 129.90 | 16.29 | 113.61 | 10:22 AM |
| TH-35 | 145.98 | 30.11 | 115.87 | 11:08 AM |
| TH-36A | 152.70 | 35.00 | 117.70 | 10:45 AM |
| TH-38A | 130.68 | 12.29 | 118.39 | 12:20 PM |
| TH-38B | 131.81 | 13.07 | 118.74 | 12:19 PM |
| TH-40* | 124.99 | 120.35 | 4.64 | 9:27 AM |
| TH-41° | 125.00 | 123.22 | 1.78 | 9:28 AM |
| TH-42* | 116.74 | 95.72 | 21.02 | 10:25 AM |
| TH-57 | 128.36 | 20.42 | 107.94 | 9:34 AM |
| TH-58 | 127.88 | 28.70 | 99.18 | 9:47 AM |
| TH-61 | 138.73 | 19.39 | 119.34 | 12:06 PM |
| TH-61A | 139.45 | 20.00 | 119.45 | 12:07 PM |
| TH-64 | 139.64 | 19.88 | 119.76 | 12:02 PM |
| TH-65 | 135.40 | 16.41 | 118.99 | 12:13 PM |
| TH-66 | 130.58 | 11.25 | 119.33 | 12:16 PM |
| TH-66A | 130.66 | 11.92 | 118.74 | 12:15 PM |
| TH-67 TH-68 | 129.51 140.01 | 7.12 | 122.39 | 12:21 PM |
| TH-69A | 144.97 | 20.05 26.93 | 119.96 | 11:56 AM 11:46 AM |
| TH-70A | 146.63 | 26.93 27.42 | 118.04 119.21 | 11:46 AM 11:43 AM |
| TH-71A | 146.95 | 28.66 | 118.29 | 11:43 AM |
| TH-72 | 130.96 | 126.55 | 4.41 | 9:51 AM |
| TH-73 | 131.07 | 32.74 | 98.33 | 9:49 AM |
| TH-74 | 109.08 | 10.71 | 98.37 | 9:38 AM |
| TH-75 | 106.92 | 8.27 | 98.65 | 9:40 AM |
| SW-3A | 3.0'=125.53' | Dry | Dry | 9:06 AM |
| SW-3B2B | 3.0'=97.97' | Dry | Dry | 10:01 AM |
| SW-3C2 | 6.0'=92.33' | Dry | Dry | 10:07 AM |
| Mine Cut #1 | 4.0'=122.14' | Dry | Dry | 11:52 AM |
| Mine Cut #2 | 6.0'=123.47' | 0.80 | 118.27 | 10:33 AM |
| Mine Cut #3 | 4.0'=112.27' | 1.58 | 109.85 | 10:27 AM |
| Mine Cut #4 | 5.0'=97.54' | 1.22 | 93.76 | 10:12 AM |
| | □ National Geodel | ic Vertical Datum | - | |
| | Top of Casing | | • | |
| | □ Below Top of Ca □ Floridan Well | មុខលេខិ | • | |
| | =No Data | • | • | |
| | □ Water Level | • | • | |
| | | | | |





THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Tampa 6712 Benjamin Road Suite 100 Tampa, FL 33634

Tel: (813)885-7427

TestAmerica Job ID: 660-47461-1 Client Project/Site: Southeast Landfill

For:

Hillsborough County Public Utilities Dep Solid Waste Management Group Brandon Support Operations Complex 332 North Falkenburg Rd, 2nd Floor Tampa, Florida 33619

Attn: David Adams

Authorized for release by: 5/17/2012 1:52:53 PM

Nancy Robertson Project Manager II

nancy.robertson@testamericainc.com

.....LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory



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Definitions/Glossary

Client: Hillsborough County Public Utilities Dep

Not detected at the reporting limit (or MDL or EDL if shown)

Relative Percent Difference, a measure of the relative difference between two points

Practical Quantitation Limit

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Quality Control

Project/Site: Southeast Landfill

ND

PQL

QC

RL RPD

TEF

TEQ

| Metals | |
|---|--|
| Qualifier | Qualifier Description |
| U | Indicates that the compound was analyzed for but not detected. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| 1 | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. |
| General Chen | nistry |
| Qualifier | Qualifier Description |
| Ū | Indicates that the compound was analyzed for but not detected. |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. |
| | |
| Glossary | |
| Glossary Abbreviation | These commonly used abbreviations may or may not be present in this report. |
| | These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis |
| Abbreviation | - |
| Abbreviation | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| Abbraviation *** %R | Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery |
| Abbreviation | Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains no Free Liquid |
| Abbreviation R R CNF DL. RA, RE, IN | Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains no Free Liquid Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| Abbreviation | Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains no Free Liquid Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample Estimated Detection Limit |

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Job ID: 660-47461-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-47461-1

Comments

No additional comments.

Receipt

The samples were received on 5/3/2012 2:10 PM and 5/4/2012 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.1° C and 5.2° C.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for iron in batch 124218 were outside control limits with the parent sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 124448 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

| Client Sample ID: DUPLICATE | NOT BLA | NK 47461 | | | | Lal | Sample ID: | 660-47461- |
|---|--|-----------|---|---|---|-------------------------------------|--|--|
| Analyto | Rosult | Qualifier | PQL | MDL | Unit | Dil Fac (|) Method | Prep Type |
| Iron | 4600 | | 200 | 50 | ug/L | 1 | 6010B | Total |
| Sodium | 23 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Recoverable Total |
| | | | 0.00 | 0.01 | 9.2 | • | 33,05 | Recoverable |
| Chloride | 63 | | 2.0 | 0.80 | mg/L | 4 | 300.0 | Total/NA |
| Ammonia as N | 1.7 | | 0.020 | 0.010 | mg/L | 1 | 350.1 | Total/NA |
| Total Dissolved Solids | 170 | | 5.0 | 5.0 | mg/L | 1 | SM 2540C | Total/NA |
| Client Sample ID: BLANK EQU | JIPMENT 4 | 7461 | | | | Lal | Sample ID: | 660-47461 |
| Analyto | Result | Qualifier | PQL | MDL | Unit | Dil Fac |) Method | Prep Type |
| Ammonia as N | 0.11 | | 0.020 | 0.010 | mg/L | 1 | 350.1 | Total/NA |
| Client Sample ID: TH-73 | | | | | | Lal | Sample ID: | 660-47461 |
| Analyto | Result | Qualifier | PQL | MDL | Unit | Dil Fac |) Method | Prep Type |
| Iron | 4500 | | 200 | 50 | ug/L | 1 | 6010B | Total Recoverable |
| Sodium | 22 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Total |
| Chloride | 63 | | 2.0 | 0.80 | mg/L | 4 | 300.0 | Recoverable Total/NA |
| Ammonia as N | 1.9 | | 0.020 | 0.010 | mg/L | 1 | 350.1 | Total/NA |
| Total Dissolved Solids | 160 | | 5.0 | 5.0 | mg/L | 1 | SM 2540C | Total/NA |
| Field pH | 4.80 | | | | SU | 1 | Field Sampling | Total/NA |
| Field Temperature | 24.88 | | | | Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved | 0.99 | | | | mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance | 283 | | | | umhos/cm | 1 | Field Sampling | Total/NA |
| Turbidity | 6.47 | | | | NTU | 1 | Field Sampling | Total/NA |
| | | | | | | | o Sample ID: | 000 47404 |
| Client Sample ID: TH-58 | | | | | | Lai | J Sample ID. | 66U -4 /461 |
| Client Sample ID: TH-58 | Result | Qualifier | PQL | MDL | Unit | | | |
| | Result 25 | Qualifier | PQL 10 | MDL 4.0 | Unit ug/L | Dil Fac 1 | | Prep Type Total |
| Analyte Arsenic | 25 | Quatifier | | | | Dil Fac |) Method | Prep Type Total |
| Analyte Arsenic | | Qualifier | | 4.0 | | Dil Fac |) Method | Prep Type Total Recoverable Total |
| Analyte Arsenic Iron | 25 4100 | Qualifier | 10 200 | 4.0 50 | ug/L | Dil Fac 1 | 0 Method 6010B | Prep Type Total Recoverable Total Recoverable |
| Analyte Arsenic | 25 | Qualifier | 10 | 4.0 50 | ug/L | Dil Fac I | Method 6010B | Prep Type Total Recoverable Total Recoverable Total |
| Analyte Arsenic Iron | 25 4100 | Qualifier | 10 200 | 4.0 50 0.31 | ug/L ug/L mg/L | Dil Fac 1 | 0 Method 6010B | Prep Type Total Recoverable Total Recoverable Total |
| Analyte Arsenic Iron Sodium | 25 4100 24 | Qualifier | 200 0.50 2.0 | 4.0 50 0.31 0.80 | ug/L ug/L mg/L mg/L | Dil Fac 1 1 1 1 | 0 Method 6010B 6010B 6010B 300.0 | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Armonia as N | 25 4100 24 65 | Qualifier | 10 200 0.50 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L | Dil Fac 1 | 0 Method 6010B 6010B 6010B 300.0 350.1 | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids | 25 4100 24 65 1.5 250 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L mg/L | Dil Fac 1 1 1 4 1 | 0 Method 6010B 6010B 6010B 300.0 350.1 SM 2540C | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH | 25 4100 24 65 1.5 250 5.66 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L mg/L SU | Dil Fac 1 1 1 4 1 1 1 1 1 1 | 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Armonia as N Total Dissolved Solids Field pH Field Temperature | 25 4100 24 65 1.5 250 5.66 25.84 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L mg/L SU Degrees C | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 | 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA Total/NA Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Armonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved | 25 4100 24 65 1.5 250 5.66 25.84 0.43 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L mg/L SU Degrees C mg/L | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling Field Sampling Field Sampling | Prep Type Total Recoverable Total Recoverable Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature | 25 4100 24 65 1.5 250 5.66 25.84 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L mg/L SU Degrees C | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 | 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA Total/NA Total/NA Total/NA Total/NA |
| Analyte Arsenic Iron Sodium Chloride Armonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance | 25 4100 24 65 1.5 250 5.66 25.84 0.43 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 1 1 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling Field Sampling Field Sampling Field Sampling | Prep Type Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 | 25 4100 24 65 1.5 250 5.66 25.84 0.43 540 0.69 | Qualifier | 200 0.50 2.0 0.020 | 4.0 50 0.31 0.80 0.010 10 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 1 1 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity | 25 4100 24 65 1.5 250 5.66 25.84 0.43 540 0.69 | | 200 0.50 2.0 0.020 10 | 4.0 50 0.31 0.80 0.010 10 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm | Dil Fac 1 1 1 4 1 1 1 1 1 1 1 1 Lal | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte Iron | 25 4100 24 65 1.5 250 5.66 25.84 0.43 540 0.69 Result | | 10 200 0.50 2.0 0.020 10 | 4.0 50 0.31 0.80 0.010 10 MDL 50 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm NTU | Dil Fac 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte | 25 4100 24 65 1.5 250 5.66 25.84 0.43 540 0.69 | | 10 200 0.50 2.0 0.020 10 | 4.0 50 0.31 0.80 0.010 10 MDL 50 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm NTU | Dil Fac 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA |
| Analyte Arsenic Iron Sodium Chloride Ammonia as N Total Dissolved Solids Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Client Sample ID: TH-57 Analyte Iron | 25 4100 24 65 1.5 250 5.66 25.84 0.43 540 0.69 Result | | 10 200 0.50 2.0 0.020 10 | 4.0 50 0.31 0.80 0.010 10 MDL 50 | ug/L ug/L mg/L mg/L mg/L SU Degrees C mg/L umhos/cm NTU | Dil Fac 1 | Method 6010B 6010B 6010B 300.0 350.1 SM 2540C Field Sampling | Prep Type Total Recoverable Total Recoverable Total Recoverable Total/NA |

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

| Analyte | | , | 660-47461 |
|---|-------------|----------------|----------------------|
| Field pm | Dil Fac D | D Method | Prep Type |
| Degrees C | | SM 2540C | Total/NA |
| Oxygen, Dissolved Specific Conductance 0.28 152 mg/L umbos/cm Turbidity 2.24 NTU Analyto Result Iron Qualifier PQL 200 MDL 50 ug/L Sodium 29 0.50 0.31 mg/L Chloride 110 2.5 1.0 mg/L Ammonia as N 2.3 0.020 0.010 mg/L Total Dissolved Solds 180 10 10 mg/L Field pH 4.01 SU Degrees C Oxygen, Dissolved 0.19 mg/L mg/L Specific Conductance 431 umhos/cm NTU Tilent Sample ID: TH-28A Analyte Result Qualifier PQL MDL Unit Ition 3700 200 50 ug/L Sodium Sodium 25 0.50 0.31 mg/L Chloride 61 2.0 0.80 mg/L SU SU Chloride 61 2.0 0.80 mg/L SU SU Chloride 61 2.0 0.80 mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance | 1 | Field Sampling | Total/NA |
| Turbidity 2.24 | 1 | Field Sampling | Tctal/NA |
| Analyte | 1 | Field Sampling | Total/NA |
| Analyte Result Qualifier PQL MDL Unit Iron 360 3 | 1 | Field Sampling | Total/NA |
| From | Lat | o Sample ID: | 660-47461 |
| Sodium 29 | Dil Fac D | D Method | Prep Type |
| Chloride | 1 | 601 0B | Total Recoverable |
| Ammonia as N 2.3 0.020 0.010 mg/L Total Dissolved Solids 180 10 10 mg/L Field pH 4.01 SU Field Temperature 23.60 Degrees C Oxygen, Dissolved 0.19 mg/L Specific Conductance 431 umhos/cm Turbidity 1.93 NTU Client Sample ID: TH-28A Analyte Result Qualifier PQL MDL Unit Iron 3700 200 50 ug/L Sodium 25 0.50 0.31 mg/L Chloride 61 2.0 0.80 mg/L Ammonia as N 3.0 0.020 0.010 mg/L Total Dissolved Solids 110 10 10 mg/L Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Client Sample ID: TH-40 Analyte Result Qualifier PQL MDL Unit Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte 26.64 Degrees C Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Result Qualifier PQL MDL Unit Sodium 19 0.50 0.31 mg/L Chloride 30.5 Umhos/cm NTU Client Sample ID: TH-40 Analyte Result Qualifier PQL MDL Unit Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Total Dissolved Solids 170 10 mg/L Total Dissolved Solids 170 10 mg/L Field pH 7.29 | 1 | 6010B | Total Recoverable |
| Total Dissolved Solids | 5 | 300.0 | Total/NA |
| Field pH 4.01 SU Field Temperature 23.60 Degrees C Oxygen, Dissolved 0.19 mg/L Specific Conductance 431 umhos/cm Turbidity 1.93 NTU Client Sample ID: TH-28A Analyte Result Qualifier PQL MDL Unit Iron 3700 200 50 ug/L Sodium 25 0.50 0.31 mg/L Chloride 61 2.0 0.80 mg/L Ammonia as N 3.0 0.020 0.010 mg/L Field PH 5.13 SU Field PH 5.13 SU Field PH 5.13 SU Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Rosult Qualifier PQL MDL Unit MDL | 1 | 350.1 | Total/NA |
| Degrees C Degr | 1 | SM 2540C | Total/NA |
| Oxygen, Dissolved 0.19 mg/L umhos/cm Specific Conductance 431 umhos/cm Turbidity 1.93 NTU Client Sample ID: TH-28A Analyte Result Qualifier PQL MDL Unit Iron 3700 200 50 ug/L Sodium 25 0.50 0.31 mg/L Chloride 61 2.0 0.80 mg/L Ammonia as N 3.0 0.020 0.010 mg/L Total Dissolved Solids 110 10 10 mg/L Field pH 5.13 SU SU Degrees C Oxygen, Dissolved 1.32 mg/L mg/L Specific Conductance 305 umhos/cm NTU Client Sample ID: TH-40 Analyte Rosult Rosult Qualifier PQL MDL Unit mg/L Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N< | 1 | Field Sampling | Total/NA |
| Specific Conductance 431 | 1 | Field Sampling | Total/NA |
| Turbidity | 1 | Field Sampling | Total/NA |
| Client Sample ID: TH-28A | 1 | Field Sampling | Total/NA |
| Result Qualifier PQL MDL Unit | 1 | Field Sampling | Total/NA |
| Sodium | Lat | o Sample ID: | 660-47461 |
| Sodium 25 | Dil Fac D | D Method | Prep Type |
| Chloride 61 2.0 0.80 mg/L Ammonia as N 3.0 0.020 0.010 mg/L Total Dissolved Solids 110 10 10 mg/L Field pH 5.13 SU Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Rosult Qualifier PQL MDL Unit mg/L Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 - | 6010B | Total Recoverable |
| Ammonia as N 3.0 0.020 0.010 mg/L Total Dissolved Solids 110 10 10 mg/L Field pH 5.13 SU Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Result Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 | 6010B | Total Recoverable |
| Total Dissolved Solids 110 10 10 mg/L Field pH 5.13 SU Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Result Qualifier PQL MDL Unit mg/L Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 4 | 300.0 | Total/NA |
| Field pH 5.13 SU Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Client Sample ID: TH-40 Analyte Rosult Qualifier PQL MDL Unit Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 | 350.1 | Total/NA |
| Field Temperature 26.64 Degrees C Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Analyte Result Qualifier PQL MDL Unit O.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 mg/L Field pH 7.29 SU | 1 | SM 2540C | Total/NA |
| Oxygen, Dissolved 1.32 mg/L Specific Conductance 305 umhos/cm Turbidity 9.15 NTU Character C | 1 | Field Sampling | Total/NA |
| Specific Conductance 305 | 1 | Field Sampling | Total/NA |
| Position of the content of t | 1 | Field Sampling | Total/NA |
| Analyte | 1 | Field Sampling | Total/NA |
| Analyte Result Qualifier PQL MDL Unit Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 | Field Sampling | Total/NA |
| Sodium 19 0.50 0.31 mg/L Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 mg/L Field pH 7.29 SU | Lat | o Sample ID: | 660-47478 |
| Chloride 8.5 J3 0.50 0.20 mg/L Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | Dil Fac C | D Method | Prep Type |
| Ammonia as N 0.63 0.020 0.010 mg/L Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 | 6010B | Total Recoverable |
| Total Dissolved Solids 170 10 10 mg/L Field pH 7.29 SU | 1 | 300.0 | Total/NA |
| Field pH 7.29 SU | 1 | 350.1 | Total/NA |
| | 1 | SM 2540C | Total/NA |
| | 1 | Field Sampling | Total/NA |
| Field Temperature 23.44 Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved 0.47 mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance 388 umhos/cm | 1 | Field Sampling | Total/NA |
| Turbidity 0.00 NTU | 1 | Field Sampling | Total/NA |

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Specific Conductance

TestAmerica Job ID: 660-47461-1

| Client Sample ID: TH-72 (Con | unueuj | | | | | La | Sample ID: | 660-4/4/8- |
|------------------------------|--------|-----------|-------|-------|-----------|---------|----------------------------------|-------------------------------------|
| Analyte | Result | Qualifier | PQL | MDL | Unit | Dil Fac | D Method | Prep Type |
| Iron | 540 | | 200 | 50 | ug/L | 1 | 6010B | Total |
| Sodium | 40 | | | | | _ | | Recoverable |
| Societii | 49 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Total Recoverable |
| Chloride | 72 | | 2.5 | 1.0 | mg/L | 5 | 300.0 | Total/NA |
| Ammonia as N | 2.3 | | 0.020 | 0.010 | - | 1 | 350.1 | Total/NA |
| Total Dissolved Solids | 380 | | 17 | 17 | mg/L | 1 | SM 2540C | Total/NA |
| Field pH | 6.90 | | | | รบ | 1 | Field Sampling | Total/NA |
| Field Temperature | 23.46 | | | | Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved | 1.60 | | | | mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance | 746 | | | | umhos/cm | 1 | Field Sampling | Total/NA |
| Turbidity - | 0.81 | | | | NTU | 1 | Field Sampling | Total/NA |
| Client Sample ID: SUP 2 | | | | | | Lal | o Sample ID: | 660-47478- |
| Analyte | | Qualifier | PQL | MDL | Unit | Dil Fac | D Method | Prep Type |
| Sodium | 8.5 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Total |
| Chloride | 11 | | 0.50 | 0.20 | mg/L | 1 | 300.0 | Recoverable |
| Ammonia as N | 0.29 | | 0.020 | 0.010 | • | 1 | 350.1 | Total/NA Total/NA |
| Total Dissolved Solids | 190 | | 10 | | mg/L | 1 | SM 2540C | Total/NA |
| Field pH | 7.45 | | 10 | 10 | SU | 1 | Field Sampling | Total/NA |
| Field Temperature | 24.79 | | | | Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved | 0.17 | | | | mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance | 364 | | | | umhos/cm | 1 | | Total/NA |
| Turbidity | 0.00 | | | | NTU | 1 | Field Sampling Field Sampling | Total/NA |
| Client Sample ID: TH-19 | | | | | | Lal | o Sample ID: | 660-47478- |
| Analyto | | Qualifier | PQL | MDL | | Dil Fac | | Prep Type |
| Sodium | 14 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Total |
| Chloride | 8.1 | | 0.50 | 0.20 | mg/L | 1 | 300.0 | Recoverable Total/NA |
| Ammonia as N | 0.48 | | 0.020 | 0.010 | - | 1 | 350.1 | Total/NA |
| Total Dissolved Solids | 220 | | 10 | | mg/L | 1 | SM 2540C | Total/NA |
| Field pH | 6.85 | | | | SU | 1 | Field Sampling | Total/NA |
| Field Temperature | 23.46 | | | | Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved | 0.10 | | | | mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductance | 402 | | | | umhos/cm | 1 | Field Sampling | Total/NA |
| Turbidity | 0.00 | | | | NTU | 1 | Field Sampling | Total/NA |
| Client Sample ID: TH-42 | | | - | | | Lal | o Sample ID: | 660-47478- |
| Analyto | | Qualifier | PQL | | Unit | Dil Fac | | Prep Type |
| Iron | 120 | 1 | 200 | 50 | ug/L | 1 | 60108 | Total |
| Sodium | 17 | | 0.50 | 0.31 | mg/L | 1 | 6010B | Recoverable Total Recoverable |
| Chloride | 18 | | 0.50 | 0.20 | mg/L | 1 | 300.0 | Total/NA |
| Ammonia as N | 0.41 | | 0.020 | 0.010 | = | 1 | 350.1 | Total/NA |
| Total Dissolved Solids | 260 | | 10 | | mg/L | 1 | SM 2540C | Total/NA |
| Field pH | 7.07 | | | | SU | 1 | Field Sampling | Total/NA |
| Field Temperature | 23.80 | | | | Degrees C | 1 | Field Sampling | Total/NA |
| Oxygen, Dissolved | 2.82 | | | | mg/L | 1 | Field Sampling | Total/NA |
| Specific Conductores | E11 | | | | | | | Tatalibia |

Total/NA

Field Sampling

umhos/cm

511

Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

| Client Sample ID: TH-42 (Con | | La | Lab Sample ID: 660-47478-5 | | | | | |
|------------------------------|--------|-----------|----------------------------|-----|------|---------|----------------|-------------|
| Analyto | Rosult | Qualifier | PQL | MOL | Unit | Dil Fac | D Method | Ргер Туре |
| Turbidity | 4.76 | | | | NTU | 1 | Field Sampling | Total/NA |
| Client Sample ID: SUP 1 | | | | | | La | b Sample ID: | 660-47478-6 |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | Dil Fac | D Method | Preo Type |

| Analyte | Result C | Qualifier | PQL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|----------|-----------|-------|-------|-----------|---------|---|----------------|-------------------------|
| Sodium | 9.0 | | 0.50 | 0.31 | mg/L | 1 | _ | 6010B | Total |
| Chloride | 9.5 | | 0.50 | 0.20 | mg/L | 1 | | 300,0 | Recoverable Total/NA |
| Ammonia as N | 0.33 | | 0.020 | 0.010 | mg/L | 1 | | 350.1 | Total/NA |
| Total Dissolved Solids | 180 | | 10 | 10 | mg/L | 1 | | SM 2540C | Total/NA |
| Field pH | 7.40 | | | | SU | 1 | | Field Sampling | Total/NA |
| Field Temperature | 24.59 | | | | Degrees C | 1 | | Field Sampling | Total/NA |
| Oxygen, Dissolved | 0.07 | | | | mg/L | 1 | | Field Sampling | Total/NA |
| Specific Conductance | 348 | | | | umhos/cm | 1 | | Field Sampling | Total/NA |
| Turbidity | 0.00 | | | | NTU | 1 | | Field Sampling | Total/NA |

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: DUPLICATE NOT BLANK 47461

Date Collected: 05/03/12 00:00

Lab Sample ID: 660-47461-1 Matrix: Ground Water

| Date Received: 05/03/12 14:10 | | | | | | | | | |
|-------------------------------|-------------------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Method: 6010B - Metals (ICP) | - Total Recoverat | ole | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:10 | 1 |
| Iron | 4600 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:10 | 1 |
| Sodium | 23 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:10 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 63 | | 2.0 | 0.80 | mg/L | | | 05/11/12 17:00 | 4 |
| Ammonia as N | 1.7 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:06 | 1 |
| Total Dissolved Solids | 170 | | 5.0 | 5.0 | mg/L | | | 05/07/12 13:42 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: BLANK EQUIPMENT 47461

Date Collected: 05/03/12 09:30

Date Received: 05/03/12 14:10

Lab Sample ID: 660-47461-2

Matrix: Ground Water

| Method: 6010B - Metals (ICP) | - Total Recoverat | ole | | | | | | | |
|------------------------------|-------------------|-----------|------|------|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | Ū | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:13 | |
| Iron | 50 | υ | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:13 | 1 |
| Sodium | 0.31 | υ | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:13 | 1 |
| Г | | | | | | | | | |



| | General Chemistry | | | | | | _ | | | |
|---|------------------------|--------|-----------|-------|-------|------|---|----------|----------------|---------|
| 1 | Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dif Fac |
| l | Chloride | 0.20 | Ū | 0,50 | 0,20 | mg/L | | | 05/11/12 10:18 | 1 |
| ļ | Ammonia as N | 0.11 | | 0,020 | 0,010 | mg/L | | | 05/10/12 12:08 | 1 |
| l | Total Dissolved Solids | 5.0 | U | 5.0 | 5.0 | mg/L | | | 05/07/12 13:43 | 1 |

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-73

Lab Sample ID: 660-47461-3

Matrix: Ground Water

Date Collected: 05/03/12 11:19
Date Received: 05/03/12 14:10

| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:17 | 1 |
| iron | 4500 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:17 | 1 |
| Sodium | 22 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:17 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 63 | | 2.0 | 0.80 | mg/L | | | 05/11/12 17:15 | 4 |
| Ammonia as N | 1.9 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:09 | 1 |
| Total Dissolved Solids | 160 | | 5.0 | 5.0 | mg/L | | | 05/07/12 13:44 | 1 |
| Method: Field Sampling - Field | d Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 4.80 | | | | SU | | | 05/03/12 11:19 | 1 |
| Field Temperature | 24.88 | | | | Degrees C | | | 05/03/12 11:19 | 1 |
| Oxygen, Dissolved | 0.99 | | | | mg/L | | | 05/03/12 11:19 | 1 |
| Specific Conductance | 283 | | | | umhos/cm | | | 05/03/12 11:19 | 1 |
| Turbidity | 6.47 | | | | NTU | | | 05/03/12 11:19 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Lab Sample ID: 660-47461-4

Matrix: Ground Water

| Client Sample ID: TH-58 | Lab Samp |
|--------------------------------|----------|
| Date Collected: 05/03/12 10:48 | • |
| Date Received: 05/03/12 14:10 | |

| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Arsenic | 25 | | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:20 | 1 |
| Iron | 4100 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:20 | 1 |
| Sodium | 24 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:20 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 65 | | 2.0 | 0.80 | mg/L | | | 05/11/12 17:31 | 4 |
| Ammonia as N | 1.5 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:10 | 1 |
| Total Dissolved Solids | 250 | | 10 | 10 | mg/L | | | 05/07/12 13:45 | 1 |
| Method: Field Sampling - Field | l Sampling | | | | | | | | |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 5.66 | | | | SU | | | 05/03/12 10:48 | |
| Field Temperature | 25.84 | | | | Degrees C | | | 05/03/12 10:48 | 1 |
| Oxygen, Dissolved | 0.43 | | | | mg/L | | | 05/03/12 10:48 | 1 |
| Specific Conductance | 540 | | | | umhos/cm | | | 05/03/12 10:48 | 1 |
| Turbidity | 0.69 | | | | NTU | | | 05/03/12 10:48 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-57 Lab Sample ID: 660-47461-5

Date Collected: 05/03/12 12:03

Matrix: Ground Water
Date Received: 05/03/12 14:10

| Date Received: 05/03/12 14:10 | | | | | | | | | |
|------------------------------------|-------------------|-----------|-------|-------|-----------|---|----------------|----------------|----------|
| ─ Method: 6010B - Metals (ICP) | - Total Recoverat | ole | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Propared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:30 | <u> </u> |
| Iron | 310 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:30 | 1 |
| Sodium | 11 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:30 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 26 | | 0.50 | 0.20 | mg/L | | | 05/11/12 12:07 | <u>_</u> |
| Ammonia as N | 1.2 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:11 | 1 |
| Total Dissolved Solids | 68 | | 5.0 | 5.0 | mg/L | | | 05/07/12 13:46 | 1 |
| Method: Field Sampling - Field | d Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 4.88 | | | | SU | | | 05/03/12 12:03 | <u> </u> |
| Field Temperature | 25.87 | | | | Degrees C | | | 05/03/12 12:03 | 1 |
| Oxygen, Dissolved | 0.28 | | | | mg/L | | | 05/03/12 12:03 | 1 |
| Specific Conductance | 152 | | | | umhos/cm | | | 05/03/12 12:03 | 1 |
| Turbidity | 2.24 | | | | NTU | | | 05/03/12 12:03 | 1 |
| _ | | | | | | | | | |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-30

Lab Sample ID: 660-47461-6

Matrix: Ground Water

| | oap.c | |
|------|-------------|----------------|
| Date | Collected: | 05/03/12 10:20 |
| Date | Received: 0 | 05/03/12 14:10 |

| Method: 6010B - Metals (ICP) - | Total Recoverab | le | | | | | | | |
|--------------------------------|-----------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:33 | 1 |
| ron | 360 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:33 | 1 |
| Sodium | 29 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:33 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| hloride | 110 | | 2.5 | 1.0 | mg/L | | | 05/11/12 17:46 | 5 |
| mmonia as N | 2.3 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:12 | 1 |
| otal Dissolved Solids | 180 | | 10 | 10 | mg/L | | | 05/07/12 13:46 | 1 |
| lethod: Field Sampling - Field | Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dit Fac |
| ield pH | 4.01 | | | | SU | | | 05/03/12 10:20 | 1 |
| ield Temperature | 23.60 | | | | Degrees C | | | 05/03/12 10:20 | 1 |
| xygen, Dissolved | 0.19 | | | | mg/L | | | 05/03/12 10:20 | 1 |
| pecific Conductance | 431 | | | | umhos/cm | | | 05/03/12 10:20 | 1 |
| urbidity | 1,93 | | | | NTU | | | 05/03/12 10:20 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-28A Lab Sample ID: 660-47461-7 Date Collected: 05/03/12 11:43 Matrix: Ground Water

| Date Collected: 05/03/12 11:43 | | | | | | | | Matrix: Groun | d Water |
|--------------------------------|-----------------|-----------|-------|-------|---------------------------------------|---|----------------|----------------|---------|
| Date Received: 05/03/12 14:10 | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| Method: 6010B - Metals (ICP) - | Total Recoverat | ole | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | Ū | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:37 | 1 |
| Iron | 3700 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:37 | 1 |
| Sodium | 25 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:37 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 61 | | 2.0 | 0.80 | mg/L | | | 05/11/12 11:21 | 4 |
| Ammonia as N | 3.0 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:14 | 1 |
| Total Dissolved Solids | 110 | | 10 | 10 | mg/L | | | 05/07/12 13:47 | 1 |
| Method: Field Sampling - Field | Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 5.13 | | | | SU | | | 05/03/12 11:43 | 1 |
| Field Temporature | 26.64 | | | | Degrees C | | | 05/03/12 11:43 | 1 |
| Oxygen, Dissolved | 1.32 | | | | mg/L | | | 05/03/12 11:43 | 1 |
| Specific Conductance | 305 | | | | umhos/cm | | | 05/03/12 11:43 | 1 |
| Turbidity | 9.15 | | | | NTU | | | 05/03/12 11:43 | 1 |
| | | | | | | | | | |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-40 Lab Sample ID: 660-47478-1 Date Collected: 05/04/12 09:26

| Date Collected: 05/04/12 09:26 Date Received: 05/04/12 15:35 | | | | | | | | Matrix: Groun | d Water |
|---|-------------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Method: 6010B - Metals (ICP) | - Total Recoverat | ole | | | | | | | |
| Analyte | | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:32 | 1 |
| tron | 50 | U | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:32 | 1 |
| Sodium | 19 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:32 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 8.5 | J3 | 0.50 | 0.20 | mg/L | | | 05/11/12 13:24 | |
| Ammonia as N | 0.63 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:21 | 1 |
| Total Dissolved Solids | 170 | | 10 | 10 | mg/L | | | 05/07/12 13:48 | 1 |
| Method: Field Sampling - Field | d Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 7.29 | | | | SU | | | 05/04/12 09:26 | 1 |
| Field Temperature | 23.44 | | | | Degrees C | | | 05/04/12 09:26 | 1 |
| Oxygen, Dissolved | 0.47 | | | | mg/L | | | 05/04/12 09:26 | 1 |
| Specific Conductance | 388 | | | | umhos/cm | | | 05/04/12 09:26 | 1 |
| Turbidity | 0.00 | | | | NTU | | | 05/04/12 09:26 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

| Client Sample ID: TH-72 | Lab Sample ID: 660-47478-2 |
|--------------------------------|----------------------------|
| Date Collected: 05/04/12 11:04 | Matrix: Ground Water |
| Date Received: 05/04/12 15:35 | |

| | | | | | | | matrix. Groun | u water |
|-----------------|--|--|--------------------------|--------------------------------|--|---|--|---|
| | | | | | | | | |
| Total Recoverat | ole | | | | | | | |
| Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:35 | <u>_</u> |
| 540 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:35 | 1 |
| 49 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:35 | 1 |
| | | | | | | | | |
| Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 72 | | 2.5 | 1.0 | mg/L | | | 05/12/12 12:27 | 5 |
| 2.3 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:22 | 1 |
| 380 | | 17 | 17 | mg/L | | | 05/07/12 13:49 | 1 |
| l Sampling | | | | | | | | |
| Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 6.90 | | | | SU | | | 05/04/12 11:04 | 1 |
| 23.46 | | | | Degrees C | | | 05/04/12 11:04 | 1 |
| 1.60 | | | | mg/L | | | 05/04/12 11:04 | 1 |
| 746 | | | | umhos/cm | | | 05/04/12 11:04 | 1 |
| 0.81 | | | | UТИ | | | 05/04/12 11:04 | 1 |
| | Rosult 4.0 540 49 Result 72 2.3 380 I Sampling Rosult 6.90 23.46 1.60 746 | Result Qualifier 72 2.3 380 I Sampling Result 6.90 23.46 1.60 746 | Result Qualifier PQL | Result Qualifier PQL MDL | Result Qualifier PQL MDL Unit ug/L | Result Qualifier PQL MDL Unit D | Result Qualifier PQL MDL Unit D Prepared | Result Qualifier PQL MDL Unit D Prepared Analyzed |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: SUP 2 Lab Sample ID: 660-47478-3 Date Collected: 05/04/12 13:00

| Date Collected: 05/04/12 13:00 Date Received: 05/04/12 15:35 | | | | | | | | Matrix: Groun | d Water |
|---|-------------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Method: 6010B - Metals (ICP) | - Total Recoveral | ole | | | | | • | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 09:50 | |
| Iron | 50 | U | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 09:50 | 1 |
| Sodium | 8.5 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 09:50 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chlorido | 11 | | 0.50 | 0.20 | mg/L | | | 05/11/12 14:26 | 1 |
| Ammonia as N | 0.29 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:24 | 1 |
| Total Dissolved Solids | 190 | | 10 | 10 | mg/L | | | 05/07/12 13:49 | 1 |
| Method: Field Sampling - Fiel | d Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 7,45 | | | | SU | | | 05/04/12 13:00 | 1 |
| Field Temperature | 24.79 | | | | Degrees C | | | 05/04/12 13:00 | 1 |
| Oxygen, Dissolved | 0.17 | | | | mg/L | | | 05/04/12 13:00 | 1 |
| Specific Conductance | 364 | | | | umhos/cm | | | 05/04/12 13:00 | 1 |
| Turbidity | 0.00 | | | | NTU | | | 05/04/12 13:00 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: TH-19

Date Collected: 05/04/12 12:21

Lab Sample ID: 660-47478-4

Matrix: Ground Water

Date Received: 05/04/12 15:35

| Analyto | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-------|-------|------|---|----------------|----------------|---------|
| Arsenic | 4.0 | Ū | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 09:53 | 1 |
| Iron | 50 | U | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 09:53 | 1 |
| Sodium | 14 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 09:53 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 8.1 | | 0.50 | 0.20 | mg/L | | | 05/11/12 14:41 | |
| Ammonia as N | 0.48 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:25 | 1 |
| Total Dissolved Solids | 220 | | 10 | 10 | mg/L | | | 05/07/12 13:50 | 1 |

| Method: Field Sampling - Field Sampling | | | | | | | | | | | |
|---|--------|-----------|-----|-----|-----------|---|----------|----------------|---------|--|--|
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Field pH | 6.85 | | | | SU | ' | | 05/04/12 12:21 | 1 | | |
| Field Temperature | 23.46 | | | | Degrees C | | | 05/04/12 12:21 | 1 | | |
| Oxygen, Dissolved | 0.10 | | | | mg/L | | | 05/04/12 12:21 | 1 | | |
| Specific Conductance | 402 | | | | umhos/cm | | | 05/04/12 12:21 | 1 | | |
| Turbidity | 0.00 | | | | NTU | | | 05/04/12 12:21 | 1 | | |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Lab Sample ID: 660-47478-5

Matrix: Ground Water

Client Sample ID: TH-42
Date Collected: 05/04/12 11:56
Date Received: 05/04/12 15:35

| Method: 6010B - Metals (ICP) - | Total Recoverab | ole | | | | | | | |
|--------------------------------|-----------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Analyte | | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 09:56 | 1 |
| Iron | 120 | ı | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 09:56 | 1 |
| Sodium | 17 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 09:56 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 18 | | 0.50 | 0.20 | mg/L | | | 05/11/12 14:57 | 1 |
| Ammonia as N | 0.41 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:26 | 1 |
| Total Dissolved Solids | 260 | | 10 | 10 | mg/L | | | 05/07/12 13:51 | 1 |
| Method: Field Sampling - Field | Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | ۵ | Prepared | Analyzed | Dil Fac |
| Field pH | 7.07 | | | | SU | | | 05/04/12 11:56 | 1 |
| Field Temperature | 23.80 | | | | Degrees C | | | 05/04/12 11:56 | 1 |
| Oxygen, Dissolved | 2.82 | | | | mg/L | | | 05/04/12 11:56 | 1 |
| Specific Conductance | 511 | | | | umhos/cm | | | 05/04/12 11:56 | 1 |
| Turbidity | 4.76 | | | | NTU | | | 05/04/12 11:56 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Client Sample ID: SUP 1

Lab Sample ID: 660-47478-6 Matrix: Ground Water

Date Collected: 05/04/12 13:27 Date Received: 05/04/12 15:35

| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------|-----------|-------|-------|-----------|------------|----------------|----------------|---------|
| Arsenic | 4.0 | Ü | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 10:00 | 1 |
| Iron | 50 | U | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 10:00 | 1 |
| Sodium | 9.0 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 10:00 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Rosult | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 9.5 | | 0.50 | 0.20 | mg/L | | | 05/11/12 15:12 | 1 |
| Ammonia as N | 0.33 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:27 | 1 |
| Total Dissolved Solids | 180 | | 10 | 10 | mg/L | | | 05/07/12 13:51 | 1 |
| Method: Field Sampling - Field | l Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 7.40 | | | | SU | - - | | 05/04/12 13:27 | 1 |
| Field Temperature | 24.59 | | | | Degrees C | | | 05/04/12 13:27 | 1 |
| Oxygen, Dissolved | 0.07 | | | | mg/L | | | 05/04/12 13:27 | 1 |
| Specific Conductance | 348 | | | | umhos/cm | | | 05/04/12 13:27 | 1 |
| Turbidity | 0.00 | | | | NTU | | | 05/04/12 13:27 | 1 |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Lab Sample ID: MB 660-124218/1-A

Matrix: Water

Analysis Batch: 124269

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 124218

| 1 | | MB | MB | | | | | | | |
|---|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| i | Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| ĺ | Arsenic | 4.0 | Ū | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |
| ļ | Iron | 50 | υ | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |
| | Sodium | 0.31 | υ | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Lab Sample ID: LCS 660-124218/2-A Matrix: Water

Analyte Arsenic Iron Sodium

Analysis Batch: 124269

| | | | | | | Prep Batch: 12421 | | | | |
|-------|--------|-----------|------|---|------|-------------------|--|--|--|--|
| Spike | LCS | LCS | | | | %Rec. | | | | |
| Added | Result | Qualifier | Unit | D | %Rec | Limits | | | | |
| 1000 | 1070 | | ug/L | _ | 107 | 75 - 125 | | | | |
| 1000 | 1100 | | ug/L | | 110 | 75 - 125 | | | | |

mg/L

Lab Sample ID: 660-47477-C-1-B MS

Matrix: Water

Analysis Batch: 124269

| Client Sample ID: | : Matrix Spike |
|-------------------|----------------|
| Prep Type: Total | Recoverable |
| | |

75 - 125

107

Prep Batch: 124218

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------|--------|-----------|-------|--------|-----------|------|---|------|----------|------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Arsenic | 4.0 | U | 1000 | 1110 | | ug/L | | 111 | 75 - 125 | |
| Iren | 38000 | J3 | 1000 | 39900 | J3 | ug/L | | 178 | 75.125 | |
| Sodium | 25 | | 10.0 | 36.3 | | mg/L | | 114 | 75 - 125 | |

10.7

10.0

Lab Sample ID: 660-47477-C-1-C MSD

Matrix: Water

Analysis Batch: 124269

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 124218

| ,a., c.c = = = . = . = . | | | | | | | | | | | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Arsenic | 4.0 | Ū | 1000 | 1120 | | ug/L | | 112 | 75 - 125 | 2 | 20 |
| Iron | 38000 | J3 | 1000 | 40300 | J3 | ug/L | | 218 | 75 - 125 | 1 | 20 |
| Sodium | 25 | | 10.0 | 36.9 | | mg/L | | 120 | 75 - 125 | 2 | 20 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-124448/14

Matrix: Water

Analyte

Chloride

Analysis Batch: 124448

Client Sample ID: Method Blank Prep Type: Total/NA

MR MR MDL Unit Result Qualifier POL D Prepared Analyzed Dil Fac 0.20 mg/L 0.20 U 0.50 05/11/12 09:16

Lab Sample ID: MB 660-124448/58

Matrix: Water

Analysis Batch: 124448

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB

Analyte Result Qualifier PQL MDL Unit Prepared Analyzed Dil Fac Chloride 0.20 U 0.50 0.20 mg/L 05/11/12 18:01



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

| Lab Sample ID: LCS 660-124448/25 | ; | | | | | | Client | Sampl | e ID: Lab Co | | |
|--|--------|---------------------|----------------|--------|------------------|------|----------|----------|----------------------|---|------------------------|
| Matrix: Water | | | | | | | | | Prep T | ype: To | tal/NA |
| Analysis Batch: 124448 | | | Spike | 1.08 | LCS | | | | %Rec. | | |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | | | 10.0 | 9.83 | - dualities | mg/L | <u></u> | 98 | 90 - 110 | | |
| | | | | | | | | | | | |
| Lab Sample ID: LCS 660-124448/59 |) | | | | | | Client | Sampl | e ID: Lab Co | ontrol S | ample |
| Matrix: Water | | | | | | | | | Prep T | ype: To | tal/NA |
| Analysis Batch: 124448 | | | | | | | | | | | |
| | | | Spike | LCS | LCS | | | | %Rec. | | |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | | | 10.0 | 9.91 | | mg/L | | 99 | 90 - 110 | | |
| Lab Sample ID: LCSD 660-124448/6 Matrix: Water | 50 | | | | | Cli | ient Sam | iple ID: | Lab Contro Prep T | I Sampl ype: To | - |
| Analysis Batch: 124448 | | | | | | | | | | | |
| | | | Spike | | LCSD | | _ | | %Rec. | | RPD |
| Analyte | | | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | | | 10.0 | 9.94 | | mg/L | | 99 | 90 - 110 | 0 | 30 |
| _ab Sample ID: 660-47461-5 MS | | | | | | | | | Client San | nole ID: | TH-57 |
| Matrix: Ground Water | | | | | | | | | | ype: To | |
| Analysis Batch: 124448 | | | | | | | | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| • | Sample | Sample | Spike | MS | MS | | | | %Rec. | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 26 | | 10.0 | 36.1 | | mg/L | | 96 | 90 - 110 | | |
| Lab Sample ID: 660-47461-5 MSD | | | | | | | | | Client Com | l. ID. | T11 C7 |
| Matrix: Ground Water | | | | | | | | | Client San | | |
| Analysis Batch: 124448 | | | | | | | | | Prep i | ype: To | tanna |
| Analysis Batch. 124446 | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | - | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 26 | | 10.0 | 36.1 | | mg/L | <u>-</u> | 96 | 90 - 110 | 0 | 30 |
| | | | | | | | | | | | |
| Lab Sample ID: 660-47478-1 MS | | | | | | | | | Client San | nple ID: | TH-40 |
| Matrix: Ground Water | | | | | | | | | Prep T | ype: To | tal/NA |
| Analysis Batch: 124448 | | | | | | | | | | | |
| | • | Sample | Spike | MS | MS | | | | %Rec. | | |
| Analyte | | Qualifier | Added | | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 8.5 | J3 | 10.0 | 19.8 | J3 | mg/L | | 113 | 90.110 | | |
| | | | | | | | | | Client San | יחו מוחי | TU 40 |
| ah Sample ID: 660-47478-1 MSD | | | | | | | | | CHEIR San | ihia in: | ı ⊓-40 |
| | | | | | | | | | | una: T- | 4-1/214 |
| Matrix: Ground Water | | | | | | | | | | ype: To | tal/NA |
| Matrix: Ground Water | Sample | Sample | Spike | MSD | MSD | | | | Prep T | уре: То | |
| Lab Sample ID: 660-47478-1 MSD Matrix: Ground Water Analysis Batch: 124448 | - | Sample Qualifier | Spike Added | | MSD Qualifier | Unit | D | %Rec | | ype: To | tal/NA RPD Limit |



Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

| Lab Sample ID: MB 660-124365/11 | | | | | | | | | | | | Client S | Sample ID: I | Method | Blank |
|--|------------------|-------|-----------|----------------|-------|--------------|-------|--------|------|-------|------|----------|-----------------|----------|---------|
| Matrix: Water | | | | | | | | | | | | | Prep Ty | | |
| Analysis Batch: 124365 | | | | | | | | | | | | | • • | • | |
| · | | MB | мв | | | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | | PQL | | MDL | Unit | | D | P | repared | Analyz | ed | Dil Fac |
| Ammonia as N | 0 | .010 | Ū | | 0.020 | (| 0,010 | mg/L | | | | | 05/10/12 1 | 12:01 | 1 |
| Lab Sample ID: LCS 660-124365/12 | | | | | | | | | | Cli | ent | Sample | e ID: Lab Co | ntrol S | ample |
| Matrix: Water | | | | | | | | | | | | | Prep Ty | /pe: To | tal/NA |
| Analysis Batch: 124365 | | | | Spike | | 1.00 | LCS | | | | | | %Rec. | | |
| Analyte | | | | Added | | Result | | lifice | Unit | | D | %Rec | %Rec. Limits | | |
| Ammonia as N | | | | 0.500 | | 0.517 | Qual | | mg/L | | _ | 103 | 90 - 110 | | |
| | | | | | | | | | | | | ,,,, | | | |
| Lab Sample ID: 660-47446-E-1 MS | | | | | | | | | | | | Client | Sample ID: | | |
| Matrix: Water | | | | | | | | | | | | | Prep Ty | ype: To | tavne |
| Analysis Batch: 124365 | C!- | e | -1- | Calle | | Me | MS | | | | | | %Rec. | | |
| Analyte | Sample Result | | | Spike Added | | mo Result | | lifiar | Unit | | D | %Rec | Limits | | |
| Analyte Ammonia as N | 0.010 | | | 1.00 | | 0.946 | Qua | | mg/L | | | 95 | 90 - 110 | | |
| - Annicia de N | 0.010 | U | | 1.00 | | 0.540 | | | mg/L | | | 33 | 30.110 | | |
| Lab Sample ID: 660-47446-E-1 MSD | | | | | | | | | | Clien | t Sa | imple II | D: Matrix Sp | | |
| Matrix: Water | | | | | | | | | | | | | Prep T | ype: To | tal/NA |
| Analysis Batch: 124365 | | | | | | | | | | | | | | | |
| | Sample | | | Spike | | | MSD | | | | | | %Rec. | | RPC |
| Analyte | Result | | lfier | Added | | Result | Qual | lifler | Unit | | D | %Rec | Limits | RPD | Limi |
| Ammonia as N | 0.010 | U | | 1.00 | | 0.958 | | | mg/L | | | 96 | 90 - 110 | 1 | 30 |
| Lab Sample ID: 660-47478-1 MS | | | | | | | | | | | | | Client Sam | ple ID: | TH-40 |
| Matrix: Ground Water | | | | | | | | | | | | | Prep T | ype: To | tal/NA |
| Analysis Batch: 124365 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | Spiko | | MS | MS | | | | | | %Rec. | | |
| Analyte | Result | Qual | ifier | Added | | Result | Qua | lifior | Unit | | D | %Rec | Limits | | |
| Ammonia as N | 0.63 | | | 1,00 | | 1,67 | | | mg/L | | | 104 | 90 - 110 | | |
| Lab Sample ID: 660-47478-1 MSD | | | | | | | | | | | | | Client Sam | ple ID: | TH-40 |
| Matrix: Ground Water | | | | | | | | | | | | | | ype: To | |
| Analysis Batch: 124365 | | | | | | | | | | | | | | - | |
| • | Sample | Sam | plo | Spike | | MSD | MSE |) | | | | | %Rec. | | RPI |
| Analyte | Result | Qual | ifier | Added | | Result | Qua | liflor | Unit | | D | %Rec | Limits | RPD | Limi |
| Ammonia as N | 0.63 | | | 1.00 | | 1.69 | | | mg/L | | _ | 106 | 90 - 110 | 1 | 3(|
| Method: SM 2540C - Solids, To | tal Dis | ssol | ved (TD: | S) | | | | | | | | | | | |
| Lab Sample ID: MB 660-124192/1 | | | | | | | | | | | | Client | Sample ID: | Method | Blani |
| Matrix: Water | | | | | | | | | | | | J WITE | | ype: To | |
| Analysis Batch: 124192 | | | | | | | | | | | | | . 100 1 | , po. 10 | |
| The second section is a second | | мв | MB | | | | | | | | | | | | |
| Analyte | R | esult | Quatifier | | PQL | | MDL | Unit | | D | ρ | repared | Analyz | ed | Dil Fa |



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 660-124192/2

Matrix: Water

Client Sample ID: Lab Control Sample

%Rec.

Prep Type: Total/NA

Analysis Batch: 124192

Spike Analyte Added **Total Dissolved Solids** 10000

LCS LCS Result Qualifier 9920

Unit mg/L

Limits 99 80 - 120

Client Sample ID: DUPLICATE NOT BLANK 47461

Prep Type: Total/NA

Lab Sample ID: 660-47461-1 DU

Matrix: Ground Water Analysis Batch: 124192

Total Dissolved Solids

Analyte

Sample Sample Rosult Qualifier

170

DU DU Result Qualifier 166

Unit mg/L

RPD RPD Limit



20

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Metals

| Pre | p Ba | atch | : 1: | 242 | 18 |
|-----|------|------|------|-----|----|
|-----|------|------|------|-----|----|

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batci |
|---------------------|---------------------------|-------------------|--------------|--------|------------|
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-3 | TH-73 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-4 | TH-58 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-5 | TH-57 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-6 | TH-30 | Total Recoverable | Ground Water | 3005A | |
| 660-47461-7 | TH-28A | Total Recoverable | Ground Water | 3005A | |
| 660-47477-C-1-B MS | Matrix Spike | Total Recoverable | Water | 3005A | |
| 660-47477-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 3005A | |
| 660-47478-1 | TH-40 | Total Recoverable | Ground Water | 3005A | |
| 660-47478-2 | TH-72 | Total Recoverable | Ground Water | 3005A | |
| 660-47478-3 | SUP 2 | Total Recoverable | Ground Water | 3005A | |
| 660-47478-4 | TH-19 | Total Recoverable | Ground Water | 3005A | |
| 660-47478-5 | TH-42 | Total Recoverable | Ground Water | 3005A | |
| 660-47478-6 | SUP 1 | Total Recoverable | Ground Water | 3005A | |
| LCS 660-124218/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 660-124218/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Analysis Batch: 124269

| : Lab Sample ID | Client Sample ID | Prop Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-------------------|--------------|--------|------------|
| 660-47477-C-1-B MS | Matrix Spike | Total Recoverable | Water | 6010B | 124218 |
| 660-47477-C-1-C MSD | Matrix Spike Duplicate | Total Recoverable | Water | 6010B | 124218 |
| 660-47478-1 | TH-40 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47478-2 | TH-72 | Total Recoverable | Ground Water | 6010B | 124218 |
| LCS 660-124218/2-A | Lab Control Sample | Total Recoverable | Water | 6010B | 124218 |
| MB 660-124218/1-A | Method Blank | Total Recoverable | Water | 6010B | 124218 |

Analysis Batch: 124278

| Lab Sample ID | Client Sample ID | Prop Typo | Matrix | Method | Prep Batch |
|---------------|---------------------------|-------------------|--------------|--------|------------|
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-3 | TH-73 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-4 | TH-58 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-5 | TH-57 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-6 | TH-30 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47461-7 | TH-28A | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47478-3 | SUP 2 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47478-4 | TH-19 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47478-5 | TH-42 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47478-6 | SUP 1 | Total Recoverable | Ground Water | 6010B | 124218 |

General Chemistry

Analysis Batch: 124192

| Lab Sample ID | Client Sample ID | Prop Type | Matrix | Method | Prep Batch |
|----------------|---------------------------|-----------|--------------|----------|------------|
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-1 DU | DUPLICATE NOT BLANK 47461 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-3 | TH-73 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-4 | TH-58 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-5 | TH-57 | Total/NA | Ground Water | SM 2540C | |
| 660-47461-6 | TH-30 | Total/NA | Ground Water | SM 2540C | |

Project/Site: Southeast Landfill

General Chemistry (Continued)

Analysis Batch: 124192 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|---------------------|----------|------------|
| 660-47461-7 | TH-28A | Total/NA | Ground Water | SM 2540C | |
| 660-47478-1 | TH-40 | Total/NA | Ground Water | SM 2540C | |
| 660-47478-2 | TH-72 | Total/NA | Ground Water | SM 2540C | |
| 660-47478-3 | SUP 2 | Total/NA | Ground Water | SM 2540C | |
| 660-47478-4 | TH-19 | Total/NA | Ground Water | SM 2540C | |
| 660-47478-5 | TH-42 | Total/NA | Ground Water | SM 2540C | |
| 660-47478-6 | SUP 1 | Total/NA | Ground Water | SM 2540C | |
| LCS 660-124192/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| MB 660-124192/1 | Method Blank | Total/NA | Water | SM 2540C | |

Analysis Batch: 124365

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batc |
|-------------------|---------------------------|-----------|--------------|--------|-----------|
| 660-47446-E-1 MS | Matrix Spike | Total/NA | Water | 350.1 | |
| 660-47446-E-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 350.1 | |
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Total/NA | Ground Water | 350.1 | |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Total/NA | Ground Water | 350.1 | |
| 660-47461-3 | TH-73 | Total/NA | Ground Water | 350.1 | |
| 660-47461-4 | TH-58 | Total/NA | Ground Water | 350.1 | |
| 660-47461-5 | TH-57 | Total/NA | Ground Water | 350.1 | |
| 660-47461-6 | TH-30 | Total/NA | Ground Water | 350.1 | |
| 660-47461-7 | TH-28A | Total/NA | Ground Water | 350.1 | |
| 660-47478-1 | TH-40 | Total/NA | Ground Water | 350.1 | |
| 660-47478-1 MS | TH-40 | Total/NA | Ground Water | 350.1 | |
| 660-47478-1 MSD | TH-40 | Total/NA | Ground Water | 350.1 | |
| 660-47478-2 | TH-72 | Total/NA | Ground Water | 350.1 | |
| 660-47478-3 | SUP 2 | Total/NA | Ground Water | 350.1 | |
| 660-47478-4 | TH-19 | Total/NA | Ground Water | 350.1 | |
| 660-47478-5 | TH-42 | Total/NA | Ground Water | 350.1 | |
| 660-47478-6 | SUP 1 | Total/NA | Ground Water | 350.1 | |
| LCS 660-124365/12 | Lab Control Sample | Total/NA | Water | 350.1 | |
| MB 660-124365/11 | Method Blank | Tctal/NA | Water | 350.1 | |

Analysis Batch: 124448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|---------------------------|-----------|---------------------|--------|------------|
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Total/NA | Ground Water | 300,0 | |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Total/NA | Ground Water | 300.0 | |
| 660-47461-3 | TH-73 | Total/NA | Ground Water | 300.0 | |
| 660-47461-4 | TH-58 | Tctal/NA | Ground Water | 300.0 | |
| 660-47461-5 | TH-57 | Total/NA | Ground Water | 300.0 | |
| 660-47461-5 MS | TH-57 | Total/NA | Ground Water | 300.0 | |
| 660-47461-5 MSD | TH-57 | Total/NA | Ground Water | 300.0 | |
| 660-47461-6 | TH-30 | Total/NA | Ground Water | 300.0 | |
| 660-47461-7 | TH-28A | Total/NA | Ground Water | 300.0 | |
| 660-47478-1 | TH-40 | Total/NA | Ground Water | 300.0 | |
| 660-47478-1 MS | TH-40 | Total/NA | Ground Water | 300.0 | |
| 660-47478-1 MSD | TH-40 | Total/NA | Ground Water | 300,0 | |
| 660-47478-2 | TH-72 | Total/NA | Ground Water | 300.0 | |
| 660-47478-3 | SUP 2 | Total/NA | Ground Water | 300.0 | |
| 660-47478-4 | TH-19 | Total/NA | Ground Water | 300.0 | |
| 660-47478-5 | TH-42 | Total/NA | Ground Water | 300.0 | |
| 660-47478-6 | SUP 1 | Total/NA | Ground Water | 300.0 | |
| LCS 660-124448/25 | Lab Control Sample | Total/NA | Water | 300.0 | |

Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

General Chemistry (Continued)

Analysis Batch: 124448 (Continued)

| Lab Sample ID | Client Sample ID | Prop Typo | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| LCS 660-124448/59 | Lab Control Sample | Total/NA | Water | 300.0 | , |
| LCSD 660-124448/60 | Lab Control Sample Dup | Total/NA | Water | 300.0 | |
| MB 660-124448/14 | Method Blank | Total/NA | Water | 300.0 | |
| MB 660-124448/58 | Method Blank | Total/NA | Water | 300.0 | |

Field Service / Mobile Lab

Analysis Batch: 124203

| Lab Sample ID | Client Sample ID | Prop Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------------|----------------|------------|
| 660-47461-3 | TH-73 | Total/NA | Ground Water | Field Sampling | |
| 660-47461-4 | TH-58 | Total/NA | Ground Water | Field Sampling | |
| 660-47461-5 | TH-57 | Total/NA | Ground Water | Field Sampling | |
| 660-47461-6 | TH-30 | Total/NA | Ground Water | Field Sampling | |
| 660-47461-7 | TH-28A | Total/NA | Ground Water | Field Sampling | |
| 660-47478-1 | TH-40 | Total/NA | Ground Water | Field Sampling | |
| 660-47478-2 | TH-72 | Total/NA | Ground Water | Field Sampling | |
| 660-47478-3 | SUP 2 | Total/NA | Ground Water | Field Sampling | |
| 660-47478-4 | TH-19 | Total/NA | Ground Water | Field Sampling | |
| 660-47478-5 | TH-42 | Total/NA | Ground Water | Field Sampling | |
| 660-47478-6 | SUP 1 | Total/NA | Ground Water | Field Sampling | |

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: DUPLICATE NOT BLANK 47461

Date Collected: 05/03/12 00:00 Date Received: 05/03/12 14:10 Lab Sample ID: 660-47461-1

Matrix: Ground Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prop Typo | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:10 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:42 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:06 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 4 | 124448 | 05/11/12 17:00 | KW | TAL TAM |

Client Sample ID: BLANK EQUIPMENT 47461

Date Collected: 05/03/12 09:30

Date Received: 05/03/12 14:10

Lab Sample ID: 660-47461-2

Matrix: Ground Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prop Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Tctal Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:13 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:43 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:08 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 10:18 | кw | TAL TAM |

Client Sample ID: TH-73

Date Collected: 05/03/12 11:19

Date Received: 05/03/12 14:10

Lab Sample ID: 660-47461-3

Matrix: Ground Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|-------------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:17 | GF | TAL TAM |
| Tctal/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:44 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:09 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 4 | 124448 | 05/11/12 17:15 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/03/12 11:19 | | TAL TAM |

Client Sample ID: TH-58

Date Collected: 05/03/12 10:48

Date Received: 05/03/12 14:10

Lab Sample ID: 660-47461-4

Matrix: Ground Water

| Batch | Batch | | Dilution | Batch | Prepared | | | |
|----------|--|---|---|--|--|---|--|--|
| Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | |
| Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM | |
| Analysis | 6010B | | 1 | 124278 | 05/09/12 10:20 | GF | TAL TAM | |
| Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:45 | то | TAL TAM | |
| Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:10 | TS | TAL TAM | |
| Analysis | 300.0 | | 4 | 124448 | 05/11/12 17:31 | KW | TAL TAM | |
| Analysis | Field Sampling | | 1 | 124203 | 05/03/12 10:48 | | TAL TAM | |
| | Prep Analysis Analysis Analysis Analysis | Type Method Prep 3005A Analysis 6010B Analysis SM 2540C Analysis 350.1 Analysis 300.0 | Type Method Run Prep 3005A Analysis 6010B Analysis SM 2540C Analysis 350.1 Analysis 300.0 | Type Method Run Factor Prep 3005A 3005A Analysis 6010B 1 Analysis SM 2540C 1 Analysis 350.1 1 Analysis 300.0 4 | Type Method Run Factor Number Prep 3005A 124218 Analysis 6010B 1 124278 Analysis SM 2540C 1 124192 Analysis 350.1 1 124365 Analysis 300.0 4 124448 | Type Method Run Factor Number or Analyzed Prep 3005A 124218 05/08/12 09:44 Analysis 6010B 1 124278 05/09/12 10:20 Analysis SM 2540C 1 124192 05/07/12 13:45 Analysis 350.1 1 124365 05/10/12 12:10 Analysis 300.0 4 124448 05/11/12 17:31 | Type Method Run Factor Number or Analyzed Analyst Prep 3005A 124218 05/08/12 09:44 GF Analysis 6010B 1 124278 05/09/12 10:20 GF Analysis SM 2540C 1 124192 05/07/12 13:45 TO Analysis 350.1 1 124365 05/10/12 12:10 TS Analysis 300.0 4 124448 05/11/12 17:31 KW | Type Method Run Factor Number or Analyzed Analyst Lab Prep 3005A 124218 05/08/12 09:44 GF TAL TAM Analysis 6010B 1 124278 05/09/12 10:20 GF TAL TAM Analysis SM 2540C 1 124192 05/07/12 13:45 TO TAL TAM Analysis 350.1 1 124365 05/10/12 12:10 TS TAL TAM Analysis 300.0 4 124448 05/11/12 17:31 KW TAL TAM |

Lab Sample ID: 660-47461-5

Matrix: Ground Water

Client Sample ID: TH-57 Date Collected: 05/03/12 12:03 Date Received: 05/03/12 14:10

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:30 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:46 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:11 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 12:07 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/03/12 12:03 | | TAL TAM |

Client Sample ID: TH-30

Lab Sample ID: 660-47461-6

Date Received: 05/03/12 14:10

Date Collected: 05/03/12 10:20

Matrix: Ground Water

| 1 | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prop Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:33 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:46 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:12 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 5 | 124448 | 05/11/12 17:46 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/03/12 10:20 | | TAL TAM |

Client Sample ID: TH-28A

Date Collected: 05/03/12 11:43

Date Received: 05/03/12 14:10

| Lab | Sample | ID: | 660-47461-7 |
|-----|--------|-------|--------------|
| | Ma | trix. | Ground Water |

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:37 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:47 | TO | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:14 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 4 | 124448 | 05/11/12 11:21 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/03/12 11:43 | | TAL TAM |

Client Sample ID: TH-40

Date Collected: 05/04/12 09:26

Date Received: 05/04/12 15:35

Lab Sample ID: 660-47478-1

Matrix: Ground Water

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzod | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124269 | 05/09/12 08:32 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:48 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:21 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 13:24 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 09:26 | | TAL TAM |

Lab Sample ID: 660-47478-2

Matrix: Ground Water

Client Sample ID: TH-72

Date Collected: 05/04/12 11:04 Date Received: 05/04/12 15:35

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|---------------|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | - | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124269 | 05/09/12 08:35 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:49 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:22 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 5 | 124448 | 05/12/12 12:27 | ĸw | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 11:04 | | TAL TAM |

Client Sample ID: SUP 2

Date Collected: 05/04/12 13:00

Lab Sample ID: 660-47478-3 Matrix: Ground Water

Date Received: 05/04/12 15:35

| | Batch | Batch | | Dilution | Batch | Propared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Ргер Туре | Туро | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 09:50 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:49 | то | TAL TAM |
| Tctal/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:24 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 14:26 | KW | TAL TAM |
| Tctal/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 13:00 | | TAL TAM |

Client Sample ID: TH-19

Date Collected: 05/04/12 12:21

Date Received: 05/04/12 15:35

| Lab | Sample ID: 660-47478-4 |
|-----|------------------------|
| | Matrix: Ground Water |

| | Batch | Batch | | Dilution | Batch | Propared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Ргер Туре | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 09:53 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:50 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:25 | TS | TAL TAM |
| Tctal/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 14:41 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 12:21 | | TAL TAM |

Client Sample ID: TH-42

Date Collected: 05/04/12 11:56

Date Received: 05/04/12 15:35

| Lab S | Sample | ID: | 660 | -4 7478 | -5 |
|-------|--------|-----|-----|--------------------|----|

Matrix: Ground Water

| 1 | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Typo | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 09:56 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:51 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:26 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 14:57 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 11:56 | | TAL TAM |

Lab Chronicle

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

Lab Sample ID: 660-47478-6

Matrix: Ground Water

Client Sample ID: SUP 1 Date Collected: 05/04/12 13:27 Date Received: 05/04/12 15:35

| Prop Type Total Recoverable | Batch Type Prep | Batch Method 3005A | Run | Dilution Factor | Batch Number 124218 | Prepared or Analyzed 05/08/12 09:44 | Analyst GF | Lab TAL TAM |
|-----------------------------|-----------------------|--------------------------|-----|--------------------|---------------------------|---|---------------|----------------|
| Total Recoverable | Analysis | 6010B | | 1 | 124278 | 05/09/12 10:00 | GF | TAL TAM |
| Total/NA Total/NA | Analysis Analysis | SM 2540C 350.1 | | 1 | 124192 124365 | 05/07/12 13:51 05/10/12 12:27 | TO TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 1 | 124448 | 05/11/12 15:12 | кw | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 13:27 | | TAL TAM |

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

| | | * * *** * · · · · · · · · · · · · · · · | | | | |
|-------------------|-----------|---|------------|------------------|--|--|
| Laboratory | Authority | Program | EPA Region | Certification ID | | |
| TestAmerica Tampa | Alabama | State Program | 4 | 40610 | | |
| TestAmerica Tampa | Florida | NELAC | 4 | E84282 | | |
| TestAmerica Tampa | Georgia | State Program | 4 | 905 | | |
| TestAmerica Tampa | USDA | Federal | | P330-11-00177 | | |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

| Method | Method Description | Protocol | Laboratory | | | | | | |
|----------------|-------------------------------|----------|------------|--|--|--|--|--|--|
| 6010B | Metals (ICP) | SW846 | TAL TAM | | | | | | |
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL TAM | | | | | | |
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL TAM | | | | | | |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL TAM | | | | | | |
| Field Sampling | Field Sampling | EPA | TAL TAM | | | | | | |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates,

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Sample Summary

Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47461-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|---------------------------|--------------|----------------|----------------|
| 660-47461-1 | DUPLICATE NOT BLANK 47461 | Ground Water | 05/03/12 00:00 | 05/03/12 14:10 |
| 660-47461-2 | BLANK EQUIPMENT 47461 | Ground Water | 05/03/12 09:30 | 05/03/12 14:10 |
| 660-47461-3 | TH-73 | Ground Water | 05/03/12 11:19 | 05/03/12 14:10 |
| 660-47461-4 | TH-58 | Ground Water | 05/03/12 10:48 | 05/03/12 14:10 |
| 660-47461-5 | TH-57 | Ground Water | 05/03/12 12:03 | 05/03/12 14:10 |
| 660-47461-6 | TH-30 | Ground Water | 05/03/12 10:20 | 05/03/12 14:10 |
| 660-47461-7 | TH-28A | Ground Water | 05/03/12 11:43 | 05/03/12 14:10 |
| 660-47478-1 | TH-40 | Ground Water | 05/04/12 09:26 | 05/04/12 15:35 |
| 660-47478-2 | TH-72 | Ground Water | 05/04/12 11:04 | 05/04/12 15:35 |
| 660-47478-3 | SUP 2 | Ground Water | 05/04/12 13:00 | 05/04/12 15:35 |
| 660-47478-4 | TH-19 | Ground Water | 05/04/12 12:21 | 05/04/12 15:35 |
| 660-47478-5 | TH-42 | Ground Water | 05/04/12 11:56 | 05/04/12 15:35 |
| 660-47478-6 | SUP 1 | Ground Water | 05/04/12 13:27 | 05/04/12 15:35 |



660-47461

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET SOUTHEAST LANDFILL WELL MONITORING PROGRAM

MONITORING WELLS DUPLICATE SAMPLE DATE | TIME PRECLEANED SAMPLE CONTAINERS: REP. OF CONTRACT LAB. RELINQUISHED BY: Clata REP. OF SOLID WASTE DEPT. 5. 2.12 | 2:30 ACCEPTED BY: SAMPLE MATRIX: WATER OTHER MATRIX: LOCATION: DUPLICATE PERSONAL ENGAGED IN SAMPLE COLLECTION : □ A.Balloon □ FIELD PARAMETERS: N/A SAMPLE CONTAINERS PRESERVED OTY CONTAINER DESCRIPTION CONTAINER DESCRIPTION 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml GLASS 250 ml. PLASTIC 125 ml. PLASTIC 125 ml GLASS 250 ml. PLASTIC 250 ml. GLASS 250 ml. GLASS 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. GLASS 500 ml. GLASS LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS BACTERIAL BACTERIAL TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE | TIME ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: DATE | TIME REP. OF SOLID WASTE DEPT. 5, 3./2 3:35 RELINQUISHED BY: ACCEPTED BY: REP. OF CONTRACT LAB.

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET SOUTHEAST LANDFILL WELL MONITORING PROGRAM

COMMENT'S: wo # 0059

5.22 CU07

18

660-47461

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET SOUTHEAST LANDFILL WELL MONITORING PROGRAM MONITORING WELLS BLANK, EQUIPMENT

| PREC | CLEANED SAMPLE CONTAINERS | <u>:</u> | | DATE TIME |
|----------|--|----------|--|---------------------------------------|
| RELI | INQUISHED BY: | | REP. OF CONTRACT LAB. | |
| ACC | EPTED BY: A: Clata | - | REP. OF SOLID WASTE DEP | T. 5, 2.121 2.'30 |
| | ATION: BLANK, EQUIPMENT SONAL ENGAGED IN SAMPLE C | | SAMPLE MATRIX: WATER OT | |
| | <u> </u> | FIELD P | ARAMETERS: N/A | • |
| | | SAMPL | E CONTAINERS | |
| QTY | CONTAINER DESCRIPTION | QTY | CONTAINER DESCRIPTION | PRESERVED |
| | 40 ml VIAL | | 40 ml VIAL | |
| | 125 ml. PLASTIC | | 125 ml. PLASTIC | |
| | 125 ml GLASS | 1 | 125 ml GLASS | |
| 12. | 250 ml. PLASTIC | 12 | 250 ml. PLASTIC | |
| | 250 ml. GLASS | | 250 ml. GLASS | |
| | 500 ml. PLASTIC | | 500 ml. PLASTIC | |
| | 500 ml. GLASS | | 500 ml. GLASS | |
| | LITER PLASTIC LITER GLASS | | LITER PLASTIC | |
| — | BACTERIAL | | LITER GLASS BACTERIAL | |
| لللنا | DACIERIAL | ! | BACTERIAL | |
| | TOTAL No. OF SAMPLES | COLLE | CTED: | COLLECTED DATE TIME 5.3, (2 9:3c) |
| _ | | | IS REQUESTED: | |
| A | MMONIA-NITROGEN CHLORIDE | SODIUM | TDS Iron Arsenic | |
| PRE | SERVED SAMPLES PH < 2.0 _ | 1 | SAMPLE STORAGE: COOLER | R & ICE TO 4.0 c |
| REL | VE LISTED SAMPLES: INQUISHED BY: EPTED BY: Culling | hulty | REP. OF SOLID WASTE DEE REP. OF CONTRACT LAB. | DATE TIME S.3.12 2:/0 |
| COM | MENT'S: <u>₩0 # 0059</u> | | | |
| | | • | | |

Æ

| CCEP' | QUISHED BY: TED BY: | | | | | CONTRACT | | |
|------------------------|--|-------------------------|------------------|--|-------------------|----------------------------|----------------------|---|
| | TED BY: | Ain C | la t | | | | | |
| OCAT | | | 1/L_1/2 | | REP. OF | SOLID W | ASTE DEPT | . <u>5,2,12 2:30</u> |
| ERSO | TAME MR 73 | *** 00#077f | = 1 | | CAMDIE 1 | ΑΣΦΟΤΥ• Έ ΑΤ | ATER OTH | ER MATRIX: |
| ソド・スー・・ | LON: TH-13 | WACS#Z//S | E COLL | י דיריים: די | ON TO | A Balloon | R J. Clar | er matrix: |
| | NAL ENGAGEL |) IN SAMEI | TE CODI | THOT I | OI4 <u>up 1</u> | A. Dalloon | | |
| OTAL DEPTH LENGT | DIAMETER: 2 DEPTH OF W TO WATER: H OF WATER IE TO PURGE: | VELL: 43. SOL: 10. | .40 77 (e3 | Ft. |]] | PURGE RATI PURGE ENDI | E: ED: PURGED: | DATE TIME 5.3./2/11:09 0.30 GPM. DATE TIME 5.3./2/11:19 3.00 GAL. 35.49 |
| | | | <u> </u> | IELD | PARAMET | ERS: | | |
| | BY | TIME | TEM | | COND | PH | I DO | TURB |
| | 19335 | | 24.9 | | 283 | 4.86 | 1.07 | G.11 = |
| | AB 10 | | 24. | | 283 283 | 4.81 | 0.90 | 4.97 <u> </u> 6.47 |
| | AB 10 | 11:17 | 24. | 1 20 | 26 3 | 1 6.80 | 0.11 | <u> 4.7</u> |
| | | | S | SAMPL | E CONTA | NERS | | |
| QTY | CONTAINE | R DESCRIPTI | ON | QTY | CONT | AINER DESCR | IPTION | PRESERVED |
| - | 40 | ml VIAL | AT. | | | 40 ml VIA | <u> </u> | |
| | | 1. PLASTIC | | \vdash | 125 ml. PLASTIC | | | |
| | 125 | ml GLASS | | | 125 ml GLASS | | | |
| 1 | | 1. PLASTIC | | 2 | | 50 ml. PLAS 250 ml. GLA | | |
| | 250 r | ml. GLASS l. PLASTIC | | <u> </u> | | 00 ml. PLAS | TTC | |
| | | ml. GLASS | | | | 500 ml. GLA | | |
| | | R PLASTIC | | | · | LITER PLAST | IC. | |
| - | | ER GLASS | | | | LITER GLAS | | |
| | BA | CTERIAL | | | | BACTERIAI | 4 | |
| | Y TOTAL N | | · | | CTED: IS REQUE | STED: | | COLLECTED DATE TIME 5,3, 2 //:/9 |
| A | MMONIA-NITR | OGEN CHLC | RIDE S | ODIU | M TDS Ir | on Arseni | <u>.c</u> | |
| PRES | ERVED SAMPI | ES PH < 2 | 2.0 <u> </u> | | SAMPLE | STORAGE: | COOLER | & ICE TO 4.0 c |
| ABOV | E LISTED SA NQUISHED BY PTED BY: | MPLES: | latu | Auli | REP. C | F SOLID W | ASTE DEP | DATE TIME 5.3.12 7:10 5.3.12 2:10 |
| | | _ | • • • • | | ı | | | |
| | ENT`S: <u>wo</u> | _ | • • • • | | | | | |

| PRECLEANED SAMPLE CONTAINERS: | | | | | DATE TIME |
|--|--------------------|--|---|----------------------|---|
| RELINQUISHED BY: | | REP. | OF CONTRAC | T LAB. | |
| ACCEPTED BY: Lin Classon | | REP. | OF SOLID W | ASTE DEPT | . 5. 2.12 2:30 |
| LOCATION: TH-58 WACS# 1571 PERSONAL ENGAGED IN SAMPLE COLI | ; | SAMPLE | E MATRIX: W | ATER OTH | ER MATRIX: |
| WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 32.92 DEPTH TO WATER: 28.74 LENGTH OF WATER COL: 4.18 VOLUME TO PURGE: 0.607 | Ft. Ft. Gal. | | PURGE STA PURGE RAT PURGE END ACT. VOL. Draw Down | E: ED: PURGED: | DATE TIME 5, 9, 12 10: \$5 0, 20 GPM. DATE TIME 5, 9, 12 10: 48 3,00 GAL. 29,16 |
| <u>_</u> | TEPD | PARAM | ETERS: | - | |
| BY TIME TEM | | COND | | DO 0.47 | TURB 0.97 = |
| AB JC 10:44 25. | | <i>563</i> 552 | 5.49 | 0.48 | 0.54 |
| | | 540 | | 0.43 | 0.69 |
| • | | | | | |
| | | , | AINERS ONTAINER DESCR | TOUTON | PRESERVED |
| QTY CONTAINER DESCRIPTION | QTY | | 40 ml VIA | | PRESERVED |
| 40 ml VIAL 125 ml. PLASTIC | | | 125 ml. PLAS | | |
| 125 ml GLASS | | | 125 ml GLA | | |
| / 250 ml. PLASTIC | 2 | | 250 ml. PLAS | | |
| 250 ml. GLASS | | | 250 ml. GLA 500 ml. PLAS | | |
| , 500 ml. PLASTIC 500 ml. GLASS | ļ | | 500 ml. GLA | | |
| LITER PLASTIC | | | LITER PLAST | | |
| LITER GLASS | | | LITER GLAS | | |
| BACTERIAL | l | l | BACTERIA | <u>L</u> | |
| TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5.3.12 10:48 ANALYSIS REQUESTED: | | | | | |
| AMMONIA-NITROGEN CHLORIDE SOD | TIM T | DS T∽ | on Arsenia | | |
| THORIN HILLOGEN CHICKIDE SOL | <u> </u> | <u> </u> | on wracure | | |
| PRESERVED SAMPLES PH < 2.0 | | SAMP | LE STORAGE: | COOLER | & ICE TO 4.0 c |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: | to ulty | | OF SOLID W | | DATE TIME 5.3, 12 2:/6 5.3, 12 2:/6 |
| COMMENT'S: wor oos9 | | | | | |
| | | | | | |

| PRECLEANED SAMPL | E CONTAIN | NERS: | | | | | DATE I | IME |
|--|---|---|---------------------------|-------------|--|-------------------------------|--|----------------------|
| RELINQUISHED BY: | | | | REP. O | CONTRACT | LAB. | | |
| ACCEPTED BY: | Ai a | ata | | REP. O | SOLID WA | ASTE DEPT | . 5.2.1212 | :30 |
| ACCEPTED BY: Air Class REP. OF SOLID WASTE DEPT. LOCATION: TH-57 WACS# 1570 SAMPLE MATRIX: WATER OTHE | | | | | | ER MATRIX: | | |
| PERSONAL ENGAGE | IN SAMP | LE COLI | LECTI | ON <u>G</u> | Á.Balloon | M. M. Clay | ton 0 | |
| WELL DIAMETER: 2 TOTAL DEPTH OF V DEPTH TO WATER: LENGTH OF WATER VOLUME TO PURGE: | 2.0 INCH: VELL: 26. 26.7 COL: 68 | 3 2.1 2 92 421.45 38 | Ft. Ft. Ft. Gal. | | PURGE STAI PURGE RATI PURGE ENDI ACT. VOL. Draw Down | RTED: E: ED: PURGED: | DATE TI 5, 3, 13 //2 0:25 GE DATE TI 5,3, 12 //2 | ME SS M: ME |
| | | <u>F</u> | IELD | PARAMET | ERS: | | | |
| ВУ | TIME | TEM | | -COND- | PH | l DO | TURB | - |
| AB JC | 11:59 | 25.9 | | 144 | 4.80 | 0.49 | 2.93 = 3.75 | |
| AB JC | | 25.8 | | 152 | 487 | 0.34 | 2.24 | |
| AB JC | 12.53 | 1 62.5 | / | | · • • • • • • • • • • • • • • • • • • • | | 1 2.4 | |
| | | · s | AMPLI | E CONTA | NERS | | | |
| QTY CONTAINE | R DESCRIPTI | ON | QTY | CONT | AINER DESCR | IPTION | PRESERVED | |
| | ml VIAL | | | | 40 ml VIA | | | |
| | L. PLASTIC | | | 1 | 25 ml. PLAS | | | |
| | ml GLASS | | 2 | | 125 ml GLAS | | | |
| | nl. GLASS | | | | 250 ml. GLA | | | 1 |
| 500 m | L. PLASTIC | | | 5 | 00 ml. PLAS | | |] |
| | nl. GLASS | | | | 500 ml. GLA LITER PLAST | | | - |
| | R PLASTIC ER GLASS | | | | LITER GLAS | | | - |
| | CTERIAL | | | | BACTERIAL | | | |
| Z TOTAL N | o. OF SAM | | | CTED: | STED: | | COLLECTION DATE S. 3, 12 1 | TIME |
| AMMONIA-NITROG | EN CHLORI | DE SOD | I MUI | DS Iron | Arsenic | | | |
| PRESERVED SAMPL | ES PH < 2 | 2.0 | • | SAMPLE | storage: | COOLER | & ICE TO 4 | .0 с |
| ABOVE LISTED SA RELINQUISHED BY ACCEPTED BY: | | Clat | Tulti | REP. C | F SOLID W F CONTRAC | ASTE DEPT T LAB. | DATE 5.5 . 1 . 5.5 . 1 . 5 . 5 . 5 . 5 . 5 . | |
| COMMENT'S: W | o# 005 | 9 | | | | | •• | |
| | | | | | | | | |
| HI | | | | | SOLID WAS | | HEET | |

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

| PRECLEANED SAMPLE CONTAINERS: | | | | DATE TIME | |
|---|--------------------|------------------------------------|------------------------------------|---|--|
| RELINQUISHED BY: | | REP. OF CONTRA | CT LAB. | | |
| ACCEPTED BY: 1. Clafor | | REP. OF SOLID | WASTE DEPT | . 5.2,12 2:30 | |
| LOCATION: TH-30 WACS# 1065 PERSONAL ENGAGED IN SAMPLE COL | | SAMPLE MATRIX: | WATER OTH | ER MATRIX: | |
| WELL DIAMETER: 2.00 INCH: TOTAL DEPTH OF WELL: 46.19 DEPTH TO WATER: 24.35 LENGTH OF WATER COL: 24.84 VOLUME TO PURGE: 3.49 | - Ft. Ft. | PURGE ST PURGE RA . PURGE EN | ARTED: TE: DED: . PURGED: | DATE TIME 5.3./2/6:09 0.70 GPM. DATE TIME 5.3./2/0:26 | |
| | FIELD | PARAMETERS: | | no de | |
| AB JC 10:14 28. AB JC 10:18 23. AB JC 10:20 23. | 43 42 40 | 427 4.02 431 4.01 | DO 1.75 2.07 1.93 | TURB 6.48 = 0.28 0.19 | |
| OTY CONTAINER DESCRIPTION | OTY | CONTAINERS CONTAINER DESC | RIPTION | PRESERVED | |
| 40 ml VIAL | 2 | 40 ml VI | | | |
| 125 ml. PLASTIC | | 125 ml. PLA | | | |
| 125 ml GLASS 250 ml. PLASTIC | 2 | 125 ml GLi 250 ml. PLA | | | |
| 250 ml. GLASS | | 250 ml. GL | ASS | | |
| 500 ml. PLASTIC | | 500 ml. PLA 500 ml. GI | | | |
| 500 ml. GLASS LITER PLASTIC | ļ | LITER PLAS | | | |
| LITER GLASS | | LITER GLA | | | |
| BACTERIAL | <u> </u> | BACTERIA | L. | | |
| TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5.3, 2 30; 20 | | | | | |
| AMMONIA-NITROGEN CHLORID | E SOD | OUM TDS Iron Ar | senic | | |
| PRESERVED SAMPLES PH < 2.0 | | SAMPLE STORAG | E: COOLER | & ICE TO 4.0 c | |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: | Julta | REP. OF SOLID | WASTE DEP ACT LAB. | T. DATE TIME 5.3.12 2:10 5.3.12 2:10 | |
| COMMENT'S: WO# 0059 | 11,5 | odop | | | |
| | | | | | |

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|-----|---|
| | L |
| | Ľ |
| 240 | |

| PRECLE | EANED SAMPL | E CONTAIN | ERS: | | | | DATE | TIME |
|--|--|-------------|----------------|-------------|-----------------|---------------|-------------|------------------------------|
| RELINÇ | QUISHED BY: | | | _ REP. | OF CONTRACT | C LAB. | | |
| ACCEPT | red BY: | di C | latin | _ REP. | OF SOLID W | ASTE DEPI | 5.2.12 | 2:30 |
| LOCATI | ION: TH-28A | WACS# 19 | 862 | SAMPLE | : MATRIX: W | ATER OTH | IER MATRIX: | |
| PERSON | NAL ENGAGED | IN SAMPI | E COLLECT | ICN _0 | A.Balloon | & Siclay | m □ | |
| WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 34.30 Ft. PURGE STARTED: DEPTH TO WATER: 29.4% Ft. PURGE RATE: LENGTH OF WATER COL: 4.62 Ft. VOLUME TO PURGE: 6.37 Gal. PURGE ENDED: | | | | | | | DATE T | 7: 92. PM. IME : 43 |
| | | | FIEL | D PARAM | ETERS: | | | |
| | ВУ | TIME | TEMP | -COND- | — —₽ H — | DO | TURB | |
| | | 11:39 | | 308 | | 2.16 | 7.97 = | |
| | 51. BA | | 24.62 | | | 1.44 | 7.39 | |
| | AB 32 | 11:41 | 24.45 | 307 | 5.15 | | | |
| | AB SC | 11:43 | ZL.Ce4 | 305 | 5.13 | 1.32 | 7.15 | |
| | | | - | | | | | |
| | | | SAMP | LE CONT | AINERS | | • | |
| | | | | | | | DOMESTICAL | } |
| QTY | CONTAINER | DESCRIPTION | YTQ N | CON | TAINER DESCRI | PTION | PRESERVED | |
| | 40 | 1 (17.5.5 | | | 40 ml VIAL | | | 1 |
| l | *· | l VIAL | | | | | | ł |
| | 125 ml | . PLASTIC | | _ <u></u> | 125 ml. PLAS | | | |
| | 125 m | l GLASS | | | 125 ml GLAS | | | 1 |
| | | . PLASTIC | '2- | | 250 ml. PLAS | TIC | | |
| | | 1. GLASS | | | 250 ml. GLA | SS | |] |
| | | . PLASTIC | | | 500 ml. PLAS | | | i |
| | | | | | 500 ml. GLA | | | 1 |
| | | 1. GLASS | | | LITER PLAST | | | 1 |
| | | PLASTIC | | _ | | | | - |
| | | R GLASS | | | LITER GLAS | | | - |
| | BAC | TERIAL | | | BACTERIAL | | <u> </u> | |
| 4 | TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5.3.12 11:43 ANALYSIS REQUESTED: | | | | | | | |
| 21066 | | EN CHIODI | DE CODIUM | mne T- | on Arsenia | | | |
| AMMC | ONIA-NITROG | TH CUTOKT | DE BODION | 100 11 | on around | | | |
| PRESE | ERVED SAMPL | ES PH < 2 | .c 🗸 | SAMP | LE STORAGE: | COOLER | & ICE TO | 4.0 c |
| | | | | | | | | |
| ABOVE | E LISTED SA | MPLES: | ^/ . | | | | DATE | |
| RELIN | NOUTSHED BY | . 1. 1 | Water. | REP. | OF SOLID V | NASTE DEE | T. 5, 3, 12 | 7:10 |
| ACCEL | ישטר בעי | - The same | TO VAV. TAILAL | DED | OF CONTRAC | T LAB. | 5 3.12 | 7110 |
| MCCER | CIED Di. | | E THE YIMLA | 9— ```. | 02 00012141 | | <u> </u> | |
| | | | | ī | | | | |
| | | | | | | | | |
| COMME | ENT`S: WU | 件 005 | 9 | | | | | |
| | <u>~ U</u> | | | | | | . / | |
| | | | | | | | 4.1 | 11.107 |
| | | | | | | | | - MM |
| | | | | | | | | |
| | | | | | | | | |
| | μT | T.T.SBOROUG | וי רטווגידע | DEPT O | F SOLID WAS | TE COC S | HEET | |
| | nı. | THOUSTONG | . COONTI | v | | | | |

Page: 1

Date: 05/04/2012

Login Sample Summary

| | • | | | Status | | Location |
|--------------------------------|---|------------------|------------------|----------------------------|-----|----------|
| Login No: Project: Site: | 47461 Login Date: 66003915 Southeast Landfill | 05/03/2012_14:10 | VTSR: NO | Active Active Active | 660 | |
| | Robertson, Nancy | Prj Mgr Asst: | McCaughey, Becky | | | |

Login Group: 1 NH3,TDS,CL,6010 Special Wells

Method Description
350.1 Nitrogen, Ammonia
200.0 28D Anione Ion Chromas

300.0 28D Anions, Ion Chromatography 2540C Solids, Total Dissolved (TDS)

FieldSam Field Sampling 6010B Metals (ICP)

3005A Preparation, Total Recoverable or Dissolved Metals

Sample Distribution

| Sample # | Customer Sample ID | Matrix | Sample Date | Received Date | Login Group |
|----------|---------------------|--------|-------------------|-------------------|-------------|
| 1 | DUPLICATE NOT BLANK | Water | 05/03/2012 | 05/03/2012 -14:10 | 1 |
| 2 | BLANK EQUIPMENT | Water | 05/03/2012 -09:30 | 05/03/2012 -14:10 | 1 |
| 3 | TH-73 | Water | 05/03/2012 -11:19 | 05/03/2012 -14:10 | 1 |
| 4 | TH-58 | Water | 05/03/2012 -10:48 | 05/03/2012 -14:10 | 1 |
| 5 | TH-57 | Water | 05/03/2012 -12:03 | 05/03/2012 -14:10 | 1 |
| 6 | TH-30 | Water | 05/03/2012 -10:20 | 05/03/2012 -14:10 | 1 |
| 7 | TH-28A | Water | 05/03/2012 -11:43 | 05/03/2012 -14:10 | 1 |

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

| PRE | CLEANED SAMPI | E CONTAI | NERS: | | | | DATE | TIME | |
|--|--|--------------------|-------------|---------------------------|---------------------------|------------|------------------|------|--|
| REL | INQUISHED BY: | · . | | REP. C | F CONTRAC | CT LAB. | | | |
| ACC | EPTED BY: | din (| lastor | REP. C | F SOLID W | VASTE DEPI | r. <u>5.2.12</u> | 2:30 | |
| ACCEPTED BY: REP. OF SOLID WASTE DEPT. 5.2.12 2:30 LOCATION: TH-40 WACS# 822 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION DA. Balloon D. J. Clayton D. | | | | | | | | | |
| WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 165.90 Ft. PURGE STARTED: 5.4:(2) 9:15 DEPTH TO WATER: 120.91 Ft. PURGE RATE: 1.00 GPM. LENGTH OF WATER COL: 44.91 Ft. VOLUME TO PURGE: 7.20 Gal. PURGE ENDED: 5.4:(2) 9:26 ACT. VOL. PURGED: 16.00 GAL. Draw Down: 121.00 | | | | | | | | | |
| | <u>B</u> Y | TIME | TEMP | COND | PH | l DO | TURB | | |
| | AB 321 | | 23.42 | 399 | 7.21 | 0.78 | 0.18 | : | |
| | | 9:24 | 23.43 | 402 | 17.25 | 0.54 | 10,00 | | |
| | AB Jel | 9:24 | 23,44 | 888 | 7.29 | 10.47 | 0.06 | • | |
| | | | SAMT | PLE CONTA | TNERS | | | | |
| QTY | CONTAINER | DESCRIPTION | · | | AINER DESCR | TRUTON | PRESERVED | 7 | |
| | 40 ml | | A1 Q11 | CONT | | | PRESERVED | | |
| | | PLASTIC | | 1, | 40 ml VIAL 25 ml. PLAS | | | _ | |
| | 125 m] | GLASS | | | 125 ml GLASS | | | | |
| 1 | | PLASTIC | 2 | | 0 ml. PLAS | | | - | |
| | | . GLASS | | | 250 ml. GLA | ss | | ┪ | |
| , | | PLASTIC | | | 00 ml. PLAS | | | | |
| | T.TTER | . GLASS PLASTIC | | | 00 ml. GLA | | | | |
| | | GLASS | | LITER PLASTIC LITER GLASS | | | | | |
| | BACT | ERIAL | | | BACTERIAL | | | - | |
| | TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5.4.121 9:24 | | | | | | | | |
| | | | ANALY | SIS REQUE | STED: | | | | |
| AM | AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic | | | | | | | | |
| PRES | PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 C | | | | | | | | |
| REL | ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. SALVE 3:35 | | | | | | | | |
| COM | COMMENT'S: <u>UC # 6659</u> H2S other 5.2C(0-07) | | | | | | | | |

13

| PRE | CLEANED SAMP | LE CONTAI | NERS: | | | | | DATE TIME | | |
|---|---|-----------------------|----------|--------------|--|-----------------------|-----------|-------------|--|--|
| REL | INQUISHED BY | : _ | | | REP. | OF CONTRA | CT LAB | | | |
| ACC | EPTED BY: | 1. | | | | | | | | |
| | ACCEPTED BY: Air Claffer REP. OF SOLID WASTE DEPT. 512 2:3c | | | | | | | | | |
| LOCATION: TH-72 WACS# 27753 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION D'A.Balloon & A.C. C. | | | | | | | | | | |
| E C. C. | SONAL ENGAGE | D IN SAME | LE COI | LLECT | ION <u>I</u> | A.Balloc | n & 1.Cl | estal | | |
| WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 190.00 Ft. PURGE STARTED: 5.4.121 10-42 10 DEPTH TO WATER: 127.15 Ft. PURGE RATE: 0.50 GPM. LENGTH OF WATER COL: 42.85 Ft. VOLUME TO PURGE: 10-10 Gal. PURGE ENDED: ACT. VOL. PURGED: 12.00 GAL. Draw Down: 127.27 | | | | | | | | | | |
| | | | | FIELD | PARAME | TERS: | | | | |
| | BY | TIME | TEM | œ i | | · lPH | l DO | TURB | | |
| | DB 15 | | 1. 23,4 | | 733 | 16.91 | 203 | 1.14 = | | |
| | AB JC | | 23.4 | | 740 | 14.90 | 1.54 | 10.97 | | |
| | ABIE | 11:04 | 23.4 | 6 | 744 | 14.90 | 1640 | 0.81 | | |
| | | | 9 | TOMES. | E CONTA | THERE | | | | |
| QTY | CONTAINER | R DESCRIPTI | | QTY | 7 | TAINER DESC | DIDMION | 777.077 | | |
| <u> </u> | | ml VIAL | - | | | 40 ml VII | | PRESERVED | | |
| | | . PLASTIC | | | | 125 ml. PLA | | | | |
| | 125 1 | ml GLASS | | | | 125 ml GL | | | | |
| | | . PLASTIC | | 2 | | 250 ml. PLA | | | | |
| | 250 m | l. GLASS . PLASTIC | | | | 250 ml. GLASS | | | | |
| | | 1. GLASS | | | | 500 ml. PLASTIC | | | | |
| | LITER | PLASTIC | | | | 500 ml. GL | | | | |
| | LITE | R GLASS | | | | LITER PLAS | | | | |
| | | TERIAL | | | | LITER GLA BACTERIA | | | | |
| | | | | L | <u> </u> | DACIERIA | <u> </u> | | | |
| Colors and Sheens Collected: Colors and Sheens Collected: Collected: DATE TIME S.4.12 11:04 | | | | | | | | | | |
| | | | | | S REQUE | | | | | |
| <u>A</u> | MMONIA-NITRO | GEN CHLOR | RIDE S | ODIUM | TDS Ir | on Arseni | <u>.c</u> | | | |
| PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: _COOLER & ICE TO 4.0 c | | | | | | | | | | |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 5.4, 121 8:35 REP. OF CONTRACT LAB. S.4, 12 3:35 | | | | | | | | | | |
| COMMI | ENT'S: wa | # 0050 | <u> </u> | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

TK.

| - | QUISHED BY: | | | | | | | |
|--|--------------------------------------|------------|-------------------|-------|----------|-------------------------|-------------------|---|
| CCEPT | | | | | REP. O | CONTRAC! | r LAB. | |
| | TED BY: | de Co | atr | | REP. O | s SOLID W | ASTE DEPT | . 5.2/2 2:3 |
| ጎሮልጥ፣ | ION: SUP 2 1 | | • | | | | | ER MATRIX: |
| | NAL ENGAGED | | | | | | | |
| | | • | • | | | | | 9. |
| | VOLUME TO PIL PURGE TIME | | | | PURGE : | STARTED: I | DATE <u>5. 4.</u> | 17 TIME 12:4 |
| 21 OUT | n ronon iin | · | _ ''' | • | | ٠ | | |
| | | | F | IELD, | PARAMET | ERS: | | |
| | BY | TIME | TEM | P [| COND | PH | DO DO | TURB |
| | AB 751 | 12:56 | _24. 4 | | 364 | 7.41 | 0.3 | 0.06 = |
| | AB JC | 12:58 | 24.7 | | 344 | 7.44 | a. 23 | 0:00: |
| | AB SE | 1:00 | 24.7 | | 364 | 7.4.5 | 0.17 | 6.00 |
| | | • • • | S | AMPLI | CONTAI | NERS | • | |
| TY | CONTAINER | DESCRIPTIO | | QTY | | AINER DESCR | IPTION | PRESERVED |
| | | l VIAL | | | | 40 ml VIAI | | |
| 125 ml. PLASTIC | | | | | 1 | 25 ml. PLAS | | |
| 125 ml GLASS | | | | | 2 | 125 ml GLAS | | |
| <u></u> | 250 ml. PLASTIC 2- 250 ml. GLASS | | | | | 250 ml. GLA | | |
| , | | . PLASTIC | | | 1 | 00 ml. PLAS | | ···· |
| | | 1. GLASS | | | | | | |
| | | PLASTIC | | | <u> </u> | | | |
| | LITE | R GLASS | | | | LITER GLAS | | |
| | BAC | rerial . | | | | BACTERIAL | | |
| TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5:4,7\gequiv 1:00 | | | | | | | | |
| MMON: | IA-NITROGEN | CHLORIDE | SODI | UM TE | S Iron | Arsenic | | • |
| RESEI | RVED SAMPLE | S PH < 2. | <u>ردر</u> 0 | | SAMPLE | STORAGE: | COOLER | & ICE TO 4.0 |
| ELING | LISTED SAM QUISHED BY: TED BY: | PLES: | lata h | | | F SOLID W. F CONTRAC | | DATE TIN 5. 4.72 3:3 5.4 2 3:3 |
| OMME | NT`S: <u>ω</u> ο | 许005 | 9 | | | | | · |

| PRE | CLEANED SAMP | LE CONTAI | NERS: | | | | | DATE TIM | Œ | |
|--------------------------|---|-------------------------------|---------------------------------------|--|--------------|---|-------------------------------|---|----------|--|
| REI | INQUISHED BY | • | | | _ REP. C | F CONTRAC | T LAB. | | _ | |
| ACC | EPTED BY: | Li Cl | atro | · | _ REP. C | F SOLID W | ASTE DEP | T. <u>5.2.12 Z. a</u> | - } o | |
| LOC | ATION: TH-19 | WACS# 82 | 1 1 | | SAMPLE | MATRIX: W | ATER OT | HER MATRIX: | | |
| PER | SONAL ENGAGE | D IN SAMP | LE CO | LLECT | ION D | A.Balloon | BJ Clay | ton 0 | _ | |
| WEL TOT DEP LEN | L DIAMETER: 2 PAL DEPTH OF V TH TO WATER: GTH OF WATER UME TO PURGE: | 2.0 INCH: NELL: 15 IZ | 3.60 4.10 | Ft. Ft. Ft. Gal | • | PURGE STATE PURGE RATE PURGE ENDI ACT. VOL. Draw Down | RTED: E: ED: PURGED: | DATE TIME 5.4./2 /21/3 1.00 GPM DATE TIME 5.4. /2 /2:2/ | <u>.</u> | |
| | | | | FIELI |) PARAME | TERS: | | | | |
| | BY | TIME | <u> </u> | MP | COND | PH | DO | TURB | | |
| | ABJE | | 23. | | 400 | 7.06 | Ø.13 | 0.10 = | | |
| | AB 15 | | 23.4 | 16 | 401 | 1 4.88 | | 0.00 | | |
| | AB JC | 12:21 | 23.4 | 461 | 402 | 1 4.85 | 0.10 | 6.00 | | |
| | | | | SAMPI | LE CONTA | INERS | | | | |
| QTY | CONTAINER | DESCRIPTIO | N | QTY | | AINER DESCRI | PTION | PRESERVED | | |
| | 40 m | 1 VIAL | | - | | 40 ml VIAL | | | | |
| | | PLASTIC | · · · · · · · · · · · · · · · · · · · | <u> </u> | 12 | 25 ml. PLAST | ĪC. | | | |
| | 125 m | l GLASS | | | | 125 ml GLASS | | · · · · · · · · · · · · · · · · · · · | | |
| | 250 ml. | PLASTIC | | 2 | 25 | 250 ml. PLASTIC | | | | |
| | | . GLASS | | | | 250 ml. GLAS | S | | | |
| | 500 ml. | PLASTIC | | | 5(| 00 ml. PLAST | IC | | | |
| | 200 mT | . GLASS | | | 7, 5 | 500 ml. GLASS | | | | |
| | TITER | PLASTIC GLASS | | | | LITER PLASTIC | | | | |
| | BACT | ERIAL | <u> </u> | <u> </u> | | LITER GLASS | | | | |
| | DACI | ENIAL | | <u> </u> | | BACTERIAL | | | | |
| | TOTAL No | OF SAM | | | | | | COLLECTED DATE TIM 5 4, 12 12 21 | | |
| | | | Al | NALYS | IS REQUE | STED: | | | | |
| AM | MONIA-NITROGE | N CHLORII | E SOI | MUIC | TDS Iron | Arsenic | | | | |
| PRE | SERVED SAMPLE | S PH < 2. | 0 <u>v</u> | | _ SAMPLE | STORAGE: | COOLER | & ICE TO 4.0 | <u>c</u> | |
| REL. | ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. S. 4.12 3:85 REP. OF CONTRACT LAB. | | | | | | | | | |
| COM | MENT'S: ωο | A 00 59 | | • | | | | | | |
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| PRECLEANED SAMPLE CONTAINERS: | | | | | DATE TIME | | | |
|---|--|------------------------------------|---------------------------|-----------|------------------|--|--|--|
| RELINQUISHED BY: | | REP. OI | CONTRAC | T LAB. | i | | | |
| ACCEPTED BY: Air Clay | ton | REP. OI | SOLID W | ASTE DEPI | F. S. 217 12:30 | | | |
| • | | | | • | | | | |
| LOCATION: TH-42 WACS# 823 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION DA. Balloon 2 1. Clay to D | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | 5550110 | ·· <u> </u> | , | <u> </u> | 7100 = | | | |
| WELL DIAMETER: 2.0 INCH: DATE TIME | | | | | | | | |
| TOTAL DEPTH OF WELL: 164.00 Ft. PURGE STARTED: 5.4.12 11:32 DEPTH TO WATER: 95.90 Ft. PURGE RATE: 0.50 GPM. | | | | | | | | |
| LENGTH OF WATER COL: 68.10 Ft. * DATE ! TIME : | | | | | | | | |
| VOLUME TO PURGE: 10.90 | | 1 | PURGE END | ED: | 5.4.12 11:56 | | | |
| | | Į. | ACT. VOL. Draw Down | PURGED: | 12.00 GAL. | | | |
| | | | iaw Down | • | · <u>"//4.52</u> | | | |
| ÷ . | FIELD E | PARAMET | ERS: | • | • | | | |
| BY TIME TE | MP | COND | PH | l DO | TURB | | | |
| AB SE 11:52 23.6 | · | S)ı | 7.05 | 3.24 | 4.43 = | | | |
| AB JC h:54 23.8 | r(! : | \$JI · | 7.04 | 3,04 | 14.80 | | | |
| AB JOI 11:54 23.2 | 50 5 | લ | 7.07 | 2.62 | 14.74 | | | |
| | SAMPLE | СОМТАТ | , Neds | | | | | |
| QTY CONTAINER DESCRIPTION | QTY | | INER DESCRI | PTTON | PRESERVED | | | |
| 40 ml VIAL | 2 | | 40 ml VIAL | | | | | |
| 125 mF. PLASTIC | - | | ml. PLAST | | | | | |
| 125 ml GLASS | | 125 ml GLASS | | | | | | |
| 250 ml: PLASTIC . 250 ml. GLASS | 2 | , 250 ml. PLASTIC 250 ml. GLASS | | | | | | |
| 500 ml. GLASS | | | O MI. GLAS O Ml. PLAST | | | | | |
| 500 ml. GLASS | | 50 | 00 ml. GLAS | S | | | | |
| LITER PLASTIC | | | ITER PLASTI | | | | | |
| LITER GLASS BACTERIAL | | | LITER GLASS BACTERIAL | | | | | |
| DIO I INTAL | 1 | | BACTERIAN | | | | | |
| 什 TOTAL No. OF SAMPLES | COLLECT | ED: | | | | | | |
| | | | | | COLLECTED | | | |
| · | | | | ļ | DATE TIME | | | |
| . 70 | NALYSIS | DECITE (| emers. | | 3,4,12/11:56 | | | |
| <u> </u> | NWHIPTO | KEQUE | SIED. | | • | | | |
| AMMONIA-NITROGEN CHLORIDE SO | DIUM TD | S Iron | Arsenic : | Dissolved | d Sodium | | | |
| | | -, | | | | | | |
| Dissolved Iron Dissolved Ars | enic | | | ! | | | | |
| PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: _COOLER & ICE TO 4.0 c | | | | | | | | |
| ABOVE LISTED SAMPLES: | | | | | DATE TIME | | | |
| RELINQUISHED BY: | Fa. ' | REP. O | SOLID W | ASTE DEPT | | | | |
| RELINQUISHED BY: REP. OF SOLID WASTE DEPT. 5.4.1213:35 REP. OF CONTRACT LAB. 5.4.1213:35 | | | | | | | | |
| ALL OF CONTRACT HAB. | | | | | | | | |
| COMMENT'S: WO HOOS9 | | | | | | | | |
| COMMENT 3. WO FOUST | | | | | | | | |
| | | | | | | | | |
| HILLSBOROUGH COU | | T. OF S | | TE COC SI | HEET | | | |

Page 48 of 51

E

| PRECLEANED SAMPLE CONTAINERS | <u>:</u> | | | | DATE | LIME | |
|--|------------------|---------------|----------------------------|--------|------------------------------|------|--|
| RELINQUISHED BY: REP. OF CONTRACT LAB. | | | | | | | |
| ACCEPTED BY: A: Class REP. OF SOLID WASTE DEPT. 5.2.1212:30 | | | | | | | |
| TOCATION: SIID 1 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: | | | | | | | |
| PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon 21. Clayto | | | | | | | |
| WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 5.4.12 TIME 1:08 ACTUAL PURGE TIME: 19 MIN: FIELD PARAMETERS: | | | | | | | |
| | | . : | b . | . 50 | I MITER | · | |
| | EMP | COND- | FH | DO | TURB | | |
| | 4.59 | 348 348 | 7.40 | 0.10 | 6.54 = | • | |
| AB 10 1:27 2 | 4.59 | 348 | | 0.07 | 0.00 | | |
| 05.00 | | LE CONTAI | | | | | |
| QTY CONTAINER DESCRIPTION | QTY | | AINER DESCR | IPTION | PRESERVED | 1 | |
| 40 ml VIAL | - - | - | 40 ml VIAI | | 1 | | |
| 125 ml. PLASTIC | | 1 | 25 ml. PLAS | | | 1 | |
| 125 ml GLASS | | | 125 ml GLAS | | |] | |
| 250 ml. PLASTIC | 2 | | 50 ml. PLAS | | |] | |
| 250 ml. GLASS | | 250 ml. GLASS | | | | 1 | |
| / 500 ml. PLASTIC | | | 00 ml. PLAS 500 ml. GLA | | - | | |
| 500 ml. GLASS LITER PLASTIC | | <u> </u> | | _ | | | |
| LITER PLASTIC LITER GLASS | | | | - | | | |
| BACTERIAL | | | LITER GLAS BACTERIAL | | 7 | | |
| | COLLE | CTED : | | | COLLEC DATE 5.4,12 1 | TIME | |
| | ANALYS | SIS REQUE | STED: | | | | |
| AMMONIA-NITROGEN CHLORIDE SC | DIUM 1 | DS Iron | Arsenic | | | | |
| PRESERVED SAMPLES PH. < 2.0 | V . | SAMPLE | STORAGE: | COOLER | & ICE TO 4 | .0 c | |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. DATE TIME SAMPLES: REP. OF CONTRACT LAB. S.4. 12 3:35 | | | | | | | |
| COMMENT'S: WO # 0059 | | | | | | | |

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-47461-1

Login Number: 47461

List Source: TestAmerica Tampa

List Number: 1 Creator: McNulty, Carol

| Question | Answer | Comment |
|--|--------|-----------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 4.1 deg C Cu-07 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |



Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-47461-1

Login Number: 47478

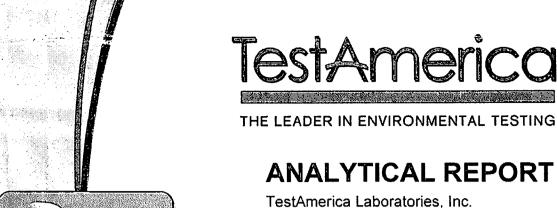
List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

| Question | Answer | Comment |
|--|--------|------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or ampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | 5.2c CU-07 |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| s the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and he COC. | True | |
| Samples are received within Holding Time. | True | |
| ample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| ppropriate sample containers are used. | True | |
| ample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4°) in diameter. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |





TestAmerica Tampa 6712 Benjamin Road Suite 100 Tampa, FL 33634 Tel: (813)885-7427

TestAmerica Job ID: 660-47477-1 Client Project/Site: Southeast Landfill

For:

Hillsborough County Public Utilities Dep Solid Waste Management Group **Brandon Support Operations Complex** 332 North Falkenburg Rd, 2nd Floor Tampa, Florida 33619

Attn: David Adams

Authorized for release by: 5/17/2012 1:57:28 PM

Nancy Robertson Project Manager II

nancy.robertson@testamericainc.com

Review your project results through

Have a Question?

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

Toxicity Equivalent Quotient (Dioxin)

TEQ

TestAmerica Job ID: 660-47477-1

| Qualifiers | | |
|----------------|--|---|
| Metals | | |
| Qualifier | Qualifier Description | |
| Ū | Indicates that the compound was analyzed for but not detected. | |
| J3 | Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria. | |
| i | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. | |
| General Chen | nistry | |
| Qualifier | Qualifier Description | |
| U | Indicates that the compound was analyzed for but not detected. | |
| Glossary | | : |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | : |
| %R | Percent Recovery | |
| CNF | Contains no Free Liquid | |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| EDL | Estimated Detection Limit | |
| EPA | United States Environmental Protection Agency | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| МĎ | Not detected at the reporting limit (or MDL or EDL if shown) | |
| PQL | Practical Quantitation Limit | |
| QC | Quality Control | |
| RL | Reporting Limit | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

Job ID: 660-47477-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-47477-1

Comments

No additional comments.

Receipt

The samples were received on 5/4/2012 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.2° C.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for iron in batch 124218 were outside control limits with the parent sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.



Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Oxygen, Dissolved

Turbidity

Specific Conductance

TestAmerica Job ID: 660-47477-1

Field Sampling

Field Sampling

Field Sampling

Total/NA

Total/NA

Total/NA

| Client Sample ID: TH-74 | · | | | | | La | b Sa | imple ID: | 660-47477- |
|-------------------------|--------|-----------|-------|-------|-----------|---------|-----------------|--------------|-------------|
| Analyte | Result | Qualifier | PQL | MDL | Unit | Dil Fac | D Me | thod | Prep Type |
| Iron | 38000 | J3 | 200 | 50 | ug/L | 1 | _ 60 | 10B | Total |
| | | | | | | | | | Recoverable |
| Sodium | 25 | | 0.50 | 0.31 | mg/L | 1 | 60 | 10B | Total |
| | | | | | | | | | Recoverable |
| Chloride | 110 | | 2.0 | 0.80 | mg/L | 4 | 30 | 0.0 | Total/NA |
| Ammonia as N | 2.8 | | 0.020 | 0.010 | mg/L | 1 | 35 | 0.1 | Total/NA |
| Total Dissolved Solids | 330 | | 10 | 10 | mg/L | 1 | SN | A 2540C | Total/NA |
| Field pH | 5.15 | | | | SU | 1 | Fie | eld Sampling | Total/NA |
| Field Temperature | 21.93 | | | | Degrees C | 1 | Fie | eld Sampling | Total/NA |

mg/L

NTU

umhos/cm

0.86

602

12.5

Client Sample ID: TH-75 Lab Sample ID: 660-47477-2 Analyte Result Qualifier PQL **MDL** Unit Dil Fac D Method Prep Type Arsenic 7.8 i 10 4.0 ug/L 1 6010B Total Recoverable iron 16000 200 50 ug/L 6010B 1 Total Recoverable Sodium 33 0.50 0.31 mg/L 6010B Tctal Recoverable Chloride 120 0.80 mg/L 300.0 Tctal/NA 0.010 mg/L Ammonia as N 0.020 Tctal/NA 1.9 350.1 **Total Dissolved Solids** 350 10 mg/L SM 2540C Tctal/NA 10 Field pH 5.32 SU Field Sampling Total/NA Field Temperature 22.06 Degrees C Field Sampling Tctal/NA Oxygen, Dissolved 0.28 mg/L Field Sampling Total/NA Specific Conductance 588 Field Sampling Tctal/NA umhos/cm Turbidity 0.00 NTU Field Sampling Tctal/NA

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

Lab Sample ID: 660-47477-1

Matrix: Ground Water

Client Sample ID: TH-74
Date Collected: 05/04/12 09:58
Date Received: 05/04/12 15:35

| Method: 6010B - Metals (ICP) | - Total Recoverat | le | | | | | | | |
|--------------------------------|-------------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Arsenic | 4.0 | U . | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:16 | 1 |
| Iron | 38000 | J3 | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:16 | 1 |
| Sodium | 25 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:16 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 110 | | 2.0 | 0.80 | mg/L | | | 05/11/12 11:36 | 4 |
| Ammonia as N | 2.8 | | 0,020 | 0.010 | mg/L | | | 05/10/12 12:28 | 1 |
| Total Dissolved Solids | 330 | | 10 | 10 | mg/L | | | 05/07/12 13:47 | 1 |
| Method: Field Sampling - Field | d Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 5.15 | | | | su | | | 05/04/12 09:58 | 1 |
| Field Temperature | 21.93 | | | | Degrees C | | | 05/04/12 09:58 | 1 |
| Oxygen, Dissolved | 0.86 | | | | mg/L | | | 05/04/12 09:58 | 1 |
| Specific Conductance | 602 | | | | umhos/cm | | | 05/04/12 09:58 | 1 |
| Turbidity | 12.5 | | | | NTU | | | 05/04/12 09:58 | 1 |



Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

Lab Sample ID: 660-47477-2

Matrix: Ground Water

Client Sample ID: TH-75
Date Collected: 05/04/12 10:21

| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------|-----------|-------|-------|-----------|---|----------------|----------------|---------|
| Arsenic | 7.8 | <u> </u> | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:29 | 1 |
| ron | 16000 | | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:29 | 1 |
| Sodium | 33 | | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:29 | 1 |
| General Chemistry | | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 120 | | 2.0 | 0.80 | mg/L | | | 05/11/12 11:52 | 4 |
| Ammonia as N | 1.9 | | 0.020 | 0.010 | mg/L | | | 05/10/12 12:30 | 1 |
| Total Dissolved Solids | 350 | | 10 | 10 | mg/L | | | 05/07/12 13:48 | 1 |
| Method: Field Sampling - Field | i Sampling | | | | | | | | |
| Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Field pH | 5.32 | | | | SU | | | 05/04/12 10:21 | 1 |
| Field Temperature | 22.06 | | | | Degrees C | | | 05/04/12 10:21 | 1 |
| Oxygen, Dissolved | 0.28 | | | | mg/L | | | 05/04/12 10:21 | 1 |
| Specific Conductance | 588 | | | | umhos/cm | | | 05/04/12 10:21 | 1 |
| Turbidity | 0.00 | | | | NTU | | | 05/04/12 10:21 | 1 |



QC Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

LestAmerica Job ID: 660-47477-1

Lab Sample ID: MB 660-124218/1-A

Matrix: Water

Analysis Batch: 124269

Client Sample ID: Method Blank Prep Type: Total Recoverable

Prep Batch: 124218

| l | | MB | MB | | | | | | | |
|----|---------|--------|-----------|------|------|------|---|----------------|----------------|---------|
| 1 | Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Arsenic | 4.0 | Ū | 10 | 4.0 | ug/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |
| i | Iron | 50 | U | 200 | 50 | ug/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |
| ļ. | Sodium | 0.31 | U | 0.50 | 0.31 | mg/L | | 05/08/12 09:44 | 05/09/12 08:06 | 1 |



Lab Sample ID: LCS 660-124218/2-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable

Analyte Arsenic iron Sodium

Analysis Batch: 124269

| | | | | | | Prep | Batch: 124218 |
|-------|--------|-----------|------|---|------|----------|---------------|
| Spike | LCS | LCS | | | | %Rec. | |
| Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1000 | 1070 | | ug/L | | 107 | 75 - 125 | |
| 1000 | 1100 | | ug/L | | 110 | 75 - 125 | |
| 10.0 | 10.7 | | mg/L | | 107 | 75 - 125 | |

Lab Sample ID: 660-47477-1 MS

Client Sample ID: TH-74 **Matrix: Ground Water** Prep Type: Total Recoverable Analysis Batch: 124269 Prep Batch: 124218

| | Sample | Sample | Spike | MS | MS | | | | %Rec. | |
|---------|--------|--------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Arsenic | 4.0 | U | 1000 | 1110 | | ug/L | | 111 | 75 - 125 | |
| Iron | 38000 | J3 | 1000 | 39900 | J3 | ug/L | | 178 | 75 - 125 | |
| Sodium | 25 | | 10.0 | 36.3 | | mg/L | | 114 | 75 - 125 | |

Lab Sample ID: 660-47477-1 MSD

Matrix: Ground Water

Analysis Batch: 124269

Client Sample ID: TH-74 Prep Type: Total Recoverable

Prep Batch: 124218

| | | Jumpio | vampre | Spine | MOD | MOD | | | | MIKEC. | | KPD |
|---|---------|--------|-----------|-------|--------|-----------|------|------|------|----------|-----|-------|
| i | Analyte | Result | Qualifler | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1 | Arsenic | 4.0 | U | 1000 | 1120 | | ug/L | | 112 | 75 - 125 | 2 | 20 |
| i | Iron | 38000 | J3 | 1000 | 40300 | J3 | ug/L | | 218 | 75 - 125 | 1 | 20 |
| ! | Sodium | 25 | | 10.0 | 36.9 | | mg/L | | 120 | 75 - 125 | 2 | 20 |
| | | | | | | | | | | | | |

Men Men

Method: 300.0 - Anions, Ion Chromatography

Sample Sample

Lab Sample ID: MB 660-124448/14

Matrix: Water

Analysis Batch: 124448

Client Sample ID: Method Blank

Prep Type: Total/NA

| İ | | MB | мв | | | | | | | |
|---|----------|--------|-----------|------|------|------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | PQL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| l | Chloride | 0.20 | Ū | 0.50 | 0.20 | mg/L | | | 05/11/12 09:16 | |

Lab Sample ID: LCS 660-124448/25

Matrix: Water

Analysis Batch: 124448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec. | |
|----------|-------|--------|-----------|------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 10.0 | 9,83 | | mg/L | _ | 98 | 90 - 110 | |

QC Sample Results

Client: Hillsborough County Public Utilities Dep Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| Lab Sample ID: 660-47461-B-5 MS | | | | | | | | | | Client | Sample ID: | Matrix | Snike |
|---|-----------------|-----------------|---------------|-------|-----------------|------------|------|--------|----------------|------------|-----------------------|-------------|---------|
| Matrix: Water | | | | | | | | | | Onenc | Prep Ty | | • |
| Analysis Batch: 124448 | | | | | | | | | | | | | |
| • | Sample | Sample | Spike | | MS | MS | | | | | %Rec. | | |
| Analyte | Result | Qualifier | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Chloride | 26 | | 10.0 | , | 36.1 | | mg/L | | | 96 | 90 - 110 | | |
| Lab Sample ID: 660-47461-B-5 MSD | | | | | | | | Client | : Sa | mple ID | : Matrix Sp | ike Duj | plicate |
| Matrix: Water | | | | | | | | | | | Prep Ty | /pe: To | tal/NA |
| Analysis Batch: 124448 | | | | | | | | | | | | | |
| | • | Sample | Spike | | | MSD | | | | | %Rec. | | RPI |
| Analyte | | Qualifier | Added | | | Qualifier | Unit | | <u>D</u> . | %Rec | Limits | RPD | Limi |
| Chloride | 26 | | 10.0 | | 36.1 | | mg/L | | | 96 | 90 - 110 | 0 | 30 |
| ethod: 350.1 - Nitrogen, Amm | onia | | | | | | | | | | | | |
| _ab Sample ID: MB 660-124365/11 | | | | | _ | | | | (| Client S | ample ID: N | Method | Blani |
| Matrix: Water | | | | | | | | | | | Prep Ty | /pe: To | tal/N/ |
| Analysis Batch: 124365 | | мв мв | | | | | | | | | | | |
| Analyte | | esult Qualifier | | PQL | | MDL Unit | | D | 0- | on a so el | Anabir | | Dil Fa |
| Ammonia as N | |),010 U | | 0.020 | | 0.010 mg/L | | | Pr | epared | Analyze 05/10/12 1 | | UII Fa |
| | | | | | | • | | | | | | | |
| Lab Sample ID: LCS 660-124365/12 Matrix: Water | | | | | | | | Clic | ent | Sample | ID: Lab Co Prep Ty | | • |
| Analysis Batch: 124365 | | | | | | | | | | | | , , , , , , | |
| | | | Spike | | LCS | LCS | | | | | %Rec. | | |
| Analyte | | | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Ammonia as N | | | 0.500 | | 0.517 | | mg/L | | | 103 | 90 - 110 | | |
| Lab Sample ID: 660-47446-E-1 MS | | | | | | | | | | Client | Sample ID: | Matrix | Snik |
| Matrix: Water | | | | | | | | | | Onent | Prep Ty | | |
| Analysis Batch: 124365 | | | | | | | | | | | riep i | , pe. 10 | tan H |
| , | Sample | Sample | Spike | | MS | MS | | | | | %Rec. | | |
| Analyte | Result | Qualifier | Added | | Result | Qualifier | Unit | | D | %Rec | Limits | | |
| Ammonia as N | 0.010 | <u> </u> | 1.00 | | 0.946 | | mg/L | | | 95 | 90 - 110 | | |
| Lab Sample ID: 660-47446-E-1 MSD | | | | | | | | Client | : Sa | mple ID | : Matrix Sp | ike Du | olicat |
| Matrix: Water | | | | | | | | | | | Prep Ty | _ ` | |
| | | | | | | | | | | | | | |
| Analysis Batch: 124365 | | Cample | Spike | | MSD | MSD | | | | | %Rec. | | RP |
| Analysis Batch: 124365 | Sample | Samble | | | | Qualifier | Unit | | D | %Rec | Limits | RPD | Limi |
| • | - | Qualifier | Added | | Result | Qualitio | | | | | | | |
| Analyte | - | Qualifier | Added 1.00 | | Result 0.958 | Quantito | mg/L | | | 96 | 90 - 110 | 1 | 3 |
| Analyte Ammonia as N | Result 0.010 | Qualifier U | 1.00 | | | Quannoi | | | - - | 96 | 90.110 | 1 | 3 |
| Analyte Ammonia as N lethod: SM 2540C - Solids, To | Result 0.010 | Qualifier U | 1.00 | | | Quannoi | | | | | | | |
| Analyte Ammonia as N lethod: SM 2540C - Solids, To Lab Sample ID: MB 660-124192/1 | Result 0.010 | Qualifier U | 1.00 | | | Quannoi | | | | | ample ID: I | Wethod | Blan |
| Analyte Ammonia as N lethod: SM 2540C - Solids, To Lab Sample ID: MB 660-124192/1 Matrix: Water | Result 0.010 | Qualifier U | 1.00 | | | Quanno | | | | | | Wethod | Blan |
| Analysis Batch: 124365 Analyte Ammonia as N lethod: SM 2540C - Solids, To Lab Sample ID: MB 660-124192/1 Matrix: Water Analysis Batch: 124192 | Result 0.010 | Qualifier U | 1.00 | | | Quanno | | | | | ample ID: I | Wethod | |



QC Sample Results

Client: Hilfsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| Lab Sample ID: LCS 660-124192/2 Matrix: Water | | | | | | | Client | : Sample | ID: Lab Co Prep T | ontrol Sa ype: Tol | • |
|--|--------|-----------|-------|--------|-----------|------|-------------|----------|----------------------|-----------------------|------|
| Analysis Batch: 124192 | | | Spike | LCS | LCS | | | | %Rec. | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Total Dissolved Solids | | | 10000 | 9920 | | mg/L | | 99 | 80 - 120 | | |
| Lab Sample ID: 660-47461-A-1 DU Matrix: Water Analysis Batch: 124192 | | | | | | | | Cli | ent Sample Prep T | D: Dup | |
| | Sample | Sample | | DU | DU | | | | | | RPD |
| Analyte | Result | Qualifier | | Rosult | Qualiflor | Unit | D | | | RPD | Limi |
| Total Dissolved Solids | 170 | | | 166 | | mg/L | | | | 2 | |

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| | Prep | Batch: | 124218 |
|--|------|--------|--------|
|--|------|--------|--------|

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------------|--------|------------|
| 660-47477-1 | TH-74 | Total Recoverable | Ground Water | 3005A | |
| 660-47477-1 MS | TH-74 | Total Recoverable | Ground Water | 3005A | |
| 660-47477-1 MSD | TH-74 | Total Recoverable | Ground Water | 3005A | |
| 660-47477-2 | TH-75 | Total Recoverable | Ground Water | 3005A | |
| LCS 660-124218/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| MB 660-124218/1-A | Method Blank | Total Recoverable | Water | 3005A | |

Analysis Batch: 124269

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|---------------------|--------|------------|
| 660-47477-1 | TH-74 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47477-1 MS | TH-74 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47477-1 MSD | TH-74 | Total Recoverable | Ground Water | 6010B | 124218 |
| 660-47477-2 | TH-75 | Total Recoverable | Ground Water | 6010B | 124218 |
| LCS 660-124218/2-A | Lab Control Sample | Total Recoverable | Water | 6010B | 124218 |
| MB 660-124218/1-A | Method Blank | Total Recoverable | Water | 6010B | 124218 |

General Chemistry

Analysis Batch: 124192

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|---------------------|----------|------------|
| 660-47461-A-1 DU | Duplicate | Total/NA | Water | SM 2540C | |
| 660-47477-1 | TH-74 | Total/NA | Ground Water | SM 2540C | |
| 660-47477-2 | TH-75 | Total/NA | Ground Water | SM 2540C | |
| LCS 660-124192/2 | Lab Control Sample | Tctal/NA | Water | SM 2540C | |
| MB 660-124192/1 | Method Blank | Total/NA | Water | SM 2540C | |

Analysis Batch: 124365

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|---------------------|--------|------------|
| 660-47446-E-1 MS | Matrix Spike | Total/NA | Water | 350.1 | |
| 660-47446-E-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 350.1 | |
| 660-47477-1 | TH-74 | Total/NA | Ground Water | 350.1 | |
| 660-47477-2 | TH-75 | Total/NA | Ground Water | 350.1 | |
| LCS 660-124365/12 | Lab Control Sample | Total/NA | Water | 350.1 | |
| MB 660-124365/11 | Method Blank | Total/NA | Water | 350.1 | |

Analysis Batch: 124448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-------------|--------------|--------|------------|
| 660-47461-B-5 MS | Matrix Spike | Total/NA | Water | 300.0 | |
| 660-47461-B-5 MSD | Matrix Spike Duplicate | Total/NA | Water | 300.0 | |
| 660-47477-1 | TH-74 | Total/NA | Ground Water | 300.0 | |
| 660-47477-2 | TH-75 | Total/NA | Ground Water | 300.0 | |
| LCS 660-124448/25 | Lab Control Sample | Total/NA | Water | 300.0 | |
| MB 660-124448/14 | Method Blank | Total/NA | Water | 300.0 | |
| | | · - · - · · | | | |

Field Service / Mobile Lab

Analysis Batch: 124203

| İ | Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---------------|------------------|-----------|--------------|----------------|------------|
| | 660-47477-1 | TH-74 | Total/NA | Ground Water | Field Sampling | |
| ļ | 660-47477-2 | TH-75 | Total/NA | Ground Water | Field Sampling | |

Lab Chronicle

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-474/7-1

Client Sample ID: TH-74

Lab Sample ID: 660-47477-1

Matrix: Ground Water

Date Collected: 05/04/12 09:58 Date Received: 05/04/12 15:35

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Łab |
| Total Recoverable | Prep | 3005A | | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124269 | 05/09/12 08:16 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:47 | то | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:28 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 4 | 124448 | 05/11/12 11:36 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 09:58 | | TAL TAM |

Client Sample ID: TH-75

Lab Sample ID: 660-47477-2

Matrix: Ground Water

Date Collected: 05/04/12 10:21 Date Received: 05/04/12 15:35

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-------------------|----------|----------------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total Recoverable | Prep | 3005A | _ | | 124218 | 05/08/12 09:44 | GF | TAL TAM |
| Total Recoverable | Analysis | 6010B | | 1 | 124269 | 05/09/12 08:29 | GF | TAL TAM |
| Total/NA | Analysis | SM 2540C | | 1 | 124192 | 05/07/12 13:48 | TO | TAL TAM |
| Total/NA | Analysis | 350.1 | | 1 | 124365 | 05/10/12 12:30 | TS | TAL TAM |
| Total/NA | Analysis | 300.0 | | 4 | 124448 | 05/11/12 11:52 | KW | TAL TAM |
| Total/NA | Analysis | Field Sampling | | 1 | 124203 | 05/04/12 10:21 | | TAL TAM |

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Certification Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| Laboratory | Authority | Prog <i>r</i> am | EPA Region | Certification ID |
|-------------------|-----------|------------------|------------|------------------|
| TestAmerica Tampa | Alabama | State Program | 4 | 40610 |
| TestAmerica Tampa | Florida | NELAC | 4 | E84282 |
| TestAmerica Tampa | Georgia | State Program | 4 | 905 |
| TestAmerica Tampa | USDA | Federal | | P330-11-00177 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| Method | Method Description | Protocol | Laboratory |
|----------------|-------------------------------|----------|------------|
| 6010B | Metals (ICP) | SW846 | TAL TAM |
| 300.0 | Anions, Ion Chromatography | MCAWW | TAL TAM |
| 350.1 | Nitrogen, Ammonia | MCAWW | TAL TAM |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | TAL TAM |
| Field Sampling | Field Sampling | EPA | TAL TAM |

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater".

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Sample Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-47477-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | | |
|---------------|------------------|--------------|----------------|----------------|--|--|
| 660-47477-1 | TH-74 | Ground Water | 05/04/12 09:58 | 05/04/12 15:35 | | |
| 660-47477-2 | TH-75 | Ground Water | 05/04/12 10:21 | 05/04/12 15:35 | | |



| PRECLEANED SAMPLE CONTAINERS: | | DATE TIME | | | | |
|--|---------------------------------|----------------------------|--|--|--|--|
| RELINQUISHED BY: | REP. OF CONTRACT LAB. | | | | | |
| ACCEPTED BY: REP. OF SOLID WASTE DEPT. 5,2,1212:30 | | | | | | |
| LOCATION: TH-74 WACS# 28307 | LOCATION: TH-74 MACCH 20207 | | | | | |
| LOCATION: TH-74 WACS# 28307 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon D. Clauta | | | | | | |
| • | · | | | | | |
| WELL DIAMETER: 2 INCH; | | DATE TIME | | | | |
| TOTAL DEPTH OF WELL: 17.00 Ft DEPTH TO WATER: 10.77 Ft | · PURGE STARTED: | 5.4.12 5:44 | | | | |
| LENGTH OF WATER COL: 6.25 Ft | . PURGE RATE: | O.IS GPM. DATE TIME | | | | |
| | 1. PURGE ENDED: | DATE TIME 5.4.1219:58 | | | | |
| | ACT. VOL. PURGED: | 180 GAL. | | | | |
| : | Draw Down: | 11.40 | | | | |
| FIEI | D PARAMETERS: | , | | | | |
| BY TIME TEMP | COND PH DO | TURB | | | | |
| AB JC 9:54 21.94 | 604 5.14 1.04 | 25.6-= | | | | |
| AB 10 19:50 121.93 | 603 5.15 1.18 | 20.7 | | | | |
| AB JC 19:59 121.93 | 602 5.15 0.84 | 12,5 | | | | |
| SAME | LE CONTAINERS | | | | | |
| QTY CONTAINER DESCRIPTION QT | | PRESERVED | | | | |
| 40 ml VIAL | 40 ml VIAL | | | | | |
| 125 ml. PLASTIC | 125 ml. PLASTIC | | | | | |
| 125 ml GLASS / 250 ml. PLASTIC 2 | 125 ml GLASS 250 ml. PLASTIC | | | | | |
| 250 ml. GLASS | 250 ml. GLASS | | | | | |
| 500 ml. PLASTIC | 500 ml. PLASTIC | | | | | |
| 500 ml. GLASS LITER PLASTIC | 500 ml. GLASS LITER PLASTIC | | | | | |
| LITER GLASS | LITER GLASS | | | | | |
| BACTERIAL | BACTERIAL | | | | | |
| | | | | | | |
| ANALYSIS REQUESTED: | | | | | | |
| | | | | | | |
| AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic | | | | | | |
| PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c | | | | | | |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. S.4.2 3:35 REP. OF CONTRACT LAB. S.4.12 3:35 | | | | | | |
| COMMENT'S: wo # 00 59 520 (U-07 | | | | | | |
| | | | | | | |
| | | | | | | |

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| PRECLEANED SAMPLE CONTAINERS: | | | | | DATE TIME |
|---|----------------|--------------|-----------------------------|--------|-------------|
| RELINQUISHED BY: REP. OF CONTRACT LAB. | | | | | |
| ACCEPTED BY: Air Class REP. OF SOLID WASTE DEPT. 5.7.12 12:30 | | | | | |
| LOCATION: TH-75 WACS# 28308 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION DA. Balloon D. J. Clark | | | | | |
| WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 17.00 Ft. PURGE STARTED: 5.4.121 /0:06 DEPTH TO WATER: 7.35 Ft. PURGE RATE: O.15 GPM. LENGTH OF WATER COL: 7.35 Gal. PURGE ENDED: 7.15 GAL. Draw Down: 7.15 GAL. FIELD PARAMETERS: | | | | | |
| - | | | | | |
| BY TIME TEM | | COND 575 | PH 5.32 | DO 244 | |
| | | 581 | 5.32 | | 0.00 |
| | | 588 | 5.32 | 0.29 | 0.00 |
| | SAMPLI | E CONT | AINERS | • | |
| QTY CONTAINER DESCRIPTION | QTY | T | NTAINER DESCR | IPTION | PRESERVED |
| 40 ml VIAL | | | 40 ml VIAI | | |
| 125 ml. PLASTIC 125 ml GLASS | | | 125 ml. PLAS | | |
| 1 250 ml. PLASTIC | 2 | | 125 ml GLAS 250 ml. PLAS | | |
| 250 ml. GLASS | | | 250 ml. GLA | | |
| 500 ml. PLASTIC 500 ml. GLASS | <u> </u> | | 500 ml. PLAS | | |
| LITER PLASTIC | - | | 500 ml. GLA LITER PLAST | | |
| LITER GLASS | | LITER GLASS | | | |
| BACTERIAL | | BACTERIAL | | | |
| TOTAL No. OF SAMPLES COLLECTED: Colors and Sheens | | | | | |
| AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic | | | | | |
| PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c | | | | | |
| ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. DATE TIME 5.4.12 3:35 REP. OF CONTRACT LAB. | | | | | |
| COMMENT'S: 60 # 0059 5.20 CU-07 | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-47477-1

Login Number: 47477 List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

| Question | Answer | Comment |
|--|--------|------------|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | 5.2c CU-07 |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

