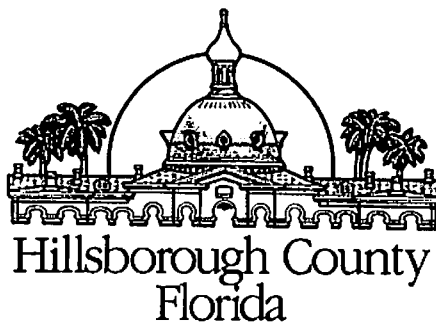


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October 1, 2012

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

*Dept. of Environmental
Protection*

OCT 03 2012

Southwest District

**Re: Southeast County Landfill
Leachate Treatment Plant
Effluent Analytical Data – Third Quarter (July - September, 2012)**

Dear Ms. Pelz:

In accordance with Specific Condition E.9.b(2) of the Southeast County Landfill (SCLF) Operation Permit No. 35435-014-SO/01, the Hillsborough County Public Utilities Department (County), is pleased to provide the laboratory analytical data for the third quarter effluent sampling of the leachate treatment plant located at 15960 County Road 672 in Lithia, Florida.

The referenced permit requires the monthly sampling of the leachate treatment plant effluent and the recording of the plant pH values. Monthly effluent samples are collected by the County and analyzed for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), and Nitrate.

The daily pH values recorded by plant personnel during this quarterly period ranged from 7.3 - 8.3 pH units and the monthly analytical samples ranged from 8.01 - 8.46 pH units. These values represent compliance with the State of Florida Secondary Drinking Water Standard (FAC Ch. 62-550.320) for pH. County personnel collected the effluent samples from the dedicated sampling port at the treatment plant on July 3, August 3, and September 5, 2012.

All effluent samples were analyzed by our contracted laboratory, Test America, Inc. and the analytical data reports are provided herein for your technical review. No significant changes in the concentrations of any parameters were noted during this quarterly reporting period.

Ms. Susan Pelz
October 1, 2012
Page 2

Should you have any questions or comments concerning the information provided in this submittal, please feel free to contact me at (813) 663-3221.

Sincerely,

David S. Adams 10/1/2012

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



DSA/mdt
Enclosures

xc: Larry Ruiz, Public Utilities
Beth Schinella, Public Utilities
Ron Cope, EPC

G:enviro/self/leachate plant/ltp-effluent-3rdqtr2012.doc

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PL. of Environment
Protection
OCT 03 2012
Southwest District

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-48652-1
Client Project/Site: Leachate Effluent

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:
7/17/2012 12:43:05 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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The
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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: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
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.
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)
ND	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)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Job ID: 660-48652-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-48652-1

Comments

No additional comments.

Receipt

The samples were received on 7/3/2012 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 126260 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method SM 5220D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 126358 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-48652-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.25	I	0.50	0.10	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	1900		200	100	mg/L	10		5220 D	Total/NA
Total Dissolved Solids	4900		250	250	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	18		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Biochemical Oxygen Demand	32		12	12	mg/L	1		SM 5210B	Total/NA
Field pH	8.46				SU	1		Field Sampling	Total/NA
Field Temperature	32.42				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.73				mg/L	1		Field Sampling	Total/NA
Specific Conductance	8407				umhos/cm	1		Field Sampling	Total/NA

Client Sample ID: Equipment Blank

Lab Sample ID: 660-48652-2

No Detections

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-48652-1

Date Collected: 07/03/12 11:30

Matrix: Water

Date Received: 07/03/12 14:00

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.25	I	0.50	0.10	mg/L			07/04/12 07:02	1
Chemical Oxygen Demand	1900		200	100	mg/L		07/06/12 07:30	07/06/12 11:30	10
Total Dissolved Solids	4900		250	250	mg/L			07/09/12 14:42	1
Total Suspended Solids	18		1.0	1.0	mg/L			07/10/12 08:03	1
Biochemical Oxygen Demand	32		12	12	mg/L			07/05/12 07:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.46				SU			07/03/12 11:30	1
Field Temperature	32.42				Degrees C			07/03/12 11:30	1
Oxygen, Dissolved	5.73				mg/L			07/03/12 11:30	1
Specific Conductance	8407				umhos/cm			07/03/12 11:30	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Client Sample ID: Equipment Blank

Lab Sample ID: 660-48652-2

Date Collected: 07/03/12 11:25

Matrix: Water

Date Received: 07/03/12 14:00

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			07/04/12 07:03	1
Chemical Oxygen Demand	10	U	20	10	mg/L		07/05/12 14:40	07/06/12 11:00	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/09/12 14:42	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			07/10/12 08:03	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/05/12 07:28	1

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Method: 353.2 - Nitrate

Lab Sample ID: MB 660-126260/23
Matrix: Water
Analysis Batch: 126260

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L	-		07/04/12 06:48	1

Lab Sample ID: LCS 660-126260/24
Matrix: Water
Analysis Batch: 126260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.981		mg/L	-	98	90 - 110
Nitrite as N	0.500	0.500		mg/L	-	100	90 - 110

Lab Sample ID: 660-48611-A-3 MS
Matrix: Water
Analysis Batch: 126260

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	5.7		1.00	6.88	J3	mg/L	-	121	90 - 110
Nitrite as N	0.10		0.500	0.543		mg/L	-	109	90 - 110

Lab Sample ID: 660-48611-A-3 MSD
Matrix: Water
Analysis Batch: 126260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	5.7		1.00	6.90	J3	mg/L	-	123	90 - 110	0	30
Nitrite as N	0.10		0.500	0.543		mg/L	-	109	90 - 110	0	30

Method: 5220 D - Chemical Oxygen Demand

Lab Sample ID: MB 660-126353/4-A
Matrix: Water
Analysis Batch: 126357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126353

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L	-	07/05/12 14:40	07/08/12 11:00	1

Lab Sample ID: LCS 660-126353/5-A
Matrix: Water
Analysis Batch: 126357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	49.9		mg/L	-	100	90 - 110

Lab Sample ID: 640-39254-A-2-B MS
Matrix: Water
Analysis Batch: 126357

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 126353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	28		50.0	77.6		mg/L	-	104	90 - 110

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Method: 5220 D - Chemical Oxygen Demand (Continued)

Lab Sample ID: 640-39254-A-2-C MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126357						Prep Batch: 126353					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	26		50.0	73.6		mg/L		96	90 - 110	5	20

Lab Sample ID: MB 660-126354/4-A						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126358						Prep Batch: 126354					
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chemical Oxygen Demand	10	U	20	10	mg/L		07/06/12 07:30	07/06/12 11:30	1		

Lab Sample ID: LCS 660-126354/5-A						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126358						Prep Batch: 126354					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Chemical Oxygen Demand	200	204		mg/L		102	90 - 110				

Lab Sample ID: 660-48627-N-1-B MS						Client Sample ID: Matrix Spike					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126358						Prep Batch: 126354					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chemical Oxygen Demand	1500	J3	100	1530	J3	mg/L		45	90 - 110		

Lab Sample ID: 660-48627-N-1-C MSD						Client Sample ID: Matrix Spike Duplicate					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126358						Prep Batch: 126354					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	1500	J3	100	1540	J3	mg/L		53	90 - 110	1	20

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

Lab Sample ID: MB 660-126399/1						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126399											
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			07/09/12 14:42	1		

Lab Sample ID: LCS 660-126399/2						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 126399											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Total Dissolved Solids	10000	9900		mg/L		99	80 - 120				

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

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

Lab Sample ID: 640-39291-B-1 DU

Matrix: Water

Analysis Batch: 126399

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	230		232		mg/L		2	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-126417/1

Matrix: Water

Analysis Batch: 126417

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			07/10/12 08:03	1

Lab Sample ID: LCS 660-126417/2

Matrix: Water

Analysis Batch: 126417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	88.4		mg/L		88	80 - 120

Lab Sample ID: 660-48652-1 DU

Matrix: Water

Analysis Batch: 126417

Client Sample ID: Leachate Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	18		16.8		mg/L		9	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: SCB 660-126264/2 SCB

Matrix: Water

Analysis Batch: 126264

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/05/12 07:28	1

Lab Sample ID: USB 660-126264/1 USB

Matrix: Water

Analysis Batch: 126264

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			07/05/12 07:28	1

Lab Sample ID: LCS 660-126264/3

Matrix: Water

Analysis Batch: 126264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	187		mg/L		95	85 - 115

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 660-48650-A-1 DU
Matrix: Water
Analysis Batch: 126264

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	35		36.2		mg/L		4	20

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

General Chemistry

Analysis Batch: 126260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48611-A-3 MS	Matrix Spike	Total/NA	Water	353.2	
660-48611-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-48652-1	Leachate Effluent	Total/NA	Water	353.2	
660-48652-2	Equipment Blank	Total/NA	Water	353.2	
LCS 660-126260/24	Lab Control Sample	Total/NA	Water	353.2	
MB 660-126260/23	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 126264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48650-A-1 DU	Duplicate	Total/NA	Water	SM 5210B	
660-48652-1	Leachate Effluent	Total/NA	Water	SM 5210B	
660-48652-2	Equipment Blank	Total/NA	Water	SM 5210B	
LCS 660-126264/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-126264/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-126264/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Prep Batch: 126353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39254-A-2-B MS	Matrix Spike	Total/NA	Water	SM 5220	
640-39254-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-48652-2	Equipment Blank	Total/NA	Water	SM 5220	
LCS 660-126353/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-126353/4-A	Method Blank	Total/NA	Water	SM 5220	

Prep Batch: 126354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48627-N-1-B MS	Matrix Spike	Total/NA	Water	SM 5220	
660-48627-N-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-48652-1	Leachate Effluent	Total/NA	Water	SM 5220	
LCS 660-126354/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-126354/4-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 126357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39254-A-2-B MS	Matrix Spike	Total/NA	Water	5220 D	126353
640-39254-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	126353
660-48652-2	Equipment Blank	Total/NA	Water	5220 D	126353
LCS 660-126353/5-A	Lab Control Sample	Total/NA	Water	5220 D	126353
MB 660-126353/4-A	Method Blank	Total/NA	Water	5220 D	126353

Analysis Batch: 126358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48627-N-1-B MS	Matrix Spike	Total/NA	Water	5220 D	126354
660-48627-N-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	126354
660-48652-1	Leachate Effluent	Total/NA	Water	5220 D	126354
LCS 660-126354/5-A	Lab Control Sample	Total/NA	Water	5220 D	126354
MB 660-126354/4-A	Method Blank	Total/NA	Water	5220 D	126354

Analysis Batch: 126399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39291-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48652-1	Leachate Effluent	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Hillshorough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

General Chemistry (Continued)

Analysis Batch: 126399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48652-2	Equipment Blank	Total/NA	Water	SM 2540C	
LCS 660-126399/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-126399/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 126417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48652-1	Leachate Effluent	Total/NA	Water	SM 2540D	
660-48652-1 DU	Leachate Effluent	Total/NA	Water	SM 2540D	
660-48652-2	Equipment Blank	Total/NA	Water	SM 2540D	
LCS 660-126417/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-126417/1	Method Blank	Total/NA	Water	SM 2540D	

Field Service / Mobile Lab

Analysis Batch: 126274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48652-1	Leachate Effluent	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Hillsborough County Public Utilities Dept
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-48652-1

Date Collected: 07/03/12 11:30

Matrix: Water

Date Received: 07/03/12 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	126260	07/04/12 07:02	TO	TAL TAM
Total/NA	Analysis	SM 5210B		1	126264	07/05/12 07:28	AG	TAL TAM
Total/NA	Prep	SM 5220			126354	07/06/12 07:30	RWF	TAL TAM
Total/NA	Analysis	5220 D		10	126358	07/06/12 11:30	RWF	TAL TAM
Total/NA	Analysis	SM 2540C		1	126399	07/09/12 14:42	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	126417	07/10/12 08:03	AG	TAL TAM
Total/NA	Analysis	Field Sampling		1	126274	07/03/12 11:30		TAL TAM

Client Sample ID: Equipment Blank

Lab Sample ID: 660-48652-2

Date Collected: 07/03/12 11:25

Matrix: Water

Date Received: 07/03/12 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	126260	07/04/12 07:03	TO	TAL TAM
Total/NA	Analysis	SM 5210B		1	126264	07/05/12 07:28	AG	TAL TAM
Total/NA	Prep	SM 5220			126353	07/05/12 14:40	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	126357	07/06/12 11:00	RWF	TAL TAM
Total/NA	Analysis	SM 2540C		1	126399	07/09/12 14:42	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	126417	07/10/12 08:03	AG	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: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40810
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: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
5220 D	Chemical Oxygen Demand	SM20	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	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",

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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: Leachate Effluent

TestAmerica Job ID: 660-48652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48652-1	Leachate Effluent	Water	07/03/12 11:30	07/03/12 14:00
660-48652-2	Equipment Blank	Water	07/03/12 11:25	07/03/12 14:00

660-48652

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM

LEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS:

RELINQUISHED BY:

ACCEPTED BY:

REP. OF CONTRACT LAB.

REP. OF SOLID WASTE DEPT.

DATE | TIME

6.29.12 | 2:30

LOCATION: LEACHATE EFFLUENT

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION: ☒ A. Balloon ☒ J. C. ☐

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:30	32.42	8407	8.44	5.73	N/A =

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

5 TOTAL NO. OF SAMPLES COLLECTED:

COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

7.3.12 | 11:30

ANALYSIS REQUESTED:

MONTHLY LEACHATE PLANT PARAMETERS

BOD

TSS

NITRATE

TDS

COD

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

7.3.12 | 2:00

7.3.12 | 2:00

COMMENT'S: 60 # 0068

3.1 c cu07

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM
LEACHATE PLANT EQUIPMENT BLANK

PRECLEANED SAMPLE CONTAINERS:

RELINQUISHED BY:

ACCEPTED BY:

Jim Mayo

REP. OF CONTRACT LAB.

REP. OF SOLID WASTE DEPT.

DATE | TIME

6.29.12 | 2:30

LOCATION: EQUIPMENT BLANK

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION: ☒ A. Balloon ☒ J.C. ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

TOTAL No. OF SAMPLES COLLECTED:

COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

7.3.12 | 11:25

ANALYSIS REQUESTED:

MONTHLY LEACHATE PLANT PARAMETERS

BOD

TSS

NITRATE

TDS

COD

PRESERVED SAMPLES PH < 2.0 ☒

SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

ACCEPTED BY:

Jim Mayo
Chris McManis

REP. OF SOLID WASTE DEPT.

REP. OF CONTRACT LAB.

DATE | TIME

7.3.12 | 8:00

7.3.12 | 8:00

COMMENT'S: WOT 0068

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48652-1

Login Number: 48652

List Number: 1

List Source: TestAmerica Tampa

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	3.1 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.	N/A	

TestAmerica

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: 660-49257-1
Client Project/Site: Leachate Effluent

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:
8/13/2012 11:28:22 AM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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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.

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
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)
ND	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)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Job ID: 660-49257-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-49257-1

Comments

No additional comments.

Receipt

The samples were received on 8/3/2012 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7° C.

General Chemistry

Method SM 5220D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 127459 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49257-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	10	I	20	10	mg/L	1		5220 D	Total/NA

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49257-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.46	I	0.50	0.10	mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	590		20	10	mg/L	1		5220 D	Total/NA
Total Dissolved Solids	4600		250	250	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	11		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Field pH	8.01				SU	1		Field Sampling	Total/NA
Field Temperature	32.96				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	8.391				umhos/cm	1		Field Sampling	Total/NA

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49257-1

Date Collected: 08/03/12 11:00

Matrix: Water

Date Received: 08/03/12 14:40

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			08/03/12 16:05	1
Chemical Oxygen Demand	10	I	20	10	mg/L		08/06/12 13:00	08/06/12 15:45	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/07/12 09:05	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			08/06/12 07:32	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			08/03/12 15:50	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49257-2

Date Collected: 08/03/12 11:10

Matrix: Water

Date Received: 08/03/12 14:40

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.46	I	0.50	0.10	mg/L			08/03/12 16:06	1
Chemical Oxygen Demand	590		20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1
Total Dissolved Solids	4600		250	250	mg/L			08/07/12 09:05	1
Total Suspended Solids	11		1.0	1.0	mg/L			08/06/12 07:32	1
Biochemical Oxygen Demand	12	U	12	12	mg/L			08/03/12 15:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.01				SU			08/03/12 11:10	1
Field Temperature	32.98				Degrees C			08/03/12 11:10	1
Oxygen, Dissolved	4.69				mg/L			08/03/12 11:10	1
Specific Conductance	8.391				umhos/cm			08/03/12 11:10	1

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Method: 353.2 - Nitrate

Lab Sample ID: MB 660-127433/12
Matrix: Water
Analysis Batch: 127433

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			08/03/12 11:27	1

Lab Sample ID: LCS 660-127433/13
Matrix: Water
Analysis Batch: 127433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	0.977		mg/L		98	90 - 110
Nitrite as N	0.500	0.496	I	mg/L		99	90 - 110

Lab Sample ID: 660-49226-C-1 MS
Matrix: Water
Analysis Batch: 127433

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	0.22	I	1.00	1.20		mg/L		99	90 - 110
Nitrite as N	0.10	U	0.500	0.508		mg/L		102	90 - 110

Lab Sample ID: 660-49226-C-1 MSD
Matrix: Water
Analysis Batch: 127433

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.22	I	1.00	1.17		mg/L		96	90 - 110	3	30
Nitrite as N	0.10	U	0.500	0.502		mg/L		100	90 - 110	1	30

Method: 5220 D - Chemical Oxygen Demand

Lab Sample ID: MB 660-127452/4-A
Matrix: Water
Analysis Batch: 127459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127452

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L		08/06/12 13:00	08/06/12 15:45	1

Lab Sample ID: LCS 660-127452/5-A
Matrix: Water
Analysis Batch: 127459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	50.0	54.5		mg/L		109	90 - 110

Lab Sample ID: 660-49120-F-3-B MS
Matrix: Water
Analysis Batch: 127459

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 127452

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	14	I J3	50.0	78.4	J3	mg/L		129	90 - 110

QC Sample Results

Client: Hillsborough County Public Utilities
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Method: 5220 D - Chemical Oxygen Demand (Continued)

Lab Sample ID: 660-49120-F-3-C MSD

Matrix: Water

Analysis Batch: 127459

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 127452

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	14	J3	50.0	71.3	J3	mg/L		115	90 - 110	9	20

Lab Sample ID: MB 660-127453/4-A

Matrix: Water

Analysis Batch: 127460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127453

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L		08/06/12 13:00	08/06/12 16:10	1

Lab Sample ID: LCS 660-127453/5-A

Matrix: Water

Analysis Batch: 127460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	215		mg/L		107	90 - 110

Lab Sample ID: 640-39703-D-2-B MS

Matrix: Water

Analysis Batch: 127460

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 127453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	61		100	156		mg/L		95	90 - 110

Lab Sample ID: 640-39703-D-2-C MSD

Matrix: Water

Analysis Batch: 127460

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 127453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	61		100	164		mg/L		102	90 - 110	5	20

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

Lab Sample ID: MB 660-127470/1

Matrix: Water

Analysis Batch: 127470

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			08/07/12 09:05	1

Lab Sample ID: LCS 660-127470/2

Matrix: Water

Analysis Batch: 127470

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9940		mg/L		99	80 - 120

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

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

Lab Sample ID: 660-49238-B-22 DU

Matrix: Water

Analysis Batch: 127470

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	410		424		mg/L		3	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-127409/1

Matrix: Water

Analysis Batch: 127409

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			08/06/12 07:32	1

Lab Sample ID: LCS 660-127409/2

Matrix: Water

Analysis Batch: 127409

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	98.0		mg/L		98	80 - 120

Lab Sample ID: 660-49257-2 DU

Matrix: Water

Analysis Batch: 127409

Client Sample ID: LEACHATE EFFLUENT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Suspended Solids	11		12.0		mg/L		7	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: SCB 660-127379/2 SCB

Matrix: Water

Analysis Batch: 127379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			08/03/12 10:25	1

Lab Sample ID: USB 660-127379/1 USB

Matrix: Water

Analysis Batch: 127379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			08/03/12 10:25	1

Lab Sample ID: LCS 660-127379/3

Matrix: Water

Analysis Batch: 127379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	208		mg/L		105	85 - 115

QC Sample Results

Client: Hillsborough County Public Utilities Dept
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 660-49230-D-9 DU
Matrix: Water
Analysis Batch: 127379

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	2.0	U	2.0	U	mg/L	-	NC	20

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

General Chemistry

Analysis Batch: 127379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49230-D-9 DU	Duplicate	Total/NA	Water	SM 5210B	
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	SM 5210B	
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	SM 5210B	
LCS 660-127379/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-127379/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-127379/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 127409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	SM 2540D	
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-49257-2 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
LCS 660-127409/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-127409/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 127433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49226-C-1 MS	Matrix Spike	Total/NA	Water	353.2	
660-49226-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	353.2	
LCS 660-127433/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-127433/12	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 127440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	353.2	

Prep Batch: 127452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49120-F-3-B MS	Matrix Spike	Total/NA	Water	SM 5220	
660-49120-F-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	SM 5220	
LCS 660-127452/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-127452/4-A	Method Blank	Total/NA	Water	SM 5220	

Prep Batch: 127453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-D-2-B MS	Matrix Spike	Total/NA	Water	SM 5220	
640-39703-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	SM 5220	
LCS 660-127453/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-127453/4-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 127459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49120-F-3-B MS	Matrix Spike	Total/NA	Water	5220 D	127452
660-49120-F-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	127452
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	5220 D	127452
LCS 660-127452/5-A	Lab Control Sample	Total/NA	Water	5220 D	127452
MB 660-127452/4-A	Method Blank	Total/NA	Water	5220 D	127452

QC Association Summary

Client: Hillsborough County Public Utilities Dept
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

General Chemistry (Continued)

Analysis Batch: 127460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-39703-D-2-B MS	Matrix Spike	Total/NA	Water	5220 D	127453
640-39703-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	127453
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	5220 D	127453
LCS 660-127453/5-A	Lab Control Sample	Total/NA	Water	5220 D	127453
MB 660-127453/4-A	Method Blank	Total/NA	Water	5220 D	127453

Analysis Batch: 127470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49238-B-22 DU	Duplicate	Total/NA	Water	SM 2540C	
660-49257-1	BLANK EQUIPMENT	Total/NA	Water	SM 2540C	
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
LCS 660-127470/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-127470/1	Method Blank	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 127537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49257-2	LEACHATE EFFLUENT	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49257-1

Date Collected: 08/03/12 11:00

Matrix: Water

Date Received: 08/03/12 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	127379	08/03/12 15:50	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	127409	08/06/12 07:32	TO	TAL TAM
Total/NA	Analysis	353.2		1	127433	08/03/12 16:05	KW	TAL TAM
Total/NA	Prep	SM 5220			127452	08/06/12 13:00	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	127459		RWF	TAL TAM
						(Start) 08/06/12 15:45		
						(End) 08/06/12 16:00		
Total/NA	Analysis	SM 2540C		1	127470	08/07/12 09:05	TO	TAL TAM

9

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49257-2

Date Collected: 08/03/12 11:10

Matrix: Water

Date Received: 08/03/12 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	127379	08/03/12 15:50	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	127409	08/06/12 07:32	TO	TAL TAM
Total/NA	Analysis	353.2		1	127440	08/03/12 16:06	KW	TAL TAM
Total/NA	Prep	SM 5220			127453	08/06/12 13:00	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	127460		RWF	TAL TAM
						(Start) 08/06/12 16:10		
						(End) 08/06/12 16:30		
Total/NA	Analysis	SM 2540C		1	127470	08/07/12 09:05	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	127537	08/03/12 11:10		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: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14

Method Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
5220 D	Chemical Oxygen Demand	SM20	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	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",

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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: Leachate Effluent

TestAmerica Job ID: 660-49257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-49257-1	BLANK EQUIPMENT	Water	08/03/12 11:00	08/03/12 14:40
660-49257-2	LEACHATE EFFLUENT	Water	08/03/12 11:10	08/03/12 14:40

660-49257

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM
LEACHATE PLANT EQUIPMENT BLANK

PRECLEANED SAMPLE CONTAINERS:

RELINQUISHED BY: De. [Signature]

REP. OF CONTRACT LAB.

DATE | TIME

ACCEPTED BY: [Signature]

REP. OF SOLID WASTE DEPT.

7-23-12 | 1:40
7-23-12 | 2:30LOCATION: EQUIPMENT BLANKSAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION: ☒ A. Balloon ☒ J. Clayton ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

13

5 TOTAL No. OF SAMPLES COLLECTED:COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

8.3.12 | 11:00

ANALYSIS REQUESTED:MONTHLY LEACHATE PLANT PARAMETERSBODTSSNITRATETDSCODPRESERVED SAMPLES PH < -2.0 ✓ SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES:

RELINQUISHED BY: [Signature]

REP. OF SOLID WASTE DEPT.

DATE | TIME

ACCEPTED BY: [Signature]

REP. OF CONTRACT LAB.

8.3.12 | 2:40
8.3.12 | 2:40COMMENT'S: W06#0069

4.7°C CH-07

660-49257

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM

LEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS:

RELINQUISHED BY: He Gull

REP. OF CONTRACT LAB.

ACCEPTED BY: AB

REP. OF SOLID WASTE DEPT.

DATE | TIME

7-23-12 | 1405

7-23-12 | 2130

LOCATION: LEACHATE EFFLUENTSAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION: ☒ A. Balloon ☒ A. Clayton ☐

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	11:10	32.9C	8.991	7.67 5.01	4.69	N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

13

5 TOTAL No. OF SAMPLES COLLECTED:

COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

8.3.12 | 11:10

ANALYSIS REQUESTED:

MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS CODPRESERVED SAMPLES PH < 2.0 ✓ SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Chris Clayton

REP. OF SOLID WASTE DEPT.

ACCEPTED BY: Chris Clayton

REP. OF CONTRACT LAB.

DATE | TIME

8.3.12 | 2:40

8.3.12 | 2:40

COMMENT'S: WO # 0069

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-49257-1

Login Number: 49257

List Number: 1

List Source: TestAmerica Tampa

Creator: Snead, Joshua

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	
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.	N/A	

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TestAmerica

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: 660-49818-1
Client Project/Site: SELF, Leachate Trucks, EFF

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:
9/19/2012 2:04:20 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

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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: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Qualifiers

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	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)
ND	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)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Job ID: 660-49818-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-49818-1

Comments

No additional comments.

Receipt

The samples were received on 9/5/2012 3:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 128695 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method SM 5220D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 129087 were outside control limits of 90-110%. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49818-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Nitrate as N	0.31	I	0.50	0.10	mg/L	1			353.2	Total/NA
Chemical Oxygen Demand	660	J3	200	100	mg/L	10			5220 D	Total/NA
Total Dissolved Solids	3700		250	250	mg/L	1			SM 2540C	Total/NA
Total Suspended Solids	17		1.0	1.0	mg/L	1			SM 2540D	Total/NA
Field pH	8.10				SU	1			Field Sampling	Total/NA
Field Temperature	33.10				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	5.24				mg/L	1			Field Sampling	Total/NA
Specific Conductance	9053				umhos/cm	1			Field Sampling	Total/NA

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49818-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Total Suspended Solids	1.2		1.0	1.0	mg/L	1			SM 2540D	Total/NA

5

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49818-1

Date Collected: 09/05/12 12:55

Matrix: Water

Date Received: 09/05/12 15:20

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.31	I	0.50	0.10	mg/L			09/06/12 08:44	1
Chemical Oxygen Demand	660	J3	200	100	mg/L		09/15/12 10:30	09/16/12 13:20	10
Total Dissolved Solids	3700		250	250	mg/L			09/11/12 09:55	1
Total Suspended Solids	17		1.0	1.0	mg/L			09/11/12 07:29	1
Biochemical Oxygen Demand	12	U	12	12	mg/L			09/06/12 07:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.10				SU			09/05/12 12:55	1
Field Temperature	33.10				Degrees C			09/05/12 12:55	1
Oxygen, Dissolved	5.24				mg/L			09/05/12 12:55	1
Specific Conductance	9053				umhos/cm			09/05/12 12:55	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep.
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49818-2

Date Collected: 09/05/12 12:36

Matrix: Water

Date Received: 09/05/12 15:20

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			09/06/12 08:47	1
Chemical Oxygen Demand	10	U	20	10	mg/L		09/15/12 10:30	09/16/12 12:17	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			09/11/12 09:55	1
Total Suspended Solids	1.2		1.0	1.0	mg/L			09/11/12 07:29	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			09/06/12 07:40	1

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Method: 353.2 - Nitrate

Lab Sample ID: MB 660-128695/12
Matrix: Water
Analysis Batch: 128695

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.10	U	0.50	0.10	mg/L			09/06/12 08:42	1

Lab Sample ID: LCS 660-128695/13
Matrix: Water
Analysis Batch: 128695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.985		mg/L		99	90 - 110
Nitrite as N	0.500	0.487	I	mg/L		97	90 - 110

Lab Sample ID: 660-49814-A-7 MS
Matrix: Water
Analysis Batch: 128695

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	1.10		mg/L		110	90 - 110
Nitrite as N	0.10	U J3	0.500	0.554	J3	mg/L		111	90 - 110

Lab Sample ID: 660-49814-A-7 MSD
Matrix: Water
Analysis Batch: 128695

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	1.10		mg/L		110	90 - 110	0	30
Nitrite as N	0.10	U J3	0.500	0.555	J3	mg/L		111	90 - 110	0	30

Method: 5220 D - Chemical Oxygen Demand

Lab Sample ID: MB 660-129087/4-A
Matrix: Water
Analysis Batch: 129088

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129087

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L		09/15/12 10:30	09/16/12 13:20	1

Lab Sample ID: LCS 660-129087/5-A
Matrix: Water
Analysis Batch: 129088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129087

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	200	215		mg/L		107	90 - 110

Lab Sample ID: 660-49818-1 MS
Matrix: Water
Analysis Batch: 129088

Client Sample ID: LEACHATE EFFLUENT
Prep Type: Total/NA
Prep Batch: 129087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	660	J3	100	741	J3	mg/L		84	90 - 110

QC Sample Results

Client: Hillsborough County Public Utilities Dept
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Method: 5220 D - Chemical Oxygen Demand (Continued)

Lab Sample ID: 660-49818-1 MSD

Matrix: Water

Analysis Batch: 129088

Client Sample ID: LEACHATE EFFLUENT

Prep Type: Total/NA

Prep Batch: 129087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	660	J3	100	735	J3	mg/L		78	90 - 110	1	20

Lab Sample ID: MB 660-129089/4-A

Matrix: Water

Analysis Batch: 129090

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 129089

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	20	10	mg/L		09/15/12 10:30	09/16/12 12:17	1

Lab Sample ID: LCS 660-129089/5-A

Matrix: Water

Analysis Batch: 129090

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 129089

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	46.4		mg/L		93	90 - 110

Lab Sample ID: 660-49766-A-1-B MS

Matrix: Water

Analysis Batch: 129090

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 129089

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	10	U	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: 660-49766-A-1-C MSD

Matrix: Water

Analysis Batch: 129090

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 129089

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chemical Oxygen Demand	10	U	50.0	51.6		mg/L		103	90 - 110	4	20

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

Lab Sample ID: MB 660-128828/1

Matrix: Water

Analysis Batch: 128828

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			09/11/12 09:55	1

Lab Sample ID: LCS 660-128828/2

Matrix: Water

Analysis Batch: 128828

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9970		mg/L		100	80 - 120

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

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

Lab Sample ID: 640-40194-C-6 DU

Matrix: Water

Analysis Batch: 128828

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	160		162		mg/L		1	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-128819/1

Matrix: Water

Analysis Batch: 128819

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			09/11/12 07:29	1

Lab Sample ID: LCS 660-128819/2

Matrix: Water

Analysis Batch: 128819

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	96.0		mg/L		96	80 - 120

Lab Sample ID: 660-49818-1 DU

Matrix: Water

Analysis Batch: 128819

Client Sample ID: LEACHATE EFFLUENT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Suspended Solids	17		15.2		mg/L		10	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: SCB 660-128625/2 SCB

Matrix: Water

Analysis Batch: 128625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			09/06/12 07:40	1

Lab Sample ID: USB 660-128625/1 USB

Matrix: Water

Analysis Batch: 128625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			09/06/12 07:40	1

Lab Sample ID: LCS 660-128625/3

Matrix: Water

Analysis Batch: 128625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	188		mg/L		95	85 - 115

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF,Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 660-49818-1 DU

Matrix: Water

Analysis Batch: 128625

Client Sample ID: LEACHATE EFFLUENT

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Biochemical Oxygen Demand	12	U	12	U	mg/L			NC	20

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

General Chemistry

Analysis Batch: 128625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	SM 5210B	
660-49818-1 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 5210B	
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	SM 5210B	
LCS 660-128625/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-128625/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-128625/1 USB	Method Blank	Total/NA	Water	SM 5210B	

Analysis Batch: 128695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49814-A-7 MS	Matrix Spike	Total/NA	Water	353.2	
660-49814-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	353.2	
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	353.2	
LCS 660-128695/13	Lab Control Sample	Total/NA	Water	353.2	
MB 660-128695/12	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 128819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-49818-1 DU	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	SM 2540D	
LCS 660-128819/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-128819/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 128828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40194-C-6 DU	Duplicate	Total/NA	Water	SM 2540C	
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	SM 2540C	
LCS 660-128828/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-128828/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 129087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	SM 5220	
660-49818-1 MS	LEACHATE EFFLUENT	Total/NA	Water	SM 5220	
660-49818-1 MSD	LEACHATE EFFLUENT	Total/NA	Water	SM 5220	
LCS 660-129087/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-129087/4-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 129088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	5220 D	129087
660-49818-1 MS	LEACHATE EFFLUENT	Total/NA	Water	5220 D	129087
660-49818-1 MSD	LEACHATE EFFLUENT	Total/NA	Water	5220 D	129087
LCS 660-129087/5-A	Lab Control Sample	Total/NA	Water	5220 D	129087
MB 660-129087/4-A	Method Blank	Total/NA	Water	5220 D	129087

Prep Batch: 129089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49766-A-1-B MS	Matrix Spike	Total/NA	Water	SM 5220	
660-49766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

General Chemistry (Continued)

Prep Batch: 129089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	SM 5220	
LCS 660-129089/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-129089/4-A	Method Blank	Total/NA	Water	SM 5220	

Analysis Batch: 129090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49766-A-1-B MS	Matrix Spike	Total/NA	Water	5220 D	129089
660-49766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	129089
660-49818-2	BLANK EQUIPMENT	Total/NA	Water	5220 D	129089
LCS 660-129089/5-A	Lab Control Sample	Total/NA	Water	5220 D	129089
MB 660-129089/4-A	Method Blank	Total/NA	Water	5220 D	129089

Field Service / Mobile Lab

Analysis Batch: 128874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-49818-1	LEACHATE EFFLUENT	Total/NA	Water	Field Sampling	

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Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Client Sample ID: LEACHATE EFFLUENT

Lab Sample ID: 660-49818-1

Date Collected: 09/05/12 12:55

Matrix: Water

Date Received: 09/05/12 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	128625	09/06/12 07:40	AG	TAL TAM
Total/NA	Analysis	353.2		1	128695	09/06/12 08:44	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	128819	09/11/12 07:29	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	128828	09/11/12 09:55	TO	TAL TAM
Total/NA	Prep	SM 5220			129087	09/15/12 10:30	RWF	TAL TAM
Total/NA	Analysis	5220 D		10	129088		RWF	TAL TAM
						(Start) 09/16/12 13:20		
						(End) 09/16/12 14:00		
Total/NA	Analysis	Field Sampling		1	128874	09/05/12 12:55		TAL TAM

Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-49818-2

Date Collected: 09/05/12 12:36

Matrix: Water

Date Received: 09/05/12 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	128625	09/06/12 07:40	AG	TAL TAM
Total/NA	Analysis	353.2		1	128695	09/06/12 08:47	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	128819	09/11/12 07:29	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	128828	09/11/12 09:55	TO	TAL TAM
Total/NA	Prep	SM 5220			129089	09/15/12 10:30	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	129090		RWF	TAL TAM
						(Start) 09/16/12 12:17		
						(End) 09/16/12 13:00		

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: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14

Method Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrate	MCAWW	TAL TAM
5220 D	Chemical Oxygen Demand	SM20	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
SM 5210B	BOD, 5-Day	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",

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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 Dept.
Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-49818-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-49818-1	LEACHATE EFFLUENT	Water	09/05/12 12:55	09/05/12 15:20
660-49818-2	BLANK EQUIPMENT	Water	09/05/12 12:36	09/05/12 15:20

660-49818

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET

LEACHATE TRUCKS AND TANKS MONITORING PROGRAMLEACHATE PLANT

PRECLEANED SAMPLE CONTAINERS:

RELINQUISHED BY:

ACCEPTED BY:

REP. OF CONTRACT LAB.

REP. OF SOLID WASTE DEPT.

DATE | TIME

9-4-12 2:10

LOCATION: LEACHATE EFFLUENTSAMPLE MATRIX: WATER OTHER MATRIX:PERSONAL ENGAGED IN SAMPLE COLLECTION: ☒ A. Balloun ☒ JC ☐FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:55	33.10	9053	8.10	5.24	N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

5 TOTAL No. OF SAMPLES COLLECTED:COLORS & SHEENS: YES N/A NO

COLLECTED

DATE | TIME

9-5-12 12:55

ANALYSIS REQUESTED:MONTHLY LEACHATE PLANT PARAMETERSBODTSSNITRATETDSCODPRESERVED SAMPLES PH < 2.0 YESSAMPLE 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

9-5-12 3:20
9-5-12 3:20COMMENTS: W0# 0070

3.7°C at 7

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
LEACHATE TRUCKS AND TANKS MONITORING PROGRAM
LEACHATE PLANT EQUIPMENT BLANK

PRECLEANED SAMPLE CONTAINERS: _____ DATE | TIME _____
 RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____
 ACCEPTED BY: ABC REP. OF SOLID WASTE DEPT. 9-5-12 2:10

LOCATION: **EQUIPMENT BLANK** SAMPLE MATRIX: **WATER** OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION: ☐ A. Balloon ☒ JL ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	1	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
3	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

5 TOTAL No. OF SAMPLES COLLECTED:

COLORS & SHEENS: YES N/A NO

COLLECTED
 DATE | TIME
9-5-12 12:36

ANALYSIS REQUESTED:

MONTHLY LEACHATE PLANT PARAMETERS **BOD** **TSS** **NITRATE** **TDS** **COD**

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: ABC REP. OF SOLID WASTE DEPT. 9-5-12 3:20
 ACCEPTED BY: Carol McMillan REP. OF CONTRACT LAB. 9-5-12 3:20

COMMENT'S: W040070

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-49818-1

Login Number: 49818

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	
Sample custody seals, if present, are 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	
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 containers received 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.	N/A	