



Southeast County Landfill Leachate Treatment Plant WACS Testsite #19864 Lithia, Florida

# Effluent Quality July-September 2021

Hillsborough County
Public Utilities Department
Environmental Services Division
332 North Falkenburg Road
Tampa, Florida 33619

Michael D. Townsel

Michael D. Townsel 11/30/21
Hydrologist
Environmental Services Division
Public Utilities Department

Southeast County Landfill Leachate Treatment Plant Effluent Report – Third Quarter 2021 WACS Testsite #19864

# **Southeast Landfill Quarterly Results (July-September 2021)**

In accordance with Southeast County Landfill (SCLF) permit modification 35435-29-SO-MM, dated May 24, 2021, the Hillsborough County Public Utilities Department (County), has prepared the quarterly effluent results for the SCLF leachate treatment plant (LTP), located at 15960 County Road 672 in Lithia, Florida.

Monthly sampling of the LTP effluent and the daily recording of the plant pH was conducted as required by the leachate management plan (LMP) as part of the referenced permit. Plant pH for the dates of August 11-13, 2021 were not recorded due to the leachate pumps turned off for maintenance. County personnel collected effluent samples from the designated sampling port at the treatment plant on July 9, August 10, and September 20, 2021 for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Nitrate, and field parameters.

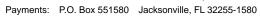
Each of the effluent samples were analyzed by our contract laboratory, Advanced Environmental Laboratories, Inc. and is consistent with the historical data over the period of record. Additionally, pH for the effluent exhibited a range from 7.00 to 7.55 pH units by LTP personnel and the field logs are exhibited as part of the submittal. The ADaPT EDD and quarterly report shall be uploaded to the FDEP Business Portal.

Month	7/21	]	PH Calibra	ation Log	* **	
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.79	7,21	
2	4,00	7,00	10.00	7.82	7.55	
3					10 × 3 = 5	
4				P		
5	4,00	7,00	10.00	7.83	7.47	
6	la de la constantina	7.00	10.00	7,65	7.11	× 1, 2
7	4.00	7.00	10.00	7.80	7.16	W 4
8	4.00	7.00	10.00	7.63	7.15	
9	4.00	7.00	10.00	7.54	7,14	8.45
10		,				
11						
12	4.00	7.00	10.00	7.51	7.2)	
13		7.00	10.00	7.48	7,18	
14		7.00	10.00			
15	400	7.00	10,00	7.43	7:25	
16	4.00	7.00	10,00	7,42	7,11	
17						* .
18						
19	4.00	7,00	10,08	7:38	7,12	
20	4,00	7,00	10,00	7,58	7.41	
21	4.00	7,00	10,00	7.44	7,21	
22	4.00	7.00	10,00	7,35	7,24	
23	4,00	7.00	10,00	7,44	7.19	
24			,			
25					4	
26	4.00	7.00	10.00	7.51	7.17	
27	- 11	7.00	10.00	7.32	7.14	
28	4.00	7.00	10.00	7,47	7,19	
29	1 8	7.06	10.00	7,54	7,25	
30	8	7.00	10.00	7.49	7.23	
31						
		· · · · · · · · · · · · · · · · · · ·	<u> </u>			

Month	8/21		PH Calibr	ation Log		
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	1					
2	4.00	7.00	10.00	7.31	7.35	
3	4-00	7.00	10.00	7.28	7, 31	
4	4.00	7.00	10.00	7.44	7.38	
5	4.00	7,00	10.00	7.26	7.25	
6	4.00	7.00	10.00	7.36	7.15	
7					<i>M</i> .	
8						
9	4.00	7.00	10.00	7.27	7.31	7.73
10	4.60	7,00	10.00	7.44	7,21	
11	4.00	7.00	10.00	7,38		
12	4.00	7.00	10.00	7.49		
13	4.00	7.00	10.00	7.28		
14						
15		in ju				
16		7.00	10.00	7.33	7.18	7.90
17	4.00	7.00	10.00	7.34	7.17	8.15
18	4.00	7.00	10.00	7.37	7.15	8.10
19	4.00	7.00	10.00	7.50	7.13	8.13
20	4.00	7.00	10.00	7.42	7.19	8.25
21						0.20
22		8 <sup>17</sup>				
23	4.00	7.00	10.00	7.19	7.00	7.61
24	4.00	7.00	10.00	7.24	7.01	7.53
25	4.00	7.00	10,00	7.19	7.0)	7.49
26	4.00	7.00	10.00	7.42	7.11	
27	4.00	7.00	10,00	7.47	7,27	
28		9			1	
29						
30	4.00	7.00	10.00	7.49	7.13	
	4.00	7.00	1.5		7.02	8,23

Month	9/21	] [	PH Calibr	ation Log		
Date	PH 4	PH 7	PH 10	INF PH	EFF PH	POND
1	4.00	7.00	10.00	7.28	7.0)	
2		7.00	10.00	7.30	7.03	
3	4.00	7.00	10.00	7.45	7.00	
4						
5	-					
6	t					
7	4.00	7.00	10.00	7.20	7.12	
8		7.00	10.00	7.53	7.15	
9		7.00	10.00	7,51	7.40	7.89
10	4.00	7.00	10,00	7.52	7.40	7,41
11						
12						
13		7.00	10.00	7.54	7.52	
14		7.00	10.00	7.51	7.43	
15		7.00	10.00	7.63	7.28	
16		7.00	10.00	7.39	7:46	
17	4,00	7.00	10.00	7.27	7.41	
18						
19		×				
20	4.00	7.00	10.00	7.43	7.32	
21	4.00	7.00	10.00	7.33	7.10	7.46
22	4.00	7-00	10.00	7.48	7.25	
23	4.00	7.00	10-00	7.23	7.26	
24	4.00	7.00	10.00	7.27	7.24	
25	4.00	7.00	10.00	7.22	7.27	
26	4.00	7.00	10.00	7.20	7.25	
27	4-00	7.00	10.00	7.14	7.27	7.38
28	4.00	7.00	10-00	7.34	7.33	7.63
29	400	フ、りひ	10.00	7.29	7.35	7.58
30	4.00	7.00	10.00	7.13	7.29	7.44
31						-







August 4, 2021

Michael Townsel Hillsborough Co Public Utilites 332 North Falkenburg Rd Tampa, FL 33619

RE: Workorder:

T2112324 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, July 09, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

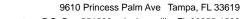
Heidi Parker - Project Manager

HParker@AELLab.com

**Enclosures** 

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Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Phone: (813)630-9616 Fax: (813)630-4327



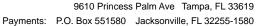
#### **SAMPLE SUMMARY**

Workorder: T2112324 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2112324001	Leachate Effluent	Water	7/9/2021 09:53	7/9/2021 10:45
T2112324002	Field Blank	Water	7/9/2021 09:47	7/9/2021 10:45

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#### **ANALYTICAL RESULTS**

Workorder: T2112324 SELF Plant Effluent

Date Received: 07/09/21 10:45 Lab ID: T2112324001 Matrix: Water

Leachate Effluent Date Collected: 07/09/21 09:53 Sample ID:

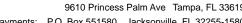
Sample Description: Location:

					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab ——
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Anal	ytical Me	thod: Field Me	asurements				
Conductivity	17823		umhos/cm	1			7/9/2021 09:53	
Dissolved Oxygen	4.71		mg/L	1			7/9/2021 09:53	
ORP-2580BW	28.1		mV	1			7/9/2021 09:53	
Temperature	30.1		°C	1			7/9/2021 09:53	
рН	7.13		SU	1			7/9/2021 09:53	
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water	Anal	ytical Me	ethod: EPA 410	.4				
Chemical Oxygen Demand	670		mg/L	1	50	20	7/14/2021 13:50	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM 2540	) C				
Total Dissolved Solids	11000		mg/L	1	10	10	7/14/2021 09:30	Т
Analysis Desc: TSS,SM2540D,Water	Anal	ytical Me	thod: SM 2540	)D				
Total Suspended Solids	150		mg/L	10	10	10	7/15/2021 16:30	Т
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Anal	ytical Me	ethod: SM 4500	NO3-F				
Nitrate (as N)	250		mg/L	250	25	23	7/9/2021 16:59	Т
Analysis Desc: BOD,SM5210B,Water	Anal	ytical Me	thod: SM 5210	)B				
Biochemical Oxygen Demand	64		mg/L	1	2.0	2.0	7/9/2021 14:25	Т

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#### **ANALYTICAL RESULTS**

Workorder: T2112324 SELF Plant Effluent

Date Received: 07/09/21 10:45 Lab ID: T2112324002 Matrix: Water

Field Blank Date Collected: 07/09/21 09:47 Sample ID:

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY							<u> </u>	
Analysis Desc: COD,E410.4,Water	Anal	ytical Me	ethod: EP	A 410.4				
Chemical Oxygen Demand	20	U	mg/L	1	50	20	7/14/2021 13:50	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM	2540 C				
Total Dissolved Solids	10	U	mg/L	1	10	10	7/14/2021 09:30	Т
Analysis Desc: TSS,SM2540D,Water	Anal	ytical Me	ethod: SM	2540D				
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	7/15/2021 16:30	Т
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water	Anal	ytical Me	ethod: SM	4500NO3-F				
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	7/9/2021 16:57	Т
Analysis Desc: BOD,SM5210B,Water	Anal	ytical Me	ethod: SM	5210B				
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	7/9/2021 14:42	Т

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#### **ANALYTICAL RESULTS QUALIFIERS**

Workorder: T2112324 SELF Plant Effluent

#### **PARAMETER QUALIFIERS**

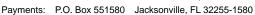
- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

#### LAB QUALIFIERS

- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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#### **QUALITY CONTROL DATA**

Workorder: T2112324 SELF Plant Effluent

QC Batch: WCAt/5455 Analysis Method: SM 4500NO3-F

QC Batch Method: SM 4500NO3-F Prepared:

Associated Lab Samples: T2112324001, T2112324002

METHOD BLANK: 3950366

Blank Reporting
Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Nitrate (as N) mg/L 0.092 0.092 U

LABORATORY CONTROL SAMPLE: 3950367

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

WET CHEMISTRY

Nitrate (as N) mg/L 1 0.96 96 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950368 3950369 Original: T2112335001

Original Spike MS MSD MS MSD % Rec Max Limit RPD RPD Qualifiers Parameter Units Result Conc. Result Result % Rec % Rec WET CHEMISTRY Nitrate (as N) mg/L 1.6 1 2.6 2.6 100 95 90-110 2 10

QC Batch: WCAt/5460 Analysis Method: SM 5210B

QC Batch Method: SM 5210B Prepared:

Associated Lab Samples: T2112324001, T2112324002

METHOD BLANK: 3950471

Blank Reporting
Parameter Units Result Limit Qualifiers

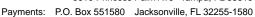
WET CHEMISTRY

Biochemical Oxygen Demand mg/L 2.0 2.0 U

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#### **QUALITY CONTROL DATA**

Workorder: T2112324 SELF Plant Effluent

LABORATORY CONTROL SAMPLE: 3950472

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

WET CHEMISTRY

Biochemical Oxygen mg/L 200 190 94 84.6-115.4

Demand

SAMPLE DUPLICATE: 3950473 Original: T2112382004

Original DUP Max
Parameter Units Result Result RPD RPD Qualifiers

WET CHEMISTRY

Biochemical Oxygen mg/L 2300 2100 11 20

Demand

QC Batch: WCAt/5536 Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4 Prepared:

Associated Lab Samples: T2112324001, T2112324002

METHOD BLANK: 3954788

Blank Reporting
Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Chemical Oxygen Demand mg/L 20 20 U

LABORATORY CONTROL SAMPLE: 3954789

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

WET CHEMISTRY

WEIGHENISTKI

Chemical Oxygen Demand mg/L 500 500 100 90-110

QC Batch: WCAt/5578 Analysis Method: SM 2540D

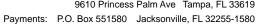
QC Batch Method: SM 2540D Prepared:

Associated Lab Samples: T2112324001, T2112324002

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#### **QUALITY CONTROL DATA**

METHOD BLANK: 3957923	3				
Parameter	Units	Blank Result	Reporting Limit Qu	ıalifiers	
WET CHEMISTRY Total Suspended Solids	mg/L	1.0	1.0 U		
LABORATORY CONTROL	SAMPLE: 3957	7924			
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Total Suspended Solids	mg/L	200	200	101	85-115
SAMPLE DUPLICATE: 399	57925		Original: T2112	2499001	
Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers
WET CHEMISTRY Total Suspended Solids	mg/L	140	130	7	10
QC Batch: WCA	at/5605		Analysis Meth	iod:	SM 2540 C
QC Batch Method: SM 2	2540 C		Prepared:		
Associated Lab Samples:	T2112324001,	T2112324002			
METHOD BLANK: 3959211	I				
Parameter	Units	Blank Result	Reporting Limit Qu	ıalifiers	
WET CHEMISTRY Total Dissolved Solids	mg/L	10	10 U		
LABORATORY CONTROL	SAMPLE: 3959	9212			
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
WET CHEMISTRY Total Dissolved Solids	mg/L	660	660	101	85-115

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#### **QUALITY CONTROL DATA**

Workorder: T2112324 SELF Plant Effluent

SAMPLE DUPLICATE: 3959214 Original: T2112358001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD Qualifiers	
WET CHEMISTRY Total Dissolved Solids	mg/L	160	140	8	10	

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#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: T2112324 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2112324001	Leachate Effluent			SM 4500NO3-F	WCAt/5455
T2112324002	Field Blank			SM 4500NO3-F	WCAt/5455
T2112324001	Leachate Effluent			SM 5210B	WCAt/5460
T2112324002	Field Blank			SM 5210B	WCAt/5460
T2112324001	Leachate Effluent			EPA 410.4	WCAt/5536
T2112324002	Field Blank			EPA 410.4	WCAt/5536
T2112324001	Leachate Effluent			SM 2540D	WCAt/5578
T2112324002	Field Blank			SM 2540D	WCAt/5578
T2112324001	Leachate Effluent			SM 2540 C	WCAt/5605
T2112324002	Field Blank			SM 2540 C	WCAt/5605
T2112324001	Leachate Effluent	Field Measurements	FLDt/	Field Measurements	FLDt/

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	A sir SO soil SL sludge	O = oil A = air SO = soil SL = sludge	le: 1 = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodiu Ned)	6447
	O = oil A = air SO = soil SL = sludoe	O = oil A = air SO = soil SL = sludge  Where required, pH checked Temp. whe	O = oil A = air SO = soil SL = sludge  Where required, pH checked Temp. whe used for measuring Temp by unique identifier (circle I Poate Time FO (when P I) A Contact Supplier Single Single Contact Supplier Single S	
	O = oil A = sir SO = soil SL = sludge	ater GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge ken from sample	O = oil A = air SO = soil SL = sludge  Where required, pH checked Temp. whe bused for measuring Temp by unique identifier (circle I Date Time FO (when P I/Q) 2   O4 C Contact Supplier	
Where required, pH checked Temp. when received (observed) °C Temp. when received (corrected) used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 / T: 10A A: 3A M: 3A S: 1V  Date Time FOR DRINKING WATER USE:	Time Received by: Date Time FOR DRINKING WATER USE:		Supplier of Water.	3/4/21 1045
Where required, pH checked Temp, when received (observed) °C Temp, when received (corrected) cused for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 / T: 10A A: 3A M: 3A S: 1V    Date Time   PWS Information not otherwise supplied) PWS ID:   Contact Person:	Time Received by: Date Time FOR DRINKING WATER USE:  (When PWS Information not otherwise supplied) PWS ID:  Contact Person:	5,601 12/01/1 5,000 12/01/2	City dadrage	
Where required, pH checked Temp. when received (observed) °C Temp, when received (corrected) cused for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V    Date	Time Received by: Date Time FOR DRINKING WATER USE:  (When PWS Information not otherwise supplied) PWS ID:  Contact Person:  Supplier of Water:	5/201 12/b/L Spor 12/b/L	AMERICAN III.	

### Form FD 9000-24 **GROUNDWATER SAMPLING LOG**

SITE SO	outheast (	County I	andfill -	Plant		TE OCATION: L	ithia	Floric	la				
	Field Bla		andini		ın: Field		iti iia,	1 10110		DATE:	7//	1/21	
WELL NO: I	rieiu biai	IIK		SAMPLE		SING DA	ТΔ			2300000 10	1/6	1/21	
WELL VOLU	(inches): N// UME PURGE: if applicable)	TUBING DIAMET	ER (inches): I	V/A DEF	LL SCREEN PTH: N/A PTH - STA	INTERVAL ft to N/A	t TO	R) X	(feet): N/A	0	R BAIL	PUMP TYPE LER: N/A	gallons
	T VOLUME PU if applicable)	RGE: 1 EQUI	PMENT VOL.	= PUMP VOI = <b>N/A</b>	.UME + (TUI	N/A gall	ITY X	TUE	I/A feet) +	+ FLOW	CELL V	OLUME	gallons
INITIAL PUN	MP OR TUBING		1 11 11 11 11 11	P OR TUBIN	T. C.	PURGI		1/^	PURGING	NI/A		MUJOV JATO	
DEPTH IN V	NELL (feet):	N/A	DEPTH IN V	VELL (feet):	N/A	INITIAT	ED AT: N		ENDED AT: DISSOLVED	IN/A	P	URGED (gallo	ns): IN//A
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	(circle umhos	units)	OXYGEN (circle units) (mg/L or % saturation	TURBI (NTL		COLOR (describe)	ODOR (describe)
-							-						-
							_						
					/	1							
					_	1							
								. i		4			
	-				1	Di	71	4/2	1				
	-/		+			1	11	110	1				
	/			-	-	/	17-1	7		1			
	/		-	-	-	-	FIEL	IAN	1-				
/						-	1	17410					
							-					-	-
WELL CAP	PACITY (Gallon	s Per Foot): (PACITY (Gal./	0.75" = 0.02; Ft.): 1/8" = 0.	1" = 0.04; 0006; 3/16	1.25" = 0. 5" = 0.0014;	06; 2" = 0 1/4" = 0.0		= 0.37; /16" = 0.0		5" = 1.02 0.006;	; 6" 1/2" =		" = 5.88 " = 0.016
	EQUIPMENT (			BP = Bladder		ESP = Electr		sible Pur	mp; PP = P	eristaltic F	Pump;	O = Othe	r (Specify)
					SAM	PLING D	ATA						
	BY (PRINT) /		ne l	SAMPLER(S	S) SIGNATU	RE(S):		-	SAMPLING INITIATED A	T:094	17	SAMPLING ENDED AT:	09.48
PUMP OR	TUBING	1.10:41	5	TUBING		-		FIELD	-FILTERED: Y	N	>	FILTER SIZE	μm
	WELL (feet):	N/A		MATERIAL	CODE: N/	Α			on Equipment Ty				
	CONTAMINATI	The state of the s	AP Y (		TUBING		(replaced)	5	DUPLICATE	. Y	(	N	
	PLE CONTAIN		7		SAMPLE	PRESERVAT			INTEND				SAMPLE PUMP
SAMPLE ID CODE		MATERIAL CODE		PRESERVA	TIVE	TOTAL VOI	- 1	FINAL pH	ANALYSIS A			ODE	FLOW RATE (mL per minute)
								/					
		-											
		-						diameter 1	-				
		-				_/						-	
REMARK	s: SEE C	.O.C. FC	OR SAM	PLE AN	ALYSI	s							
MATERIA	AL CODES:	AG = Amber	Glass: CG	= Clear Glas	s: PE = F	olyethylene;	PP = F	Polypropy	/lene; S = Silik	cone; T	= Teflo	on; O = Oti	ner (Specify)
	IG EQUIPMEN	T CODES:	APP = After P RFPP = Reve	eristaltic Pum	ip; B=	Bailer; Bi	= Bladde	er Pump;	ESP = Elect Gravity Drain);			Pump; Specify)	

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

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

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

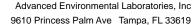
## Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE SO	utheast (	County L	andfill -	Plant		TE DCATION: L	ithia,	Florid	la			
	_eachate					chate Ef				DATE: 7	19/21	
WELL NO.	Loadilato					GING DA				-	111	
WELL DIAMETER (	inches): N/A	TUBING DIAMET	ER (inches):	N/A DEF	LL SCREEN PTH: N/A	INTERVAL ft to N/A	ft TO	WATER	PTH (feet): N/A WELL CAPACIT	OR	RGE PUMP TYPE BAILER: Va	0.00
(only fill out i	f applicable)		= ( 1	V/A fee	et - N/	A feet)	1 x	N/A	gallons/foot =	N/A		
(only fill out i	T VOLUME PU f applicable)	RGE: 1 EQUI		= PUMP VOI				N/A	feet) + N			gallons
INITIAL PUN	AP OR TUBING	3		P OR TUBIN		PURGIN	IG		PURGING		TOTAL VOL	
DEPTH IN V	VELL (feet):	N/A	DEPTH IN V	VELL (feet):	N/A	INITIATI	ED AT: N	I/A		N/A	PURGED (ga	allons): N/A
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	CON (circle i µmho:	units) s/cm	OXYGEN (circle units) mg/Dor % saturation	TURBIDI (NTUs		e) (describe)
09 <b>5</b> 3	N/A	N/A	N/A	N/A	7.13	30.1	178	23	4.71	N/A	Yellow	) FFFloent
-												
				-				-				
					1	2/9	100					
						/19	21					
-/							-					
		D . F	251 - 0.00	1" = 0.04;	1.25" = 0	.06; 2" = 0.	18: 3"	= 0.37;	4" = 0.65:	5" = 1.02;	6" = 1.47;	12" = 5.88
TUBING IN	ACITY (Gallon	PACITY (Gal./	Ft.): 1/8" = 0.		5" = 0.0014;		26; 5	16" = 0.0	004; 3/8" = 0		/2" = 0.010;	5/8" = 0.016 ther (Specify)
PURGING	EQUIPMENT C	ODES: B	= baller,	DP - DIAGGE		PLING D		510101 01				1
SAMPLED	BY (PRINT) / A	AFFILIATION:		SAMPLER(	S) SIGNATU				SAMPLING INITIATED A	T: 0953	3 SAMPLIN	
PUMP OR	TUBING WELL (feet):	N/A		TUBING	CODE: N	/A		FIELD-	-FILTERED: Y	ype: N	FILTER S	IZE: μm
	CONTAMINATION		MP Y /	$\cap$	TUBING		replaced	)	DUPLICATE	: Y	(3)	••
SAM	PLE CONTAINE	ER SPECIFIC	ATION	PRESERVA		PRESERVATI		FINAL	ANALYSIS /	AND/OR	SAMPLING EQUIPMENT	SAMPLE PUMP FLOW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	USED		DED IN FIELD		pH	/		CODE	(mL per minute)
						/						
REMARK	S: SEE C	.O.C. F0	OR SAM	PLE AN	IALYSI	s ORF	: 09	53(	28.1)			
	L CODES:	AG = Ambe		= Clear Glas		Polyethylene; Bailer; BF	PP = F	Polypropy			Teflon; O =	Other (Specify)
SAMPLIN	G EQUIPMENT	CODES:	APP = After P RFPP = Reve			and the same of th	aw Metho	d (Tubing	Gravity Drain);	0 = 0	ther (Specify)	

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

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

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







August 31, 2021

Michael Townsel Hillsborough Co Public Utilites 332 North Falkenburg Rd Tampa, FL 33619

RE:

Workorder:

T2114641 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, August 10, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these

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

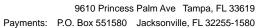
Sincerely,

Heidi Parker - Project Manager HParker@AELLab.com

**Enclosures** 

Report ID: 1075956 - 1406549 Page 1 of 13







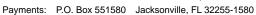
#### **SAMPLE SUMMARY**

Workorder: T2114641 SELF Plant Effluent

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T2114641001	Leachate Effluent	Water	8/10/2021 12:16	8/10/2021 13:40
T2114641002	Field Blank	Water	8/10/2021 12:05	8/10/2021 13:40

Report ID: 1075956 - 1406549 Page 2 of 13







#### **ANALYTICAL RESULTS**

Workorder: T2114641 SELF Plant Effluent

Lab ID: **T2114641001** Date Received: 08/10/21 13:40 Matrix: Water

Sample ID: Leachate Effluent Date Collected: 08/10/21 12:16

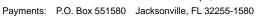
Sample Description: Location:

					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Anal	ytical Me	thod: Field Me	asurements				
Conductivity	15064		umhos/cm	1			8/10/2021 12:16	
Dissolved Oxygen	2.77		mg/L	1			8/10/2021 12:16	
ORP-2580BW	88.8		mV	1			8/10/2021 12:16	
Temperature	33.5		°C	1			8/10/2021 12:16	
pH	6.24		SU	1			8/10/2021 12:16	
WET CHEMISTRY								
Analysis Desc: COD,E410.4,Water	Anal	ytical Me	thod: EPA 410	.4				
Chemical Oxygen Demand	400		mg/L	1	50	20	8/16/2021 13:20	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM 2540	) C				
Total Dissolved Solids	9500		mg/L	1	10	10	8/13/2021 15:00	Т
Analysis Desc: TSS,SM2540D,Water	Anal	ytical Me	thod: SM 2540	)D				
Total Suspended Solids	110		mg/L	5	5.0	5.0	8/11/2021 15:30	Т
Analysis Desc: Nitrate,Nitrite SM4500NO3F,Water	Anal	ytical Me	ethod: SM 4500	NO3-F				
Nitrate (as N)	190		mg/L	125	12	12	8/11/2021 12:34	Т
Analysis Desc: BOD,SM5210B,Water	Anal	ytical Me	ethod: SM 5210	В				
Biochemical Oxygen Demand	3.5		mg/L	1	2.0	2.0	8/11/2021 13:30	Т

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#### **ANALYTICAL RESULTS**

Workorder: T2114641 SELF Plant Effluent

Lab ID: **T2114641002** Date Received: 08/10/21 13:40 Matrix: Water

Sample ID: Field Blank Date Collected: 08/10/21 12:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY	rtodato	- Guai					,	
Analysis Desc: COD,E410.4,Water	Anal	ytical Me	ethod: EP	A 410.4				
Chemical Oxygen Demand	20	U	mg/L	1	50	20	8/16/2021 13:20	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM	I 2540 C				
Total Dissolved Solids	10	U	mg/L	1	10	10	8/13/2021 15:00	Т
Analysis Desc: TSS,SM2540D,Water	Anal	ytical Me	ethod: SM	I 2540D				
Total Suspended Solids	1.0	U	mg/L	1	1.0	1.0	8/11/2021 15:30	Т
Analysis Desc: Nitrate, Nitrite SM4500NO3F, Water	Anal	ytical Me	ethod: SM	I 4500NO3-F				
Nitrate (as N)	0.092	U	mg/L	1	0.10	0.092	8/11/2021 11:14	Т
Analysis Desc: BOD,SM5210B,Water	Anal	ytical Me	ethod: SM	I 5210B				
Biochemical Oxygen Demand	2.0	U	mg/L	1	2.0	2.0	8/11/2021 13:38	Т

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Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Phone: (813)630-9616 Fax: (813)630-4327



#### **ANALYTICAL RESULTS QUALIFIERS**

Workorder: T2114641 SELF Plant Effluent

#### **PARAMETER QUALIFIERS**

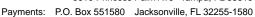
- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

#### LAB QUALIFIERS

- T DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- T^ Not Certified

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#### **QUALITY CONTROL DATA**

Workorder: T2114641 SELF Plant Effluent

QC Batch: WCAt/6152 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Prepared:

Associated Lab Samples: T2114641001, T2114641002

METHOD BLANK: 3986331

Blank Reporting

Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Total Suspended Solids mg/L 1.0 1.0 U

LABORATORY CONTROL SAMPLE: 3986332

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

WET CHEMISTRY

Total Suspended Solids mg/L 200 190 97 85-115

SAMPLE DUPLICATE: 3986333 Original: T2114644002

Original DUP Max
Parameter Units Result Result RPD RPD Qualifiers

WET CHEMISTRY

Total Suspended Solids mg/L 1200 8 10

QC Batch: WCAt/6162 Analysis Method: SM 4500NO3-F

QC Batch Method: SM 4500NO3-F Prepared:

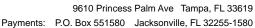
Associated Lab Samples: T2114641001, T2114641002

METHOD BLANK: 3986390

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Environmental Laboratories, Inc.

Phone: (813)630-9616 Fax: (813)630-4327

#### **QUALITY CONTROL DATA**

workorder.	12114041	SELF	Fiant Emuent	

LABORATORY CONTROL SAMPLE: 3986391

Spike LCS LCS % Rec

Units Conc. % Rec Limits Qualifiers Parameter Result

WET CHEMISTRY

Nitrate (as N) 1 1.0 102 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3986392 Original: T2114607002 3986393

Original Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Result Result % Rec % Rec Limit RPD RPD Qualifiers

WET CHEMISTRY

Nitrate (as N) mg/L 0.52 1 1.6 1.5 104 101 90-110 2 10

QC Batch: WCAt/6196 Analysis Method: SM 5210B

QC Batch Method: SM 5210B Prepared:

T2114641001, T2114641002 Associated Lab Samples:

METHOD BLANK: 3987792

Blank Reporting

Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Biochemical Oxygen Demand mg/L 2.0 2.0 U

LABORATORY CONTROL SAMPLE: 3987793

% Rec Spike LCS LCS Limits Qualifiers Parameter Units Conc. Result % Rec WET CHEMISTRY 200 180 89 84.6-115.4 mg/L

Biochemical Oxygen

SAMPLE DUPLICATE: 3987794

Demand

Original DUP Max

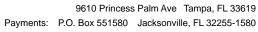
**RPD** Qualifiers **RPD** Parameter Units Result Result

WET CHEMISTRY

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Original: T2114725001







#### **QUALITY CONTROL DATA**

Workorder: T2114641 SELF Plant Effluent

SAMPLE DUPLICATE: 3987794 Original: T2114725001

Original DUP Max Result RPD **RPD** Qualifiers Parameter Units Result

Biochemical Oxygen 2300 2100 8 20 mg/L

Demand

QC Batch: WCAt/6242 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: T2114641001, T2114641002

METHOD BLANK: 3990065

Blank Reporting

Parameter Units Result Limit Qualifiers

WET CHEMISTRY

**Total Dissolved Solids** 10 10 U mg/L

LABORATORY CONTROL SAMPLE: 3990066

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers WET CHEMISTRY

**Total Dissolved Solids** mg/L 660 660 100 85-115

SAMPLE DUPLICATE: 3990067 Original: T2114584003

Original DUP Max Parameter Units Result Result RPD **RPD** Qualifiers

WET CHEMISTRY

**Total Dissolved Solids** mg/L 170 170 10 EPA 410.4

QC Batch: WCAt/6277 Analysis Method:

QC Batch Method: EPA 410.4 Prepared:

Associated Lab Samples: T2114641001, T2114641002

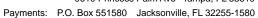
METHOD BLANK: 3991739

Blank Reporting Parameter Units Result Limit Qualifiers WET CHEMISTRY

Chemical Oxygen Demand 20 20 U mg/L

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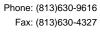
#### **QUALITY CONTROL DATA**

Workorder: T2114641 SELF Plant Effluent

LABORATORY CONTROL S.	AMPLE: 3	3991740									
Parameter	Units		oike onc.	LCS Result	L % F	CS Rec	% Rec Limits C	Qualifiers			
WET CHEMISTRY Chemical Oxygen Demand	mg/L		500	500	1	101	90-110				
MATRIX SPIKE & MATRIX S	PIKE DUPL	LICATE: 3991	1742	3991	743	Orig	inal: A210	6825001			
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	5.5	500	550	550	110	110	90-110	0	10	
MATRIX SPIKE & MATRIX S	PIKE DUPL	ICATE: 3991	746	3991	747	Orig	inal: T211	4738002			
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY Chemical Oxygen Demand	mg/L	73	500	550	550	96	96	90-110	0	10	

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#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: T2114641 SELF Plant Effluent

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T2114641001	Leachate Effluent			SM 2540D	WCAt/6152
T2114641002	Field Blank			SM 2540D	WCAt/6152
T2114641001	Leachate Effluent			SM 4500NO3-F	WCAt/6162
T2114641002	Field Blank			SM 4500NO3-F	WCAt/6162
T2114641001	Leachate Effluent			SM 5210B	WCAt/6196
T2114641002	Field Blank			SM 5210B	WCAt/6196
T2114641001	Leachate Effluent			SM 2540 C	WCAt/6242
T2114641002	Field Blank			SM 2540 C	WCAt/6242
T2114641001	Leachate Effluent			EPA 410.4	WCAt/6277
T2114641002	Field Blank			EPA 410.4	WCAt/6277
T2114641001	Leachate Effluent	Field Measurements	FLDt/	Field Measurements	FLDt/

Report ID: 1075956 - 1406549 Page 10 of 13





# GROUNDWATER SAMPLING LOG

					SITE							
SITE NAME: SOU	theast C	ounty La	andfill - P	lant	LOC	ATION: LI		orida	10000		1 1	
	eachate			SAMPLE	D: Leac				D	ATE: T	110/2	
						ING DA						
WELL DIAMETER (in	nches): N/A	TUBING	R (inches): N	/A DEP	L SCREEN IN TH: N/A ff	to N/A	t TO W	ATER	(feet): N/A	OR B	BE PUMP TYPE AILER: Valv	е
WELL VOLUM	ME PURGE: 1	WELL VOLU	JME = (TOTAL	WELL DEP	TH - STAT	IC DEPTH T	O WATER)	X V	VELL CAPACIT	Υ		
only fill out if a			= ( N	/A fee	t- N/A	feet)	x N/A	Α ,	gallons/foot =	N/A	gallons	
EQUIPMENT (only fill out if	VOLUME PUF	RGE: 1 EQUIP	PMENT VOL. =	PUMP VOL	UME + (TUBI	NG CAPACI						
(Only fill Out if	аррисавіся		= N	I/A gallo	ns + ( N/A			Α	feet) + N/	A gallons	= N/A ga	llons
	P OR TUBING		FINAL PUMP		N/A	PURGIN	G ED AT: N/A	\	ENDED AT:	N/A	PURGED (gallo	
DEPTH IN W	ELL (feet):	N/A	DEPTH IN W	DEPTH		HALL	COND.	T	DISSOLVED OXYGEN			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	pH (standard units)	TEMP. (°C)	(circle unit: µmhos/cn or (µS/cri	n	(circle units) mg/L or % saturation	TURBIDIT' (NTUs)	(describe)	ODOR (describe)
1216	N/A	N/A	N/A	N/A	6.24	33.5	1506	4	2,77	N/A	Brown	Effant
			-					+				1
			<del></del>									
1			1									
1							7	61	10/2		+	
		/		(		,	1	-			-/-	
					$\sim$		1	-				
$\overline{}$												
								\		1	6" = 1.47; 1	2" = 5.88
WELL CAP	ACITY (Gallon	s Per Foot): PACITY (Gal./	0.75" = 0.02; Ft.): 1/8" = 0.0	1" = 0.04; 0006; 3/1	6" = 0.0014;	1/4" = 0.00	26; 5/16	" = 0.0			2" = 0.010; 5/	8" = 0.016
	EQUIPMENT (		3 = Bailer;	BP = Bladde	r Pump;	ESP = Electric		le Pur	mp; PP = P	eristaltic Pun	np; O = Oth	er (Specify)
CAMPLED	BY (PRINT) / A	VEEL IATION:		SAMPLER(	S) SIGNATUF		AIA		SAMPLING	10.17	SAMPLING	1218
	Jac, La			0	m	/			INITIATED A	1		
PUMP OR	TUBING WELL (feet):			TUBINO MATERIAL	CODE: N/	Α		FIELD. Filtration	-FILTERED: \ on Equipment T	ype:	FILTER SIZ	Œ: μm
	CONTAMINAT		MP Y		TUBING		(replaced)		DUPLICATE		N	
	PLE CONTAIN		ATION			PRESERVAT		NA.	ANALYSIS	AND/OR	SAMPLING EQUIPMENT	SAMPLE PUMP FLOW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERV		TOTAL VOI		pH	метн	OD	CODE	(mL per minute)
								/				
-												
						_/						
REMARK	s: SEE C	.O.C. F	OR SAM	PLE AI	NALYSI	s ORI	P: 1211	6	88,8)			
MATERIA	AL CODES:	AG = Amb		= Clear Gla		olyethylene;	PP = Po			licone; T = ectric Submer	1011011	Other (Specify)
SAMPLIN	NG EQUIPMEN	IT CODES:	APP = After F RFPP = Reve	Peristaltic Pu erse Flow Pe	mp; B = ristaltic Pump			(Tubin	g Gravity Drain	); O = Ot	her (Specify)	

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

2. Stabilization Criteria For Range of Variation of Last three Consecutive Readings (SEE FS 2212, SECTION 3)

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

# Form FD 9000-24 GROUNDWATER SAMPLING LOG

	itheast C ield Blan		and m	SAMPLE		d Blank				ATE: 8	10/21	
ELL NO: F	leiu biaiii	`		Gram au		SING DA	TA	2012212		/		
ELL		TUBING			LSCREEN	INTERVAL	STAT	IC DEPT			BAILER: N/A	
	nches): N/A	DIAMETE	R (inches): N	I/A DEP	TH: N/A	ft to N/A ft	TO W	ATER (f	feet): N/A	Y	BAILER: IN/	`
ELL VOLUI	ME PURGE: 1 applicable)	WELL VOLU	- / N	J/A fe	et –	V/A f	eet) X	N/	A ga	lons/foot =	N/A	gallons
QUIPMENT	VOLUME PUR	GE: 1 EQUIP	PMENT VOL. =	PUMP VOL	UME + (TU	BING CAPACI	TY X	TUBIN	NG LENGTH)			
nly fili out if	applicable)			N/A	gallons + (	N/A gallo	ns/foot X	N/.	A feet) +	N/A	gallons = N/	
IITIAL PUM	P OR TUBING		FINAL PUMP	OR TUBINO	3	PURGIN	IG		PURGING ENDED AT:	NI/Δ	TOTAL VOLU	llons): N/A
		I/A	DEPTH IN W	/ELL (feet):	N/A	INITIAT	ED AT: N/	1 6	ISSOLVED	INA	PORGED (ga	lions). 1477 C
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle un µmhos/o or µS/c	its) m	OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBIDI (NTUs)		
												/
					/							+-/-
		1								L A	_	+/-
\	Tie	10					1	-		1	-	+/-
	41	1			1	1	-	1		0	-	1
1	01	1	1	<u>/</u>	15/1	0/21		1		-		/
	121	0~	/		TUI	1		-				
	6.77							-	1		1	
			<i>Y</i> -		-				1			
_		_/		-	-		1		/			
WELL CAP	PACITY (Gallon ISIDE DIA. CAF	s Per Foot): ACITY (Gal.	0.75" = 0.02; /Ft.): 1/8" = 0.	1" = 0.04; 0006; 3/1	1.25" = 6" = 0.0014	; 1/4" = 0.0	026; 5/1	0.37; 6" = 0.0			1/2" = 0.010;	12" = 5.88 5/8" = 0.016 ther (Specify)
	EQUIPMENT C		3 = Bailer;	BP = Bladde	r Pump;	ESP = Elect		ible Pum	ip; PP=	Peristaltic P	ump; 0 - 0	tile! (opecity)
				CAMBLER	SAN S) SIGNAT	IPLING D	DATA		SAMPLING		SAMPLIN	IG . :_
_ /	BY (PRINT) / A			30	2	1	2		INITIATED	AT: 120	S ENDED	AT: 120
PUMP OR	Aquila TUBING	4		TUBING		1		FIELD-	FILTERED: in Equipment	Y N	FILTER S	SIZE: µm
DEPTH IN	WELL (feet):	N/A		7 h	CODE: N		I/I	Filtratio	DUPLICAT		(N)	
FIELD DE	CONTAMINATI	ON: PU		<u> </u>	TUBIN		(replaced)		INTEN		SAMPLING	SAMPLE PUM
SAM	IPLE CONTAIN		CATION	DRECERV		TOTAL VO		FINAL	ANALYSIS	AND/OR	EQUIPMENT	FLOW RATE
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERV USE		DDED IN FIEL		рН	MET	100	CODE	(inc per minut
								/				
									-			
REMARI	s: SEE C	.O.C. F	OR SAN	IPLE A	NALYS	SIS						011
	AL CODES:	AG = Amb	01	3 = Clear Gla	ee: PE:	= Polyethylene	PP = P	olypropy	/lene; S = S	ilicone; T	= Teflon; O =	Other (Specify)

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

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

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



Advanced Environmental Laboratories, Inc 9610 Princess Palm Ave Tampa, FL 33619

Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Phone: (813) 630-9616 Fax: (813) 630-4327

#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

October 26, 2021

Michael Townsel Hillsborough Co Public Utilites 332 North Falkenburg Rd Tampa, FL 33619

RE: Workorder: T2117391 SELF Plant Effluent

Dear Michael Townsel:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday September 20, 2021. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Parker

Sincerely,

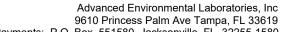
HParker@aellab.com

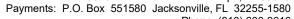
Tuesday, October 26, 2021 3:08:52 PM

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Dates and times are displayed using (-04:00)









Page 2 of 14

Phone: (813) 630-9616 Fax: (813) 630-4327

#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

# **Sample Summary**

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported
T2117391001	Leachate Effluent	WA	EPA 410.4	09/20/2021 09:28	09/20/2021 10:30	1
T2117391001	Leachate Effluent	WA	Field Measurements	09/20/2021 09:28	09/20/2021 10:30	5
T2117391001	Leachate Effluent	WA	SM 2540 C	09/20/2021 09:28	09/20/2021 10:30	1
T2117391001	Leachate Effluent	WA	SM 2540D	09/20/2021 09:28	09/20/2021 10:30	1
T2117391001	Leachate Effluent	WA	SM 4500NO3-F	09/20/2021 09:28	09/20/2021 10:30	1
T2117391001	Leachate Effluent	WA	SM 5210B	09/20/2021 09:28	09/20/2021 10:30	1
T2117391002	Field Blank	WA	EPA 410.4	09/20/2021 09:23	09/20/2021 10:30	1
T2117391002	Field Blank	WA	SM 2540 C	09/20/2021 09:23	09/20/2021 10:30	1
T2117391002	Field Blank	WA	SM 2540D	09/20/2021 09:23	09/20/2021 10:30	1
T2117391002	Field Blank	WA	SM 4500NO3-F	09/20/2021 09:23	09/20/2021 10:30	1
T2117391002	Field Blank	WA	SM 5210B	09/20/2021 09:23	09/20/2021 10:30	1







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#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

# **Analytical Results Qualifiers**

#### **Parameter Qualifiers**

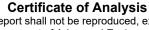
The compound was analyzed for but not detected.

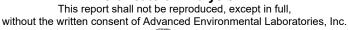
The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

#### **Lab Qualifiers**

Т^ Not Certified

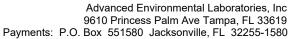
Т DOH Certification #E84589 (FL NELAC) AEL-Tampa

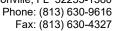














#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

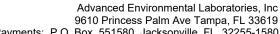
<b>Analytical Result</b>
--------------------------

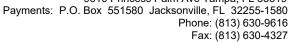
Lab ID: T2117391001 Sample ID: Leachate Effluent	Date Collecte Date Receive		/2021 /2021			Matrix: Water		
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Field Parameters (Field Measurements)								
Conductivity	13296	umhos			1	09/20/2021 09:28	09/20/2021 09:28	
Dissolved Oxygen	3.09	mg/L			1	09/20/2021 09:28	09/20/2021 09:28	
ORP-2580BW	126.9	mV			1	09/20/2021 09:28	09/20/2021 09:28	
Temperature	29.4	°C			1	09/20/2021 09:28	09/20/2021 09:28	
pH	6.52	SU			1	09/20/2021 09:28	09/20/2021 09:28	
Wet Chemistry (EPA 410.4)								
Chemical Oxygen Demand	360	mg/L	50	20	1	09/28/2021 09:15	09/28/2021 09:15	Т
Wet Chemistry (SM 2540 C)								
Total Dissolved Solids	6300	mg/L	10	10	1	09/23/2021 16:00	09/23/2021 16:00	Т
Wet Chemistry (SM 2540D)								
Total Suspended Solids	34	mg/L	10	10	10	09/23/2021 14:00	09/23/2021 14:00	Т
Wet Chemistry (SM 4500NO3-F)								
Nitrate (as N)	170	mg/L	12	12	125	09/20/2021 18:45	09/20/2021 18:45	Т
Wet Chemistry (SM 5210B)								
Biochemical Oxygen Demand	15	mg/L	2	2.0	1	09/20/2021 14:39	09/20/2021 14:39	Т



Tuesday, October 26, 2021 3:08:52 PM Dates and times are displayed using (-04:00)

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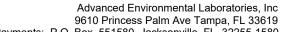


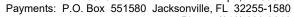
#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

Analytical Results								
Lab ID: T2117391002 Sample ID: Field Blank	Date Collecte Date Receive		)/2021 )/2021			<b>Matrix:</b> Water		
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
Wet Chemistry (EPA 410.4)								
Chemical Oxygen Demand	20U	mg/L	50	20	1	09/28/2021 09:15	09/28/2021 09:15	Т
Wet Chemistry (SM 2540 C)								
Total Dissolved Solids	10U	mg/L	10	10	1	09/23/2021 16:00	09/23/2021 16:00	Т
Wet Chemistry (SM 2540D)								
Total Suspended Solids	2.0U	mg/L	2	2.0	2	09/23/2021 14:00	09/23/2021 14:00	Т
Wet Chemistry (SM 4500NO3-F)								
Nitrate (as N)	0.092U	mg/L	0.1	0.092	1	09/20/2021 18:44	09/20/2021 18:44	Т
Wet Chemistry (SM 5210B)								
Biochemical Oxygen Demand	2.0U	mg/L	2	2.0	1	09/20/2021 14:44	09/20/2021 14:44	Т

**Certificate of Analysis** 







#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

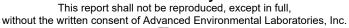
#### **QC** Results

QC Batch: WCAt/7030 Analysis Method: SM 5210B

**Preparation Method:** SM 5210B

**Associated Lab IDs:** T2117391001, T2117391002

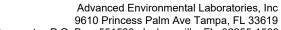
Method Blank(4032976)						
Parameter		Results	Units	PQL	MDL	Lab
Biochemical Oxygen Demand		2.0U	mg/L	2.0	2.0	Т
Lab Control Sample (4032977)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Biochemical Oxygen Demand	mg/L	198	188	95	84.60 - 115.40	Т
Sample Duplicate (4032978)						
Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Biochemical Oxygen Demand	2717.8	2664.14	mg/L	2	20	Т

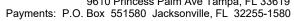






**Certificate of Analysis** 







#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

#### **QC** Results

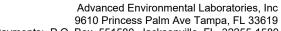
QC Batch: WCAt/7034 Analysis Method: SM 4500NO3-F

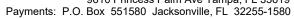
**Preparation Method:** SM 4500NO3-F

Associated Lab IDs: T2117391001, T2117391002

Method Blank(40330	99)										
Parameter				Results			Units	PQL		MDL	Lab
Nitrate (as N)				0.092U			mg/L	0.10		0.092	Т
Lab Control Sample	(4033100)										
Parameter			Units	Spiked Amo	unt	Spike	Result	Spike Recovery	Cor	ntrol Limits	Lab
Nitrate (as N)			mg/L	1		1		103	90 -	110	Т
Matrix Spike (403310	1); Matrix Spike	Duplicate	(4033102)								
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Con Limi		Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Nitrate (as N)	mg/L	1	2.2	98	90 -	110	2.2	102	2	10	Т









#### **FINAL**

Analysis Method: SM 2540D

Workorder: SELF Plant Effluent (T2117391)

#### **QC** Results

QC Batch: WCAt/7114

Preparation Method: SM 2540D

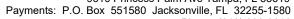
Associated Lab IDs: T2117391001, T2117391002

Method Blank(4036908)						
Parameter		Results	Units	PQL	MDL	Lab
Total Suspended Solids		1.0U	mg/L	1.0	1.0	Т
Lab Control Sample (4036909)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Suspended Solids	mg/L	200	200	98	85 - 115	Т
Sample Duplicate (4039040)						
Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Suspended Solids	174	180	mg/L	3	10	











#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

#### **QC** Results

QC Batch: WCAt/7118 Analysis Method: SM 2540 C

**Preparation Method:** SM 2540 C

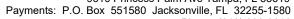
Associated Lab IDs: T2117391001, T2117391002

Method Blank(4036923)						
Parameter		Results	Units	PQL	MDL	Lab
Total Dissolved Solids		10U	mg/L	10	10	Т
Lab Control Sample (4036924)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	660	100	85 - 115	Т
Sample Duplicate (4036925)						
Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	686	746	mg/L	8	10	Т



**Certificate of Analysis** 







#### **FINAL**

Analysis Method: EPA 410.4

Workorder: SELF Plant Effluent (T2117391)

#### **QC** Results

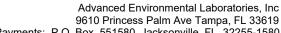
QC Batch: WCAt/7211

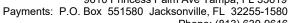
**Preparation Method:** EPA 410.4

**Associated Lab IDs:** T2117391001, T2117391002

Method Blank(4041653)											
Parameter				Results			Units	PQL	M	DL	Lab
Chemical Oxygen Demand			20U				mg/L	50	2	0	Т
Lab Control Sample (40416	54)										
Parameter			Units	Spiked Amo	ount	Spike	Result	Spike Recovery	Cont	rol Limits	Lab
Chemical Oxygen Demand		mg/L	500	510		101	90 - 110		Т		
Matrix Spike (4041656); Ma	trix Spike	Duplicate (4	1041657)								
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Con Lim		Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	mg/L	500	600	110	90 -	110	600	110	0	10	Т
Matrix Spike (4041660); Ma	trix Spike	Duplicate (4	1041661)								
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Con Lim		Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Chemical Oxygen Demand	emical Oxygen Demand mg/L 500				90 -	110	530	106	0	10	Т





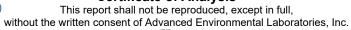




#### **FINAL**

Workorder: SELF Plant Effluent (T2117391)

QC Cross Reference			
Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/7030 - SM 5210B			
T2117391001	Leachate Effluent		
T2117391002	Field Blank		
WCAt/7034 - SM 4500NO3-F			
T2117391001	Leachate Effluent		
T2117391002	Field Blank		
WCAt/7114 - SM 2540D			
T2117391001	Leachate Effluent		
T2117391002	Field Blank		
WCAt/7118 - SM 2540 C			
T2117391001	Leachate Effluent		
T2117391002	Field Blank		
WCAt/7211 - EPA 410.4			
T2117391001	Leachate Effluent		
T2117391002	Field Blank		







**Certificate of Analysis** 

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			M.		DCN: AD-D051web	Received on Ice	Code: W											SAMPLE ID		AEL Profile #:	Turn Around Time:	d By:	***			_				
			Mulay	Relinquished by:		Wes	Matrix Code: WW = wastewater											0			Sta	?	Micha	(813)	(813)	Tampa, FL 33619	332 North Falkenburg Rd	Hills. Co. Public Utilities	William Parks	
			ĝ	ed by:	Form last revised	N		1									Le	SAMPLE			Standard	N.	Michael Townsel	(813) 274-6801	(813) 663-3222	L 33619	Falkenb	Public U	Hdvanced Environme	-
		-	9/2	D	d 08/07/2019	Temp	SW = surface water									Field Blank	Leachate				<b>ע</b>	DIAGO	sel	1	2		ນurg Rd	tilities	ental Lab	-
			12/21 10	Date	19	Temp taken from sample	1	1								Blank	Effluent	DESCRIPTION			Rush	5							Hdvanced Environmental Laboratories, Inc.	
			030	Time		n sample	<b>GW</b> = ground water										7	CN		AL		Sp		FI	FD	PO	Pro	Pro		П
		(	1			☐ Ten			+									<u>ှ</u>	<u>െ</u>	ADaPT		Special Instructions:		FDEP Facility Addr.	FDEP Facility No:	PO Number:	Project Number:	Project Name:	Fort Myer   Jacksonv   Tallahass	Altamonte
				Received by:		Temp from blank	<b>DW</b> = drinking water		+							- apole	6 a/2	$\vdash$	Grab	EQ		tions:			, e	N/A	N/A	SELF	□ Fort Myers: 13100 Westlinks Terrace, Ste. 10, FL 33913 · 239.674.8130 · Lab ID: E84492 □ Jacksonville: 6881 Southpoint Pkwy., FL 32216 · 904.383.9350 · Lab ID: E82574 □ Tallahassee: 2639 North Monroe St., Suite D, FL 32303 · 850.219.6274 · Lab ID: E811095	Altamonte Springs: 380 Northlake Blvd., Ste. 1048, FL 32701 • 407.937.1594 • Lab ID: E53076
				by:	Device used for measuring Temp by unique identifier (circle IK temp gun used)	× ×		1	+						Ç	+-	Harber	DATE T	SAMPLING	EQuIS				15960 CR 672				.F Plant I	links Terrace, S thpoint Pkwy., F h Monroe St., S	380 Northlake B
_		-	2		d for meas	Where required, pH checked	0 = 0  A =	$\vdash$	+						200	,	V SCHA	TIME		Other				72				Plant Effluent	te. 10, FL 3391; 'L 32216 • 904.; uite D, FL 3230;	lvd., Ste. 1048,
		_	11 WAN 031	Date	uring Temp	red, pH che	air so								Perch	□	WW	CC		)er									3 • 239.674.813 363.9350 • Lab 3 • 850.219.627	FL 32701 • 407
			030	Time	by unique	ecked	6	2			1,697.16				1	+	+	=									BOT	TLE SIZE	0 • Lab ID: E84 ID: E82574 4 • Lab ID: E81	.937.1594 • Lab
	Su		_		identifier (	Tem	= SIU											Field- Filtered?	Preservation			ALYS	SIS F	REQU	IIREI	)		TYPE	492 1095	ID: E53076
Site-Address:	Supplier of Water:	Contact Person:	When PWS	FOR	circle IR te	b. when red	776		-							×	×			CC										
ress:	ater:	rson:	Information	FOR DRINKING	mp gun us	Temp. when received (observed)	Preservation Code.	-	$\dashv$			+	-			×	×  ×	$\vdash$		BC				-			١.			_
			not otherwise	NG WA	' II	œ			+				-	-		×	×			TS	SS			- +					☐ <u>Gaines</u> ☐ <u>Mirama</u> ☐ <u>Tampa:</u>	
			(When PWS Information not otherwise subplied) Prvo ic.	WAITKO		1	)  - In	- H=/H/								×	×			Ni	trate	;		- 2 - 1					/ille: 4965 SV //: 10200 USA 9610 Princess	
					*			H=(HCI) S = (H2SO4) N = (HNO3) T = (Sodium																_ `	7 2				Gainesville: 4965 SW 41st Blvd., FL 32608 • 352.377.2349 -Lab ID: E82001  Miramar: 10200 USA Today Way, FL 33025 • 954.889.2288 • Lab ID: E82535  Tampa: 9610 Princess Palm Ave., FL 33619 • 813.630.9616 • Lab ID: E84589	
						7	(4)	)SO4) N =			_	-													7 2 0 1 *				32608 • 352.3 33025 • 954.88 33619 • 813.63	Page
					7. U.Y. 181. U.Y.	Selved (con	(11400)	(HNO3) T	_		,	+					-	-											77.2349 •Lab ID 9.2288 • Lab ID 0.9616 • Lab ID:	다 일 일
					ļ	rected)	1	= (Sodium			-	+					+			-									E82535 E84589	
	1	1			5	'n ,		Thiosulfate				+				28	18		L AB(	L OR	AT(	DRY	' I.D	. NU	IMB	ER			1	1

# Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE  NAME: Southeast County Landfill - Plant   SITE   LOCATION: Lithia, Florida														
NAME: SO	outheast	County L	andfill - l	Plant	LO	cation: L	ithia, Flor	ida						
WELL NO:	Leachate	e Effluen	t	SAMPLE	id: Lead	hate Eff	fluent		DATE: Ó	9/20/	2021			
					PURG	ING DA	TA							
WELL		TUBING			LL SCREEN I		STATIC I			RGE PUMP TY				
	(inches): N/A		ER (inches):	I	PTH: N/A		I I O VVAII	ER (feet): N/A		BAILER: Va	lve			
WELL VOL	.UME PURGE:	1 WELL VOL	UME = (TOTA	L WELL DEF	PTH – STAT	TIC DEPTH T	O WATER) X	WELL CAPACI	TY					
(only illi out	. п аррпсавіс)		= ( N	I/A fee	et – <b>N/A</b>	feet)	x N/A	gallons/foot	N/A	gallons				
EQUIPMEN	NT VOLUME PL	JRGE: 1 EQU						UBING LENGTH)	+ FLOW CE					
(only fill out	if applicable)			1/4	NI/		NI/A	N.	ΙΛ	NI/A				
INITIAL DU	MD OD TUDIN		=      FINAL PUM		ons + ( N/A	gallons/fo		feet) + IN	/A gallon	s = <b>N/A</b> TOTAL VOLU	gallons			
	MP OR TUBINO	N/A			N/A		D AT: <b>N/A</b>	ENDED AT:	N/A		llons): N/A			
DEPTHIN	WELL (feet):		DEPTH IN V	T		INITIATE		DISSOLVED	14// \	FUNGED (ga	mons). Tare			
TIME	TIME PURGED RATE WATER (standard (%C) umbes/cm (circle units) (NT Is) (describe) (describe)													
TIME	TIME PURGED PURGED RATE WATER (standard units) (°C) µmhos/cm (circle units) (NTUs) (describe) (describe)													
00.0	(gallons) (gpm) (feet) units) or (S/cm) % saturation													
0928 N/A N/A N/A N/A 6.52 29.4 13296 3.09 N/A Brown Effleri														
					W.V	1 /								
1			/		00/-	12021	\							
	1				109/2	5/ 200		/						
			//					/						
			1											
											<del>                                     </del>			
WELL CAR	PACITY (Gallon	s Per Foot): (	75" = 0.02°	<b>1"</b> = 0.04;	<b>1.25"</b> = 0.0	6: <b>2</b> " = 0.1	6; <b>3</b> " = 0.37;	<b>4"</b> = 0.65;	<b>5"</b> = 1.02;	<b>6"</b> = 1.47;	<b>12"</b> = 5.88			
	NSIDE DIA. CAI				" = 0.0014;				0.006; 1/2	<b>2"</b> = 0.010;	<b>5/8"</b> = 0.016			
PURGING	EQUIPMENT C	ODES: B	= Bailer; E	<b>BP</b> = Bladder			Submersible P	ump; <b>PP</b> = P	eristaltic Pur	mp; $\mathbf{O} = Ot$	ner (Specify)			
				211101 50/0		LING DA	ATA							
SAMPLED	BY (PRINT) / A	PAPES		SAMPLER(S	) SIGNATURI	[]		SAMPLING INITIATED A	T:892 2	SAMPLING ENDED A	18931			
PUMP OR				TUBING	( )		FIELI	D-FILTERED: Y	(A)	FILTER SI	ZE: μm			
DEPTH IN	WELL (feet):	N/A		MATERIAL (	CODE: N/A	١		tion Equipment Ty			,			
	CONTAMINATION			_	TUBING		eplaced)	DUPLICATE	. Y	Ø				
SAM	PLE CONTAINE	ER SPECIFICA	ATION		SAMPLE PR	RESERVATION	N	INTEND		SAMPLING	SAMPLE PUMP			
SAMPLE	#	MATERIAL	VOLUME	PRESERVA	TIVE	TOTAL VOL	FINAL	ANALYSIS A		EQUIPMENT CODE	FLOW RATE (mL per minute)			
ID CODE	CONTAINERS	CODE	VOLUME	USED	ADDE	D IN FIELD	mL) pH			CODE	(IIIL per IIIIIIule)			
							/							
REMARKS	REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS ORP: 0928 (126-97													
	0(20 (120-11													
MATERIA			Glass; CG =			yethylene;		oylene; S = Silic			ther (Specify)			
SAMPLIN	G EQUIPMENT		APP = After Pe				<ul> <li>Bladder Pump</li> <li>Method (Tubin</li> </ul>	;	tric Submers <b>O</b> = Oth					

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

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

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

# Form FD 9000-24 **GROUNDWATER SAMPLING LOG**

SITE NAME: Southeast County Landfill - Plant LOCATION: Lithia, Florida														
	WELL NO: Field Blank  SAMPLE ID: Field Blank  DATE: 09 (20/2020)													
	1010 - 101				PURC	SING DA	ΓΔ		•			,		
NA (F. 1		TUBING		WEI	L SCREEN			ATIC DE	PTH	PI	JRGE PUMF	TYPE		
WELL	NI/		N			t to N/A ft			R (feet): N/A	0	R BAILER:	N/A		
DIAMETER (	(inches): N/	A DIAMETE	ER (inches):				O WATER	R) X \	WELL CAPACIT					
(only fill out it		1 WELL VOL	UNIE - (TOTA	IL VVLLL DLI	111 017			,						
,			= (	N/A fe			eet) X	N	I/A gal	lons/foot	= N/		gallons	
EQUIPMENT	T VOLUME PU	IRGE: 1 EQUI	PMENT VOL.	= PUMP VOL	.UME + (TUE	BING CAPACI	TY X	TUE	BING LENGTH)	+ FLOW (	CELL VOLU	ME		
(only fill out i								N	1//	NI/Λ	gallons =	Ν/Δ	gallons	
				= N/A	gallons + (	IN/A gallo	ns/foot	X IV	I/A feet) +	14//	TOTAL			
INITIAL PUN	IP OR TUBING			P OR TUBING				/^	ENDED AT:	ΝΙ/Δ				
DEPTH IN V	CUMUI DEPTH THE COND. DISSOLVED OXYGEN													
CUMUL. DEPTH PH TEMP (circle units) OXYGEN TURBIDITY COLOR ODOR														
TIME PURCED PATE WATER (standard (°C) umbos/cm (circle units) (NTUs) (describe) (describe)														
	(gallons)	(gallons)	(gpm)	(feet)	units)	( 0)	or μS		mg/L <u>or</u> % saturation		, ,			
(gallons) (gallons) (gpm) (feet) / OI														
													/	
	Viela													
					1	Blan	<u> </u>		_			-/-		
						0/23	120	2						
						-1/20								
	\ \		/											
			/						/					
				411 0.04	<b>1.25"</b> = 0.	06: <b>2"</b> = 0.	16: 3"	= 0.37;	<b>4"</b> = 0.65;	<b>5"</b> = 1.02	6" = 1.4	7: 12	" = 5.88	
WELL CAP	PACITY (Gallor	ns Per Foot): ( PACITY (Gal./I	0.75" = 0.02; Ft): 1/8" = 0.	1" = 0.04; 0006: 3/16	1.25 - 0. 3" = 0.0014;	1/4" = 0.00	26; <b>5</b> /	<b>16"</b> = 0.0			<b>1/2"</b> = 0.010		<b>"</b> = 0.016	
	EQUIPMENT (			BP = Bladder		ESP = Electric	Submer	sible Pur	mp; <b>PP</b> = P	eristaltic F	Pump; C	) = Othe	r (Specify)	
FORGING	LQOII MLIVI	00020.	Ballett			PLING D								
SAMDLED	BY (DRINT) /	AFFILIATION:		SAMPLER(S	S) SIGNATUI				SAMPLING		SAM	IPLING		
OAWII EED		seples		,	M	N X T			SAMPLING INITIATED A	т: 05/2	3 END	ED AT:	0926	
PUMP OR		SLAIRS		TUBING	111/11/			EIEI D	-FILTERED: Y			ER SIZE	:: μm	
	WELL (feet):	NI/A			CODE: N/	Ά		Filtratio	on Equipment Ty	/pe:				
			4D V (A	3	TUBING	-	replaced)		DUPLICATE	Y	(N)			
	CONTAMINAT										SAMPLIN	IG C	AMPLE PUMP	
SAM	PLE CONTAIN	ER SPECIFICA	ATION			PRESERVATI			INTEND ANALYSIS A		EQUIPME		FLOW RATE	
SAMPLE	#	MATERIAL	VOLUME	PRESERVA		TOTAL VOL		FINAL pH	METHO		CODE		mL per minute)	
ID CODE	CONTAINERS	CODE		USED	ADI	PED IN FIELD	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PII						
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS														
	$\mathbf{R} = \mathbf{R} + $													
MATERIA		AG = Amber		= Clear Glass		olyethylene;			,		ersible Pum		V = 1; = = 1)	
SAMPLIN	IG EQUIPMEN	T CODES:	APP = After P RFPP = Reve	Peristaltic Pum			= Bladde w Method	r Pump; I (Tubing	g Gravity Drain);		Other (Speci			
						ired by Che								

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

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