Smith, George

From: Wiesman, Ronald < WiesmanR@hillsboroughcounty.org>

Sent: Friday, July 15, 2022 6:30 PM **To:** Madden, Melissa; SWD_Waste

Cc: Cope, Ronald; Byer, Kimberly; Ruiz, Larry; O'Neill, Joseph; Spradlin, Kollan

(KSpradlin@scsengineers.com); Curtis, Bob

Subject: WACS ID 41193 - Qtr. 2 2022 Water Balance & Waste Tire Report for Southeast County

Attachments: 2Q2022 Water Balance Report.pdf; 2Q2022 Waste Tire Report.pdf; Waste Tire Storage Area.pdf

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Ms. Madden,

The Quarterly Water Balance and Waste Tire Report for the Southeast County Landfill are attached (WACS ID 41193).

Please advise should you have any questions concerning the information provided.

Ron Wiesman II

Manager

Solid Waste Management Department Public Utilities Department

P: (813) 671-7707 VOIP 42801

M: (813) 455-2194

E: wiesmanr@HCFLGov.net W:http://HCFLGOV.net



Hillsborough County

15960 County Road 672 Lithia, FL 33547

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SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110 813-612-7718

July 15, 2022

Ms. Melissa Madden Solid Waste Section Florida Department of Environmental Protection Southwest District 13051 N. Telecom Pkwy Temple Terrace, Florida 33637 Harry Cohen Ken Hagan Pat Kemp Gwendolyn "Gwen" Myers Kimberly Overman Mariella Smith Stacy R. White

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Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

RE: Waste Tire Facility Quarterly

Report - Permit No. 126787-007-WT/02

Dear Ms. Madden:

In accordance with Rule 62-711, F.A.C. and Permit No 126787-007-WT/02, the Solid Waste Management Department (SWMD) is submitting the Quarterly Report for the Waste Tire Facility for the period April 1, 2022 through June 30, 2022. The SWMD staff compiled the information from the site's daily reports for this Quarterly Report.

Should you have any questions or require additional information concerning this submittal, please contact me at (813) 671-7707.

Sincerely,

Manager Landfill Operations

Solid Waste Management Department

LER/rw Attachments

xc: Ron Cope, EPC

Kimberly Byer, SWMD

WASTE TIRE FACILITY QUARTERLY TONNAGE REPORT SECOND QUARTER 2022

		SECOND QUARTER	Beginning	Tonnage
			(Apr. 1, 2021)	545.97
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS & RR	Tons Adjusted
Apr. 2021	148.86	0.00	187.41	17.35
Beginning Tons	545.97			
	694.83	0.00		0.00
			Ending Tonnage	507.42
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS & RR	Tons Adjusted
May 2021	179.23	39.70	24.27	0.00
Beginning Tons	507.42			
	686.65	-39.70		0.00
			Ending Tonnage	622.68
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS & RR	Tons Adjusted
Jun. 20201	191.96	196.43	124.20	0.00
Beginning Tons	622.68			
	814.64	-196.43	-124.20	0.00
			Ending Tonnage	494.01
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS & RR	Tons Adjusted
Apr. 2021	148.86			17.35
May 2021	179.23	39.70	24.27	0.00
Jun. 2021	191.96		124.20	0.00
Sub-Total	520.05		335.88	17.35
Beginning Tons	545.97			
TOTAL	1,066.02	-236.13	-335.88	
			Ending Tonnage	476.66



Department of Environmental Protection

DEP Form # 62-701.900(21)
Waste Tire Processing Facility
Form Title Quarterly Report
Effective Date 3/22/00
DEP Application No
(Filled in by DEP)

Waste Tire Processing Facility Quarterly Report

Pursuant to Rule 62-711.530, Florida Administrative Code, the owner or operator of a waste tire processing facility shall submit the following information to the Department quarterly.

Quart	er covered b	y this report	4/1/22 thru	6/30/22	(First quarter	begins on Ja	nuary 1	of any	given year)
1. F	acility name	: Hillsboro	ugh County S	Southeast La	ndfill Waste	Tire Facility			
2. F	acility mailir	ng address:	332 N. Falker	nburg Road					
C	City: Tampa	a		County: _	Hillsborough	25	Zip: _	33619	
3. F	acility permi	it number: _1	26787-007-W	/T/02					
4. F	acility teleph	none number	(813 ₎ 671-	7707					
5. A	Authorized pe	erson prepari	ng report: L	arry E. Ruiz					
6. A	Affiliation wit	th facility:	Owner Repr	esentative -	Manager La	ndfill Operation	ons		
7. T	elephone nu	ımber (if diffe	erent from abo	ve): ()				
	Activity: Re				,				
		Beginning Inventory	Received	Processed	Consumed	Removed	Adjust	ments	Ending Inventory
U	sed Tires	545.97	520.05			572.01	17.35		476.66
T	ther whole ires rocessed tires								
W	rocessing /aste								
0	ther								
To	otal	545.97	520.05			572.01	17.35		476.66
a. E	xplain all inv	entory adjust	tments. 17.3	35					
1	7.35 tons of	unprocesse	ed truck tires.						
			ne or more cate ondition relieve		ntory exceede	ed the permitt	ed maxir	mum fo	or that
		s inventory a	at the end of the fraction of	ne quarter, sta	ate how and v	when this con	dition w	ill be re	elieved.
	ertification:							=	
7	To the best of	my knowledge	e and belief, I ce		()	2		curate, a	and complete.
1	arry E. Rui			— <i>Ö</i>	Farry &	thorized Ager		7/15/2	900 8
	Print Name	e of Authoriz	ed Agent	Si	gnature/of Au	thorized Ager	nt		Date

Mail complete form to the appropriate district office



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110 813-612-7718

July 15, 2022

Ms. Melissa Madden Solid Waste Section Florida Department of Environmental Protection Southwest District 13051 N. Telecom Pkwy Temple Terrace, Florida 33637 BOARD OF COUNTY
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Christine M. Beck
INTERNAL AUDITOR

Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

RE: Southeast County Landfill -Leachate Data Quarterly Report

Dear Ms. Madden:

In accordance with Specific Condition No. C.12.d of Permit No. 35435-022-SO/01, the Solid Waste Management Department (SWMD) is submitting the Quarterly Leachate Water Balance summary for the Southeast County Landfill for the quarter ending June 30, 2022. The data is being submitted as separate monthly reports for April, May, and June 2022.

Please advise should you have any questions concerning the attached submittal.

Sincerely,

Larry E. Ruiz

Manager Landfill Operations

Solid Waste Management Department

LER/rw

Attachments

xc: Ron Cope, EPC

Kimberly Byer, SWMD



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

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ASSISTANT COUNTY ADMINISTRATOR

George Cassady

MEMORANDUM

DATE: May 15, 2022

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for April 2022

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2022 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 5.16 inches of rainfall recorded at the Southeast County Landfill (SCLF).

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average of effluent stored in Pond A was 1.5 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the daily average depth of leachate in Pond B was 2.8 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. The average recorded depth of leachate in the PS-B sump was 18.2 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 19.9 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 22.2 inches.

Leachate Pumped to MLPS from Phases I-VI (Column VIII)

Column VIII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 66,899 gallons. A total of 2,006,957 gallons of leachate was pumped this month.

Leachate Pumped from Sections 7-8 LDS (Column IX)

Column IX presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month 804 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column X)

Column X presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VII). This month a total of 151,989 gallons was removed.

Leachate Pumped to LTRF from the MLPS (Column XI)

Column XI presents the total quantity of leachate pumped to the LTRF from Phases I-VI (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 2,158,946 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 129,467 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month 1,525 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank T1 at the LTRF. The amount of leachate stored in T1 is calculated based on the circumference of the tank and the daily level reading. This month an average of 160,033 gallons of leachate was stored in the tank.

Effluent in 575,000-Gallon Tank (Column XV)

Column XV typically presents the daily amount of effluent, in gallons, stored in the 575,000- gallon effluent holding tank T6 at the LTRF. The amount of effluent/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 147,667 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,388,533 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 355,573 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 654,652 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XIX)

Column XIX presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month a total of zero gallons of leachate was used for dust control.

Pond A Storage (Column XX)

Column XX presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column III). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 40,500 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 225,133 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases IV-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 242,565 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

Column XXIV presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was hauled off site.

Total Evaporation (Column XXV)

Column XXV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. Total evaporation estimated for this month was 1,443,700 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 2,290,525 gallons. Total outflow quantity from the LTRF was 2,398,758 gallons. The change in storage for the month decreased by 108,233 gallons. Please advise should you have any questions concerning the information provided.

										TABLE 1. LE	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	FER BALANCI	E REPORT F	ORM										
									SOUTH	EAST COUNT	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	HILLSBOROU	JGH COUNT	Y, FLORIDA										
I	ПП	III IN	IV	Λ	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV	XXV
	Depth	D		p				Leachate	Leachate	Leachate		Leachate	nate	ent	Leachate	Leachate								
				_	_	Depth		_				Pumped from	.E	.В	Treated	Treated		Leachate	Pond	_			Total	
			_				to MLPS	90	_	mo	to LTRF from	Section 9	575K	575K	at	at		_			Irrigation Dus	ত		Total
ć	Rainfall A	e e e	я (PS-B	C0 2-1	MP 2-2 fro	from Phases I-VI	SOT	Sections 7-8	MPLS	Section 9	SCI	Tank	Tank	LEF	LTRF	Hauled	o	Storage	Storage		(p)	Hauled E	Evaporation
Day	3.0	0 1	3.3	0 20	0.00	(III.)	(gai.)		(gai.)	(gar.)	(gai.)	(gar.)	(gar.)	(gar.)	(gar.)	(gal.)	(gal.)	(gar.)	(gar.)	900	(gar.)	(gar.)	(gar.)	(gar.)
- 6	0.30	0.1	2.0	0.02	6.02	24.4	13,113	66	0,4/9	262,61	2,003	0 0	100,000	144,000	000000	200,12	20,000	0	000,70	000,007	0 0000	0	0 0	42,000
7	0.53	1.7	3.2	11.4	22.4	24.4	19,401	0	3,917	8/5'6/	3,838	0	86,000	144,000	49,722	21,695	28,176	0	000,00	765,000	20,/18	0	0	89,700
3	00'0	2.0	3.1	14.1	23.3	24.4	73,632	36	5,593	79,225	3,483	0	95,000	144,000	51,388	21,695	0	0	000,19	254,000	0	0	0	46,200
4	0.00	8.1	3.0	16.8	24.2	24.4	70,734	36	5,593	76,327	3,483	0	103,000	144,000	51,388	21,695	26,878	0	52,000	242,000	0	0	0	46,200
5	0.00	1.6	3.1	18.0	20.7	12.4	67,175	0	3,560	70,735	3,846	0	137,000	144,000	26,482	3,820	26,982	0	44,000	254,000	0	0	0	23,800
9	0.00	1.6	2.2	21.0	24.2	11.6	70,958	40	5,713	76,671	4,229	0	182,000	144,000	38,913	2	26,960	0	44,000	157,000	30,603	0	0	59,500
7	2.50	8.0	2.4	23.4	24.7	20.0	69,392	38	4,389	73,781	3,747	0	194,000	144,000	41,435	2,610	48,238	0	17,000	178,000	0	0	0	37,300
∞	00.00	1.6	3.2	28.6	17.8	19.7	67,423	31	4,997	72,420	3,095	30	180,000	144,000	47,735	15,302	48,186	0	44,000	265,000	0	0	0	43,000
6	00.00	1.8	3.0	16.8	22.1	20.7	59,152	32	5,240	64,392	3,336	0	151,000	149,000	49,348	15,161	28,144	0	52,000	242,000	0	0	0	44,400
10	00.00	2.0	2.9	15.3	23.2	21.6	59,945	81	10,348	70,293	3,017	0	144,000	149,000	49,364	15,161	0	0	000'19	231,000	0	0	0	44,400
П	00.0	2.2	2.8	13.8	24.3	22.5	61,615	18	10,348	71,963	3,017	0	137,000	149,000	49,364	15,161	968'9	0	70,000	221,000	29,075	0	0	67,700
12	00.0	1.7	2.8	20.4	22.8	22.8	63,121	36	3,062	66,183	5,555	0	158,000	149,000	46,475	3,630	7,035	0	48,000	221,000	24,540	0	0	61,500
13	0.00	1.3	2.8	25.2	17.5	23.3	67,353	0	4,663	72,016	3,554	0	180,000	149,000	51,685	9,596	14,075	0	36,000	221,000	25,469	0	0	006'99
14	0.00	8.0	2.8	19.2	15.3	23.4	67,927	40	4,607	72,534	4,843	0	189,000	149,000	48,725	12,640	14,065	0	17,000	221,000	0	0	0	43,900
15	0.00	1.0	3.0	15.6	20.9	23.4	70,681	38	6.258	76,939	6.565	0	185,000	149,000	50,368	12.084	49,258	0	24,000	242,000	0	0	0	45.300
91	00.00	1.1	3.0	15.6	20.5	23.3	67,742	0	3,008	70,750	6,164	0	173,000	149,000	48,952	10,914	0	0	28,000	242,000	0	0	0	44,100
17	0.00	1.3	2.8	17.1	18.9	23.4	70,813	41	5,305	76,117	3,396	-	190,000	149,000	52,419	10,914	0	0	32,000	221,000	0	0	0	47,200
18	00.0	1.4	2.6	18.6	17.2	23.5	618'69	41	5,305	74,624	3,396	-	206,000	149,000	52,419	10,916	33,265	0	36,000	199,000	0	0	0	47,200
61	0.00	1.6	2.6	17.4	16.6	23.2	65,431	0	4,542	69,973	20,689	0	187,000	149,000	49,417	12,108	48,897	0	44,000	199,000	0	0	0	44,500
20	00.00	1.7	2.6	23.4	23.7	22.5	60,748	41	4,683	65,431	288	0	153,000	149,000	46,555	12,856	41,997	0	48,000	199,000	33,123	0	0	68,400
21	00.00	1.1	2.6	17.4	22.9	22.5	60,641	38	3,838	64,479	3,719	2	130,000	149,000	41,045	14,030	37,881	0	28,000	199,000	0	0	0	36,900
22	00.00	1.1	2.4	22.8	16.6	22.7	006'19	0	5,650	67,550	4,797	47	151,000	149,000	46,650	1,144	0	0	28,000	178,000	0	0	0	42,000
23	00.00	1.1	2.6	17.4	20.7	23.1	63,766	53	3,870	67,636	3,133	0	166,000	149,000	50,693	0	0	0	28,000	199,000	0	0	0	45,600
24	00'0	1.3	2.8	17.1	1.61	23.2	905'69	21	5,326	74,831	4,172	0	175,000	149,000	25,334	10,443	0	0	36,000	210,000	14,346	0	0	34,300
25	00'0	1.5	2.9	16.8	17.4	23.3	58,540	21	5,326	63,866	4,172	0	185,000	149,000	25,334	10,443	33,302	0	40,000	231,000	28,691	0	0	45,800
26	0.00	1.0	3.8	18.0	15.6	23.2	72,805	37	3,003	75,808	2,726	0	175,000	149,000	49,140	10,404	20,505	0	24,000	337,000	0	0	0	44,200
27	0.00	1.2	2.7	12.6	17.9	23.4	96,796	0	4,692	71,488	2,730	0	175,000	149,000	52,495	15,042	12,902	0	32,000	210,000	0	0	0	47,200
28	0.00	1.4	2.7	17.4	17.3	23.3	68,087	41	5,558	73,645	4,165	1,444	175,000	149,000	50,555	14,984	19,937	0	36,000	210,000	0	0	0	45,500
29	1.40	1.4	2.6	10.8	15.6	23.4	71,207	36	3,470	74,677	3,855	0	173,000	149,000	43,343	14,714	34,029	0	36,000	199,000	0	0	0	39,000
30	0.63	1.8	3.0	18.0	12.9	23.4	61,319	34	4,649	896'59	2,575	1	158,000	149,000	51,600	14,714	14,151	0	52,000	242,000	0	0	0	46,400
31																								
Total	5.16						2,006,957	804	151,989	2,158,946	129,467	1,525			1,388,533	355,573	654,652	0			242,565	0	0	1,443,700
Daily Average		1.5	2.8	18.2	19.9	22.2	668'99						160,033	147,667	46,284	11,852	21,822		40,500	225,133				48,123
Mo. Average																								
Notes:																								
1. NR = No Re	. NR = No Records, NA = Not Available.	Available.								7.		Column VI is recorded from the pressure liquid level sensor in CO 2-1.	ssure liquid level	l sensor in CO 2-;	-1									
2. Values in bo	Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values	values in italic	c are substitue	te for missing d	ata and are bas	sed on averaged	values.			oć i	. Column VII is re	Column VII is recorded from the pressure liquid level sensor in MP 2-2.	essure liquid leve	el sensor in MP 2.	-2.									
3. Daily averag	 Daily average is calculated by dividing the total by the actual days measured in the month. 	dividing the t	total by the ac	ctual days meas	ared in the mor	nth.				6 -	Columns IX, Se.	Columns IX, Section 7-8 leak detection pumped into Section 7 leachate sumpriser.	tion pumped into	Section 7 leacha	te sump riser.									
4. Monthly aw.	 Montaly average calculated by dividing the total by the number of days of the montal. Column II Trace is less than 0.01 inches and is not included in total. 	y dividing the 101 inches an	rotat by the r	number or days	or me monm.					- =	Columns VIII-X	II XVEXIX and	om deptin in 575	JUOU gal. tanks. antities from flow	meters									
6. Columns III	Columns III and IV, field measured at staff gauges	sured at staff	gauges.							. 11	12. Column XXV in	Columns XIXV includes 80% of the daily values from Columns XIX, XXII - XXIII, plus 90% of Column XVI	daily values from	Columns XIX,	XXII - XXIII, pl	us 90% of Colur	nn XVI.							

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM April 2022 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

T	Effluent Dust Control	(Sprayed)			0							0							0							0								0
S	Effluent	Hauled (gal.)			0							0							0							0								
R	Leachate Dust Control	(Sprayed)			0							0							0							0								
Ò	Leachate	Hauled (gal.)	33,393	28,176	0	26,878	26,982	26,960	48,238	48,186	28,144	0	96£'9	7,035	14,075	14,065	49,258	0	0	33,265	48,897	41,997	37,881	0	0	0	33,302	20,505	12,902	19,937	34,029	14,151		654,652
Ъ	Leachate Treated	at LTRF (gal.)	21,695	21,695	21,695	21,695	3,820	2	2,610	15,302	15,161	15,161	15,161	3,630	9,596	12,640	12,084	10,914	10,914	10,916	12,108	12,856	14,030	1,144	0	10,443	10,443	10,404	15,042	14,984	14,714	14,714		355,573
0	Depth in 575K Tank	Effluent (ft.)	5.00	5.00	5.0	5.00	5.00	5.00	5.00	5.00	5.17	5.2	5.17	5.17	5.17	5.17	5.17	5.17	5.2	5.17	5.17	5.17	5.17	5.17	5.17	5.2	5.17	5.17	5.17	5.17	5.17	5.17		
Z	Depth in 575K Tank	Leachate (ft.)	3.75	3.00	3.3	3.58	4.75	6.33	6.75	6.25	5.25	5.0	4.75	5.50	6.25	6.58	6.42	00.9	9.9	7.17	6.50	5.33	4.50	5.25	5.75	6.1	6.42	80.9	80.9	80.9	00.9	5.50		
M	Effluent Spray	Irrigation (gal.)	0	56,718	0	0	0	30,603	0	0	0	0	29,075	24,540	25,469	0	0	0	0	0	0	33,123	0	0	0	14,346	28,691	0	0	0	0	0		242,565
Τ	Pond A	Depth (ft.)	1.8	2.1	2.0	1.8	1.6	1.6	8.0	1.6	1.8	2.0	2.2	1.7	1.3	8.0	1.0	1.1	1.3	1.4	1.6	1.7	1.1	1.1	1.1	1.3	1.5	1.0	1.2	1.4	1.4	1.8		
K	Pond B	Depth (ft.)	3.2	3.2	3.1	3.0	3.1	2.2	2.4	3.2	3.0	2.9	2.8	2.8	2.8	2.8	3.0	3.0	2.8	2.6	2.6	2.6	2.6	2.4	2.6	2.8	2.9	3.8	2.7	2.7	2.6	3.0		
J	Pond B to	LEF (gal.)	9,087,027	9,136,282	9,187,670	9,239,057	9,265,539	9,304,452	9,345,887	9,393,622	9,442,970	9,492,334	9,541,697	9,588,172	9,639,857	9,688,582	9,738,950	9,787,902	9,840,321	9,892,740	9,942,157	9,988,712	10,029,757	10,076,407	10,127,100	10,152,434	10,177,767	10,226,907	10,279,402	10,329,957	10,373,300	10,424,900		
I	MLPS to	Pond B	6,528,557	6,581,760	6,637,369	6,692,977	6,723,710	6,757,129	6,778,850	6,809,681	6,858,888	6,906,632	6,954,376	7,001,931	7,052,739	7,105,117	7,160,803	7,208,344	7,261,880	7,315,416	7,367,219	7,416,764	7,459,137	7,499,300	7,544,504	7,597,896	7,651,288	7,699,232	7,750,408	7,802,380	7,850,909	7,904,134		1
Н	Sections 7-8	LDS (gal.)	8,292	8,292	8,328	8,364	8,364	8,404	8,442	8,473	8,505	8,523	8,541	8,577	8,577	8,617	8,655	8,655	8,696	8,736	8,736	8,777	8,815	8,815	8,868	8,889	8,909	8,946	8,946	8,987	9,023	9,057		
G	Sections 7-8	Pump (gal.)	6,732,754	6,736,671	6,742,264	6,747,856	6,751,416	6,757,129	6,761,518	6,766,515	6,771,755	6,782,103	6,792,451	6,795,513	6,800,176	6,804,783	6,811,041	6,814,049	6,819,354	6,824,658	6,829,200	6,833,883	6,837,721	6,843,371	6,847,241	6,852,567	6,857,892	6,860,895	6,865,587	6,871,145	6,874,615	6,879,264		
Ŧ	Section 9	LDS (gal.)	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,686	47,686	47,686	47,686	47,686	47,686	47,686	47,686	47,686	47,687	47,687	47,687	47,687	47,689	47,736	47,736	47,736	47,736	47,736	47,736	49,180	49,180	49,181		
Ε	Section 9	Pumps (gal.)	3,173,895	3,177,753	3,181,236	3,184,719	3,188,565	3,192,794	3,196,541	3,199,636	3,202,972	3,205,989	3,209,006	3,214,561	3,218,115	3,222,958	3,229,523	3,235,687	3,239,083	3,242,478	3,263,167	3,263,455	3,267,174	3,271,971	3,275,104	3,279,276	3,283,448	3,286,174	3,288,904	3,293,069	3,296,924	3,299,499		1
D	Reading	PS-B (in.)	25.8	11.4	14.1	16.8	18.0	21.0	23.4	28.6	16.8	15.3	13.8	20.4	25.2	19.2	15.6	15.6	17.1	18.6	17.4	23.4	17.4	22.8	17.4	17.1	16.8	18.0	12.6	17.4	10.8	18.0		
C	Flow Meter	Pump Sta. A (gal.)	31,233,280	31,289,822	31,344,535	31,399,248	31,451,782	31,507,232	31,562,024	31,616,664	31,662,742	31,709,613	31,756,484	31,803,220	31,852,638	31,904,764	31,957,849	32,006,410	32,058,042	32,109,674	32,161,108	32,207,706	32,252,204	32,299,376	32,344,816	32,395,996	32,447,176	32,495,694	32,545,226	32,597,168	32,652,346	32,699,010		
В		Rainfall (in.)	0.30	0.33	0.00	0.00	0.00	Н	\dashv	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	0.63		5.16
A		Dav	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Totals

- NR = No Records, NA = Not Available.

 Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values Columns G and I include quantities from leak detection system.

Tyne of Cover	Phases I-VI	Section /-9
type of cores	acres	acres
Open	5	0
Intermediate	134.4	34.5
Final	23	0
1	c	0

	5
inches.	
Column B, trace is less than 0.01 inches.	,,
B, trace is	
Column	
4.	,

5. Columns C- K, N, and Q-U are quantities from flow meters.

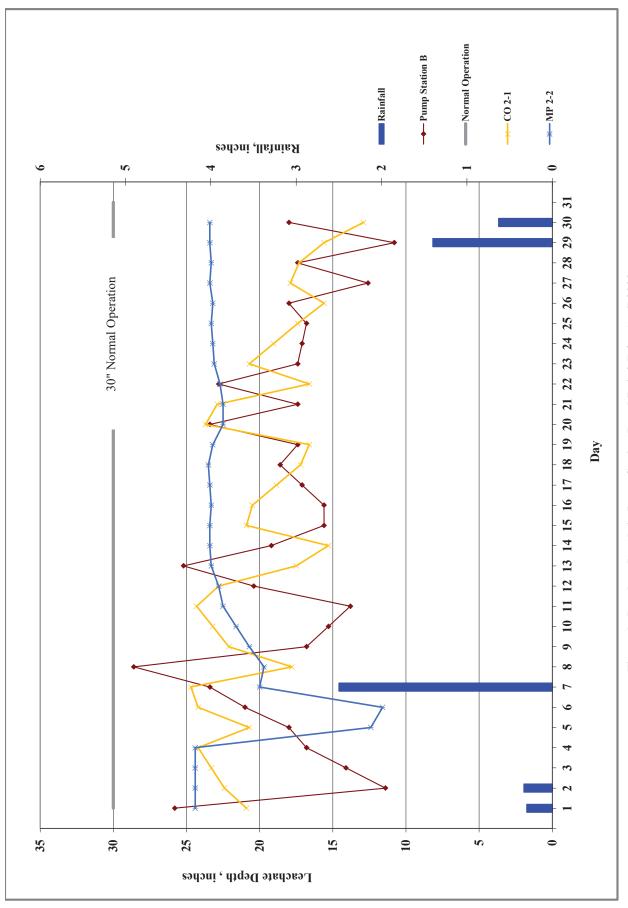


Figure 1. Leachate Levels in Pump Station B and Rainfall for April 2022.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

Rain			Leachate Arr	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	T.	LEF		Effluent Disposal		Inflo	Inflow / Outflow For L
Rair	Conde	Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
	Rainfall from LFG	LFG	from Section 9	from Section 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
	CS-1	S-1	Pumped to LTRF	Pumped to LTRF Pumped to LTRF Pumped to	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
Month (ir	(in.) (gal.)	al.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
January 1.9	1.94	177	267,905	237,637	2,946,654	1,665,014	0	310,423	1,281,386	0	0	327,064	3,452,373	3,256,823
February 0.0	09.0	70	207,603	171,218	2,282,000	1,658,498	0	390,783	1,024,398	0	0	39,931	2,660,891	3,073,679
March 3.0	3.00	272	187,103	184,958	2,360,014	1,305,276	0	573,348	1,108,913	0	0	374,378	2,732,347	2,987,537
April 5.1	5.16	587	130,992	151,989	2,006,957	654,652	0	355,573	1,388,533	0	0	242,565	2,290,525	2,398,758
May										1				
June														
July														
August														
September														
October										1				
November														
December														
YTD Total														

If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
 Change in storage represents total inflow to LTRF minus total outflow from LTRF.



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

BOARD OF COUNTY COMMISSIONERS

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MEMORANDUM

DATE: June 15, 2022

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for May 2022

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2022 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 3.26 inches of rainfall recorded at the Southeast County Landfill (SCLF).

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average of effluent stored in Pond A was 1.7 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the daily average depth of leachate in Pond B was 3.0 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. The average recorded depth of leachate in the PS-B sump was 14.2 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 16.6 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 23.3 inches.

Leachate Pumped to MLPS from Phases I-VI (Column VIII)

Column VIII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 68,111 gallons. A total of 1,965,984 gallons of leachate was pumped this month.

Leachate Pumped from Sections 7-8 LDS (Column IX)

Column IX presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month 781 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column X)

Column X presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VII). This month a total of 145,455 gallons was removed.

Leachate Pumped to LTRF from the MLPS (Column XI)

Column XI presents the total quantity of leachate pumped to the LTRF from Phases I-VI (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 2,111,439 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 118,437 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month 3,102 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank T1 at the LTRF. The amount of leachate stored in T1 is calculated based on the circumference of the tank and the daily level reading. This month an average of 187,903 gallons of leachate was stored in the tank.

Effluent in 575,000-Gallon Tank (Column XV)

Column XV typically presents the daily amount of effluent, in gallons, stored in the 575,000- gallon effluent holding tank T6 at the LTRF. The amount of effluent/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 171,774 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,444,252 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 401,147 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 243,391 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XIX)

Column XIX presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month a total of zero gallons of leachate was used for dust control.

Pond A Storage (Column XX)

Column XX presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column III). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 48,129 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 242,032 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases IV-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 275,271 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

Column XXIV presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was hauled off site.

Total Evaporation (Column XXV)

Column XXV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. Total evaporation estimated for this month was 1,520,000 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 2,233,433 gallons. Total outflow quantity from the LTRF was 2,088,790 gallons. The change in storage for the month increased by 144,643 gallons. Please advise should you have any questions concerning the information provided.

									TABLE 1. L1	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	TER BALANCI	E REPORT F	ORM						Ì				
								SOUTE	IEAST COUN.	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	HILLSBOROU	UGH COUNT	TY, FLORIDA	_									
П	Ш	I IV	Λ	M	IIA	VIII	Х	X	IX	IIX	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXIX	X IIXX	XXIII	XXIV	XXV
	Depth	th Depth	Estimated	1	C the control of the	Leachate	Leachate Dumand from	Leachate	Leachate	Leachate	Leachate]	Leachate	Effluent	Leachate L	Leachate	Total	Locahota	Board	Don'd	D-Musart D-69	Effloat	February	
	Pond	_		E. E	i .s	to MLPS	Sections 7-8	to MLPS from	to LTRF from	8	Section 9	575K	575K			9	Dust Control	W V			75	Effluent	Total
	=		_	CO 2-1	MP 2-2	from Phases I-VI	TDS	Sections 7-8	MPLS	Section 9	TDS	Tank	Tank										Evaporation
Day	(in.) (ft.		(in)	(in)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal) (£	(gal.) (g	(gal.)	(gal.)	(gal.)
1	0.20	2.1	3.0 12.	0 15.9	9 23	.2 66,240	0	4,659	668'02	4,036	0	168,000	149,000	47,700	17,714	0	0	000'59	242,000	33,197	0	0	69,500
2	0.12	1.5	2.9 18.6	.6 15.2		.1 66,466			71,075	3,014	0	180,000	149,000	45,672	14,716	0	0	40,000	231,000	0	0	0	41,100
3	1.62	1.0	3.1 16.2	.2 16.7		.3 63,197	36	4,433	67,630	4,626	2	187,000	149,000	42,960	9,461	0	0	24,000	254,000	14,906	0	0	50,600
4	00.00	9.0	3.2 7.8	.8 18.8	8 23.4	.4 66,967	0	4,524	71,491	3,127	0	211,000	149,000	54,710	9,461	910'9	0	17,000	265,000	0	0	0	49,200
S	00'0	1.0	3.2 15.6	0.71 8.		.3 69,160	40	4,396	73,556	3,929	6	233,000	144,000	48,315	0	0	0	24,000	265,000	0	0	0	43,500
9	00.00	1.3	3.2 12.6	0.91 9.	0 23.5	.5 68,563		5,370	73,933	2,976	1	218,000	187,000	21,545	13,246	14,116	0	36,000	265,000	0	0	0	19,400
7	00.00			.8 17.0		.8 67,468		4,246	71,714	4,666	0	197,000	221,000	45,786	17,913	14,119	0	44,000	265,000	0	0	0	41,200
∞	00.00	1.9	3.3 16.5	5 16.9	23.5	5. 70,579	38	4,486	75,064	3,446	2	174,000	250,000	37,830	17,913	0	0	57,000	265,000	0	0	0	34,000
6	00:00	2.2	3.3 19.1	.1 16.7	7 23.1	.1 66,811		4,486	71,296	3,446	2	151,000	278,000	37,830	17,913	25,315	0	70,000	277,000	32,090	0	0	59,700
10	00.00	1.8	2.9 9.5	.5 16.9	9 22.9	.9 59,475	35	4,461	63,936	2,188	4	125,000	312,000	49,875	19,646	12,650	0	52,000	231,000	0	0	0	44,900
11	0.00		2.8 15.6			.0 60,320		4,517	64,837	4,053	1,470	252,000	168,000	51,755	0	25,580	0	32,000	221,000	0	0	0	46,600
12	0.00		2.8	.4 18.6	5 23.4	.4 67,128	39		71,844	3,280	1	233,000	163,000	53,700	13,794	27,046	0	36,000	221,000	0	0	0	48,300
13	0.00		3.0 15.0	0.81 0.	7 23.4	.4 67,713		4,643	72,356	4,311	7	206,000	158,000	49,523	18,996	39,729	0	48,000	242,000	0	0	0	44.600
14	0.00								04.570	4,251	5	178,000	158,000	53,578	12,962	14,242	0	000'19	231,000	0	0	0	48,200
15	00'0						e		668'69	3,883	5	179,000	161,000	55,087	12,962	0	0	70,000	221.000	0	0	0	49,600
16	0.00								69,320	3,883	v	180,000	163.000	55.087	12,964	14,335	0	79,000		34.135	0	0	76900
17	0:00								68.023	3.656	0	173.000	163.000	45,035	13.358	21.565	0	000:19		21.339	0	C	57,600
18	0.00						4		64.962	2,864	1.189	156,000	156.000	53,996	16,442	0	0	52,000		48,155	0	0	87.100
61	0.00								69,128	5,064	400	146,000	156,000	53,464	13,218	0	0	24,000		0	0	0	48,100
20	0.00								61,585	4,716	0	139,000	158,000	45,994	14,556	0	0	28,000	221,000	0	0	0	41,400
21	0.33	1.4					39		62,136	2,923	1	144,000	158,000	35,659	14,556	0	0	36,000	231,000	0	0	0	32,100
22	00.00					.0 58,383	35	4,823	63,205	4,135	0	152,000	158,000	49,454	14,556	0	0	52,000	231,000	0	0	0	44,500
23	0.42	2.1	2.9	4.21	4 23.2	.2 60,764		4,823	65,587	4,135	0	161,000	158,000	49,454	14,556	0	0	000'59	231,000	0	0	0	44,500
24	0.00		3.0 13.8			.5 62,829			71,604	4,070	0	173,000	158,000	25,949	0	0	0	000'86	242,000	47,267	0	0	61,200
25	0.00					.3 60,339	37	13,262	73,601	4,733	0	185,000	158,000	52,121	0	0	0	36,000	265,000	0	0	0	46,900
26	0.00		3.1 10.2	2 17.5		.1 60,918	0	132	61,050	2,872	0	202,000	158,000	44,855	0	0	0	36,000	254,000	0	0	0	40,400
27	00'0	1.5	3.1 17.4	.4 19.2	2 23.3	.3 65,173	41	4,699	69,872	4,024	0	206,000	158,000	26,690	18,048	0	0	40,000	254,000	0	0	0	51,000
28	0.00	1.9	3.1 10.2	.2 15.9	9 23.5	.5 66,398	37	859'5	72,056	4,415	0	221,000	156,000	53,674	18,048	28,678	0	57,000	254,000	22,857	0	0	009'99
29	00'0	1.7	3.1 19.0	0. 13.4	4 23.4	.4 60,671	0	2,363	63,034	4,051	0	221,000	158,000	45,204	18,048	0	0	48,000	254,000	21,325	0	0	57,700
30	0.57	1.8	3.1 17.9	9 13.7	7 23.0	.0 55,737	37	3,748	59,485	3,833	1	232,000	157,000	40,876	18,048	0	0	52,000	254,000	0	0	0	36,800
31	00'0	1.8	3.1 16.8	.8 14.0	0 23.1	.1 56,945	37	3,748	60,693	3,833	П	242,000	156,000	40,876	18,052	0	0	52,000	254,000	0	0	0	36,800
Total	3.26					1,965,984	781	145,455	2,111,439	118,437	3,102			1,444,252	401,147	243,391	0		2	275,271	0	0	1,520,000
Daily Average		1.7	3.0 14.2	.2 16.6	6 23.3	.3 63,419						187,903	171,774				0	48,129	242,032	8,880	0	0	49,032
Mo. Average																							
Notes:																							
1. NR = No Re	. NR = No Records, NA= Not Available	Available.	,	-					.~ 0	7. Column VI is rec	Column VI is recorded from the pressure liquid level sensor in CO 2-1.	assure liquid leve	sensor in CO 2-	-; ·									
Values in bo. Daily average	is calculated by	fixiding the total	vatues in boto are estimated; vatues in itaite are substitute for missing data and are based on averaged vatues. Daily avensos is calculated by dividing the total by the actual days measured in the month	issing data and a s measured in the	ire based on av	craged values.			- 0		Column v.ii is recorded from the pressure inquita revel sensor in INT 2-2. Columns IX Section 7.8 leak detection minimed into Section 7 leachate summiser.	ressure riquid rev. tion primped into	et sensor in MP 2. Section 7 leacha	2-2. ute sumn riser									
4. Monthly aver	uge calculated by	dividing the tota	Monthly average calculated by dividing the total by the number of days of the month.	of days of the mo	onth.				_		Column XIV and XV, calculated from depth in 575,000 gal. tanks.	om depth in 575,	,000 gal. tanks.										
5. Column II, T	ace is less than 0	.01 inches and is	Column II, Trace is less than 0.01 inches and is not included in total.	otal.					1	11. Columns VIII-X	Columns VIII-XIII, XVI-XIX, and XXII-XXIV, quantities from flow meters.	XXII-XXIV, qu.	antities from flow	v meters.									
6. Columns III a	Columns III and IV, field measured at staff gauges	ured at staff gau	iges.								acludes 80% of the	daily values from	Columns XIX.	XXII - XXIII. plu	s 90% of Column	1AX u							

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM

May 2022
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

	nent ontrol	tyed)		0	0				_	_							_	0	0	0	_	0			_	0		0	_					
Т	Effluent Dust Control	(Sprayed))	0	0	0	0	_	0	0	0	0	0	0	_		_)	0)	0)	0))))	0)		0	0
S	Effluent	Hauled	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Leachate Dust Control	(Sprayed)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Leachate	Hauled	0	0	0	6,016	0	14,116	14,119	0	25,315	12,650	25,580	27,046	39,729	14,242	0	14,335	21,565	0	0	0	0	0	0	0	0	0	0	28,678	0	0	0	243,391
Ь	Leachate Treated	at LTRF	17,714	14,716	9,461	9,461	0	13,246	17,913	17,913	17,913	19,646	0	13,794	18,996	12,962	12,962	12,964	13,358	16,442	13,218	14,556	14,556	14,556	14,556	0	0	0	18,048	18,048	18,048	18,048	18,052	401,147
0	Depth in 575K Tank	Effluent (ff.)	5.17	5.17	5.17	5.17	5.00	6.50	79.7	8.67	29.6	10.83	5.83	5.67	5.50	5.50	5.59	5.67	5.67	5.42	5.42	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.42	5.50	5.46	5.42	
z	Depth in 575K Tank	Leachate (ft.)	5.83	6.25	6.50	7.33	8.08	7.58	6.83	6.04	5.25	4.33	8.75	8.08	7.17	6.17	6.21	6.25	00.9	5.42	5.08	4.83	5.00	5.29	5.58	00.9	6.42	7.00	7.17	79.7	79.7	8.05	8.42	
M	Effluent	Irrigation (gal.)	33,197	0	14,906	0	0	0	0	0	32,090	0	0	0	0	0	0	34,135	21,339	48,155	0	0	0	0	0	47,267	0	0	0	22,857	21,325	0	0	275,271
Г	Pond A	Depth (ft.)	2.1	1.5	1.0	8.0	1.0	1.3	1.6	6.1	2.2	1.8	1.2	1.4	1.7	2.0	2.2	2.4	2.0	1.8	1.0	1.1	1.4	1.8	2.1	2.8	1.3	1.3	1.5	1.9	1.7	1.8	1.8	
Х	Pond B	Depth (ft.)	3.0	2.9	3.1	3.2	3.2	3.2	3.2	3.3	3.3	2.9	2.8	2.8	3.0	2.9	2.9	2.8	2.8	2.8	2.6	2.8	2.9	2.9	2.9	3.0	3.2	3.1	3.1	3.1	3.1	3.1	3.1	
J	Pond B to	LEF (gal.)	10,472,600	10,518,272	10,561,232	10,615,942	10,664,257	10,685,802	10,731,588	10,769,418	10,807,247	10,857,122	10,908,877	10,962,577	11,012,100	11,065,678	11,120,765	11,175,852	11,220,887	11,274,883	11,328,347	11,374,341	11,410,000	11,459,454	11,508,907	11,534,856	11,586,977	11,631,832	11,688,522	11,742,196	11,787,400	11,828,276	11,869,152	
I	MLPS to	Pond B	7.954,598	8,006,590	8,056,033	8,108,328	8,160,037	8,190,072	8,229,436	8,277,836	8,326,236	8,357,526	8,404,866	8,456,460	8,510,966	8,561,774	8,614,849	8,667,924	8,720,742	8,771,740	8,824,216	8,875,098	8,922,712	8,971,432	9,020,152	9,074,546	9,123,472	9,169,330	9,221,536	9,277,324	9,326,264	9,365,127	9,403,990	
Н	Sections 7-8	LDS (gal.)	9,057	9,092	9,128	9,128	9,168	9,206	9,206	9,244	9,282	9,317	9,317	9,356	9,392	9,392	9,429	9,465	9,465	9,505	9,542	9,542	9,581	9,616	9,650	9,650	6,687	6,687	9,728	9,765	9,765	9,802	9,838	
Ð	Sections 7-8	Pump	6,883,923	6,888,532	6,892,965	6,897,489	6,901,885	6,907,255	6,911,501	6,915,987	6,920,472	6,924,933	6,929,450	6,934,166	6,938,809	6,941,780	6,946,254	6,950,727	6,955,020	6,959,218	6,964,751	6,968,631	6,972,690	6,977,513	6,982,335	6,991,110	7,004,372	7,004,504	7,009,203	7,014,861	7,017,224	7,020,972	7,024,719	
F	Section 9	LDS	49,181	49,181	49,183	49,183	49,192	49,193	49,193	49,195	49,196	49,200	50,670	50,671	50,678	50,683	50,688	50,692	50,692	51,881	52,281	52,281	52,282	52,282	52,282	52,282	52,282	52,282	52,282	52,282	52,282	52,283	52,283	
Ε	Section 9	Pumps (gal.)	3,303,535	3,306,549	3,311,175	3,314,302	3,318,231	3,321,207	3,325,873	3,329,319	3,332,765	3,334,953	3,339,006	3,342,286	3,346,597	3,350,848	3,354,731	3,358,614	3,362,270	3,365,134	3,370,198	3,374,914	3,377,837	3,381,972	3,386,106	3,390,176	3,394,909	3,397,781	3,401,805	3,406,220	3,410,271	3,414,104	3,417,936	
D	Reading	PS-B	12.0	18.6	16.2	7.8	15.6	12.6	13.8	16.5	19.1	9.5	15.6	11.4	15.0	12.6	15.0	17.4	10.8	14.4	12.8	12.9	15.6	13.5	11.4	13.8	14.4	10.2	17.4	10.2	19.0	17.9	16.8	
C	Flow Meter	Pump Sta. A	32,749,704	32,801,166	32,849,126	32,900,232	32,951,192	33,002,634	33,052,854	33,106,185	33,159,516	33,205,634	33,250,242	33,300,384	33,351,956	33,399,846	33,449,562	33,499,278	33,548,128	33,595,328	33,643,904	33,689,172	33,733,692	33,778,518	33,823,344	33,871,740	33,917,824	33,963,572	34,011,008	34,061,944	34,108,384	34,149,890	34,191,396	
В		Rainfall (in.)	0.20	0.12	1.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	3.26
A		Dav	-	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	_	24	25	26	27	28	29	30	31	Totals
					_	_		<u> </u>					_	_	_	<u> </u>		_	_	<u> </u>													Ш	

Notes:

- NR = No Records, NA = Not Available.

 Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values Columns G and I include quantities from leak detection system.

Type of Cover	Phases I-VI	Section 7-9
130001001	acres	acres
Open	5	0
Intermediate	134.4	34.5
Final	23	0
Possed to N	U	U

5. Columns C- K, N, and Q-U are quantities from flow meters.

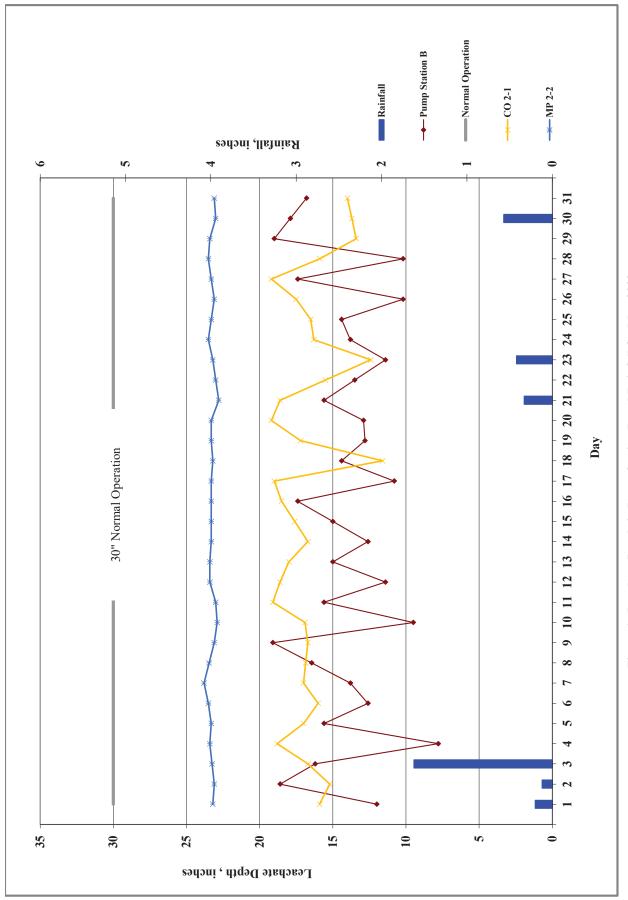


Figure 1. Leachate Levels in Pump Station B and Rainfall for May 2022.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

			Leachate An	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	Æ	LEF		Effluent Disposal		Inflo	Inflow / Outflow For L
		Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
	Rainfall	from LFG	from Section 9	from Section 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
		CS-1	Pumped to LTRF	Pumped to LTRF Pumped to LTRF Pumped to	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
January	1.94	177	267,905	237,637	2,946,654	1,665,014	0	310,423	1,281,386	0	0	327,064	3,452,373	3,256,823
February	09.0	70	207,603	171,218	2,282,000	1,658,498	0	390,783	1,024,398	0	0	39,931	2,660,891	3,073,679
March	3.00	272	187,103	184,958	2,360,014	1,305,276	0	573,348	1,108,913	0	0	374,378	2,732,347	2,987,537
April	5.16	587	130,992	151,989	2,006,957	654,652	0	355,573	1,388,533	0	0	242,565	2,290,525	2,398,758
May	3.26	455	121,539	145,455	1,965,984	243,391	0	401,147	1,444,252	0	0	275,271	2,233,433	2,088,790
June														
July														
August														
September														
October														
November										1				
December														
YTD Total														

If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
 Change in storage represents total inflow to LTRF minus total outflow from LTRF.



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

BOARD OF COUNTY COMMISSIONERS

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ASSISTANT COUNTY ADMINISTRATOR

George Cassady

MEMORANDUM

DATE: July 15, 2022

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for June 2022

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2022 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 6.84 inches of rainfall recorded at the Southeast County Landfill (SCLF).

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average of effluent stored in Pond A was 1.7 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the daily average depth of leachate in Pond B was 2.6 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. The average recorded depth of leachate in the PS-B sump was 15.7 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 16.1 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 23.6 inches.

Leachate Pumped to MLPS from Phases I-VI (Column VIII)

Column VIII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 62,410 gallons. A total of 1,872,286 gallons of leachate was pumped this month.

Leachate Pumped from Sections 7-8 LDS (Column IX)

Column IX presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month 659 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column X)

Column X presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VII). This month a total of 123,341 gallons was removed.

Leachate Pumped to LTRF from the MLPS (Column XI)

Column XI presents the total quantity of leachate pumped to the LTRF from Phases I-VI (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 1,995,627 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 49,164 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month 7 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank T1 at the LTRF. The amount of leachate stored in T1 is calculated based on the circumference of the tank and the daily level reading. This month an average of 291,267 gallons of leachate was stored in the tank.

Effluent in 575,000-Gallon Tank (Column XV)

Column XV typically presents the daily amount of effluent, in gallons, stored in the 575,000- gallon effluent holding tank T6 at the LTRF. The amount of effluent/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 193,667 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,332,130 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 502,013 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 338,274 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XIX)

Column XIX presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month a total of zero gallons of leachate was used for dust control.

Pond A Storage (Column XX)

Column XX presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column III). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 52,127 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 198,700 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases IV-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 195,057 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

Column XXIV presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month zero gallons of effluent was hauled off site.

Total Evaporation (Column XXV)

Column XXV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. Total evaporation estimated for this month was 1,355,000 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 2,049,087 gallons. Total outflow quantity from the LTRF was 2,172,417 gallons. The change in storage for the month decreased by 123,331 gallons. Please advise should you have any questions concerning the information provided.

										TABLE 1. LE	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	TER BALANCE	E REPORT F	PORM										
									SOUTH	EAST COUNT	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	HILLSBOROU	JGH COUNT	IY, FLORID.	_									
I	п	Ш	N	>	VI	IIA	VIII	X	×	IX	IIX	XIII	XIV	XX	XVI	XVII	XVIII	XIX	XX	XXI	XXII	XXIII	XXIV	XXV
				Estimated			Leachate	Leachate	Leachate	Leachate			Leachate	Effluent	Leachate	Leachate								
		.E.	.E	Depth	_	Depth	Pumped	Pumped from		Pumped		Pumped from	.в	.E.	p,	p		Leachate	Pond	Pond			Total	
	Rainfall		Pond	at PS-B	CO 2-1	m MP 2-2	from Phases I-VI	Sections /-8 LDS	Sections 7-8	TO LIKE TROM	Section 9	Section 9	5/5K Tank	5/5K Tank	at LEF	LTRF	Hauled ((Spraved)	Storage	8	irrigation Dust	(Spraved)	Hauled E	Lotal
Day	(ii.)	(fr.)	(fr.)			(in.)	(gal)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)							(gal.)			(gal.)
-	0.22	2.3	2.7	22.8	15.5	23.4	002'69	0	5,459	75,159	3,950	-	281,000	156,000	41,370	210	0	0	74,000	000	0	0	0	37,200
2	2.20	2.2	2.0	24.0	17.1	23.5	62,662	37	4,471	67,133	2,540	1	331,000	161,000	55,670	24,850	0	0	70,000	136,000	0	0	0	50,100
3	0.32	2.8	2.1	26.2	12.8	23.6	68,419	36	4,455	72,874	5,268	1	353,000	158,000	12,580	20,866	0	0	000'86	147,000	0	0	0	11,300
4	00:00	3.1	2.1	19.2	15.6	23.7	61,577	0	3,200	64,777	2,861	0	381,000	158,000	41,111	25,846	14,667	0	113,000	147,000	0	0	0	37,000
S	00'0	3.2	2.1	17.1	14.9	23.5	66,321	61	4,883	71,204	3,959	1	401,000	161,000	53,872	0	0	0	118,000	136,000	0	0	0	48,500
9	00:00	3.2	2.0	15.0	14.1	23.2	64,415	61	4,883	69,297	3,959	I	420,000	163,000	53,872	0	41,758	0	118,000	136,000	30,893	0	0	73,200
7	00'0	1.6	2.5	10.2	17.4	23.1	60,925	39	3,292	64,217	3,933	0	417,000	163,000	17,695	19,520	48,860	0	44,000	188,000	0	0	0	15,900
∞	00:00	2.0	2.2	16.8	17.7	22.9	59,178	51	4,319	63,497	2,306	0	413,000	163,000	37,630	22,962	82,132	0	000,19	157,000	22,028	0	0	51,500
6	0.17	1.1	2.2	12.6	17.8	23.1	61,478	0	4,298	65,776	3,365	1	381,000	163,000	37,515	21,994	75,081	0	28,000	157,000	0	0	0	33,800
10	0.60	1.6	2.1	13.2	17.6	23.3	64,897	0	3,148	68,045	3,360	0	326,000	158,000	53,333	26,938	54,226	0	44,000	147,000	8,777	0	0	55,000
11	1.83	1.9	1.9	17.4	18.6	23.4	59,172	40	4,672	63,844	2,534	0	295,000	158,000	58,700	21,012	14,361	0	57,000	127,000	0	0	0	52,800
12	00:00	1.8	2.0	15.0	17.8	23.1	64,624	33	3,868	68,492	0	0	282,000	192,000	35,961	21,012	0	0	52,000	127,000	0	0	0	32,400
13	0.00	1.6	2.0	12.6	16.9	22.8	64,112	33	3,868	086'29	0	0	269,000	225,000	35,961	21,012	7,189	0	44,000	136,000	0	0	0	32,400
14	00:00	1.5	2.0	16.8	13.7	23.1	60,117	0	4,354	64,471	19	0	252,000	247,000	55,515	18,307	0	0	40,000	136,000	0	0	0	50,000
15	00'0	1.6	3.3	11.4	16.6	23.4	62,213	39	3,323	65,536	107	0	252,000	180,000	6,125	6,928	0	0	44,000	277,000	0	0	0	5,500
91	00.00	1.9	2.8	11.9	18.4	23.2	62,865	0	4,471	67,336	269	0	240,000	214,000	49,661	15,148	0	0	57,000	221,000	51,098	0	0	85,600
17	0.00	1.0	2.5	16.8	17.6	23.4	61,758	40	4,747	66,505	0	0	214,000	252,000	55,574	17,804	0	0	24,000	188,000	0	0	0	50,000
18	00.00	1.3	2.4	18.0	14.8	23.4	64,051	0	3,964	68,015	473	0	245,000	209,000	56,195	19,665	0	0	36,000	178,000	40,186	0	0	82,700
19	0.42	1.6	2.7	15.3	14.0	23.2	64,853	37	4,081	68,934	19	0	239,000	215,000	50,754	19,665	0	0	44,000	210,000	0	0	0	45,700
20	0.00	1.8	3.0	12.6	13.1	22.9	108'19	37	4,081	65,882	19	0	233,000	221,000	50,754	19,667	0	0	52,000	242,000	0	0	0	45,700
21	00.00	1.9	3.0	17.4	15.1	22.9	55,504	0	3,089	58,593	0	1	218,000	235,000	51,372	17,541	0	0	57,000	242,000	0	0	0	46,200
22	0.00	2.2	3.0	16.7	18.7	23.3	96,796	41	4,678	65,474	0	0	206,000	242,000	49,830	21,635	0	0	70,000	242,000	0	0	0	44,800
23	0.00	1.7	3.0	10.7	16.3	23.6	68,539	0	3,418	71,957	803	0	223,000	202,000	56,850	21,122	0	0	48,000	242,000	0	0	0	51,200
24	0.00	1.1	3.0	16.2	16.4	25.0	69,851	42	4,722	74,573	1,700	0	221,000	202,000	54,886	22,298	0	0	28,000	242,000	0	0	0	49,400
25	0.13	1.1	3.2	10.8	16.2	24.7	56,466	0	4,074	60,540	14	1	238,000	202,000	21,262	0	0	0	28,000	265,000	0	0	0	19,100
26	0.45	9.0	3.2	14.1	1.91	24.8	890'19	39	3,902	64,970	1,192	0	258,000	202,000	50,969	0	0	0	000'9	265,000	0	0	0	45,900
27	0.50	0.0	3.2	17.4	15.9	24.9	60,932	39	3,902	64,834	1,192	0	278,000	202,000	50,969	10,845	0	0	800	265,000	0	0	0	45,900
28	0.00	1.0	3.2	14.4	18.5	24.7	59,940	0	4,491	64,431	1,914	0	281,000	202,000	55,470	10,846	0	0	24,000	265,000	0	0	0	49,900
29	00'0	1.3	3.2	13.2	13.9	24.5	56,517	0	2,864	59,381	717	0	295,000	202,000	25,865	15,620	0	0	36,000	265,000	0	0	0	23,300
30	00:00	1.7	3.2	16.2	15.0	24.7	57,535	40	4,366	106,19	2,650	0	295,000	202,000	54,810	17,700	0	0	48,000	265,000	42,075	0	0	83,000
31																								
Total	6.84						1,872,286	629	123,341	1,995,627	49,164	7			1,332,130	502,013	338,274	0			195,057	0	0	1,355,000
Daily Average		1.7	2.6	15.7	1.91	23.6	62,410	22	4,111	66,521	1,639	0	291,267	193,667	44,404	16,734	11,276	0	52,127	198,700	6,502	0	0	45,167
Mo. Average																								
Notes:																								
1. NR = No R	. NR = No Records, NA = Not Available.	Not Available.								7	7. Column VI is rec	Column VI is recorded from the pressure liquid level sensor in CO 2-1.	ssure liquid leve	sl sensor in CO 2	÷.									
2. Values in b	old are estimate	ed; values m n by dividing th	talic are subst	titute for missing	Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values. Daix a sense is calculated by disiding the total boths actual data measured in the month	sed on averag	ged values.			. 0		Column VII is recorded from the pressure liquid level sensor in MP 2-2. Columns IX Section 7.8 leak detection numbered into Section 7 leachests summeriser.	essure liquid lev	/el sensor in MP.	2-2.									
4. Monthly ave	rage calculated	d by dividing t	the total by th	Dairy a verage is calculated by dividing the total by the number of days of the month. Monthly a verage calculated by dividing the total by the number of days of the month.	ys of the month.	onne.				, =		Column XIV and XV, calculated from depth in 575,000 gal. tanks.	om depth in 575	.000 gal. tanks.	ate sump nov									
5. Column II,	Trace is less tha	an 0.01 inche.	s and is not ir.	Column II, Trace is less than 0.01 inches and is not included in total.							11. Columns VIII-XI	Columns VIII-XIII, XVI-XIX, and XXII-XXIV, quantities from flow meters.	XXII-XXIV, qu	antities from flov	v meters.									
6. Columns III	Columns III and IV, field measured at staff gauges	neasured at st.	aff gauges.									cludes 80% of the	daily values fron	n Columns XIX.	XXII - XXIII, plu	s 90% of Column	n XVI.							

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM
June 2022
SOUTHEAST COUNTY, FLORIDA

Τ	Effluent Dust Control	(Sprayed)	(gal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
S	Effluent	Hauled	(gal.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R	Leachate Dust Control	(Sprayed)	(gal.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	Leachate	Hauled	(gal.)	0	0	0	14,667	0	41,758	48,860	82,132	75,081	54,226	14,361	0	7,189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		338,274
Ь	Leachate	at LTRF	(gal.)	21,210	24,850	20,866	25,846	0	0	19,520	22,962	21,994	26,938	21,012	21,012	21,012	18,307	6,928	15,148	17,804	19,665	19,665	19,667	17,541	21,635	21,122	22,298	0	0	10,845	10,846	15,620	17,700		502,013
0	Depth in	Effluent	(ft.)	5.42	5.58	5.50	5.50	5.59	2.67	2.67	2.67	5.67	5.50	5.50	29'9	7.83	85.8	6.25	7.42	8.75	7.25	7.46	19.7	8.17	8.42	7.00	7.00	7.00	2:00	7.00	7.00	7.00	7.00		
z	Depth in	Leachate	(ft.)	9.75	11.50	12.25	13.25	13.92	14.58	14.50	14.33	13.25	11.33	10.25	62.6	9.33	8.75	8.75	8.33	7.42	8.50	8.29	8.08	7.58	7.17	7.75	7.67	8.25	96'8	29.6	9.75	10.25	10.25		
M	Effluent	뇐	(gal.)	0	0	0	0	0	30,893	0	22,028	0	8,777	0	0	0	0	0	51,098	0	40,186	0	0	0	0	0	0	0	0	0	0	0	42,075		195,057
П	Pond A	Depth	(ft.)	2.3	2.2	2.8	3.1	3.2	3.2	1.6	2.0	1.1	1.6	1.9	8·I	1.6	1.5	1.6	1.9	1.0	1.3	9.1	1.8	1.9	2.2	1.7	1.1	1.1	9.0	0.0	1.0	1.3	1.7		
×	Dond B	Depth	(ft.)	2.7	2.0	2.1	2.1	2.1	2.0	2.5	2.2	2.2	2.1	1.9	2.0	2.0	2.0	3.3	2.8	2.5	2.4	2.7	3.0	3.0	3.0	3.0	3.0	3.2	3.2	3.2	3.2	3.2	3.2		
J	Dond B to		(gal.)	11,910,522	11,966,192	11,978,772	12,019,883	12,073,755	12,127,627	12,145,322	12,182,952	12,220,467	12,273,800	12,332,500	12,368,461	12,404,422	12,459,937	12,466,062	12,515,723	12,571,297	12,627,492	12,678,246	12,729,000	12,780,372	12,830,202	12,887,052	12,941,938	12,963,200	13,014,169	13,065,137	13,120,607	13,146,472	13,201,282		_
I	MI PS to	Pond B	(gal.)	9,405,582	9,406,344	9,421,878	9,446,202	9,482,665	9,519,128	9,549,038	9,571,292	9,591,840	9,626,906	9,666,082	9,705,078	9,744,074	9,785,766	9,808,824	9,826,048	9,843,150	9,895,564	9,928,803	9,962,042	50,984	103,061	164,796	224,443	254,117	298,538	342,959	389,516	418,640	458,975		
Н	Sections 7-8	LDS	(gal.)	9,838	9,875	9,911	9,911	9,930	9,948	6,987	38	38	38	78	111	144	144	183	183	223	223	790	297	297	338	338	380	380	419	457	457	457	497		
Ö	Sections 7.8	Pump	(gal.)	7,030,178	7,034,649	7,039,104	7,042,304	7,047,187	7,052,069	7,055,361	7,059,680	7,063,978	7,067,126	7,071,798	7,075,666	7,079,534	7,083,888	7,087,211	7,091,682	7,096,429	7,100,393	7,104,474	7,108,555	7,111,644	7,116,322	7,119,740	7,124,462	7,128,536	7,132,438	7,136,339	7,140,830	7,143,694	7,148,060		
Ħ	Section 0	LDS	(gal.)	52,284	52,285	52,286	52,286	52,287	52,287	52,287	52,287	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,288	52,289	52,289	52,289	52,289	52,290	52,290	52,290	52,290	52,290	52,290		
Э	Section 0	Pumps	(gal.)	3,421,886	3,424,426	3,429,694	3,432,555	3,436,514	3,440,472	3,444,405	3,446,711	3,450,076	3,453,436	3,455,970	3,455,970	3,455,970	3,456,031	3,456,138	3,456,407	3,456,407	3,456,880	3,456,899	3,456,918	3,456,918	3,456,918	3,457,721	3,459,421	3,459,435	3,460,627	3,461,819	3,463,733	3,464,450	3,467,100		
D	Deading	PS-B	(in.)	22.8	24.0	26.2	19.2	17.1	15.0	10.2	16.8	12.6	13.2	17.4	15.0	12.6	16.8	11.4	11.9	16.8	18.0	15.3	12.6	17.4	16.7	10.7	16.2	10.8	14.1	17.4	14.4	13.2	16.2		
C	Flow Meter	Pump Sta. A	(gal.)	34,245,224	34,294,736	34,346,124	34,391,840	34,442,300	34,492,760	34,539,384	34,584,324	34,631,180	34,681,240	34,726,048	34,776,308	34,826,568	34,872,544	34,919,478	34,967,488	35,013,296	35,061,540	35,110,586	35,159,632	35,201,216	35,245,024	35,294,912	35,350,136	35,392,100	35,438,666	35,485,232	35,531,444	35,574,376	35,617,288		
В		Rainfall	(in.)	0.22	2.20	0.32	0.00	0.00	0.00	0.00	0.00	0.17	09.0	1.83	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.13	0.45	0.50	0.00	0.00	0.00		6.84
A			Day	1	2	3	4	2	9	7	8	6	10	11	12	13	14	15	91	17	18	19	20	21	22	23	24	25	56	27	28	56	30	31	Totals

Notes:

- NR = No Records, NA = Not Available.
 Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values Columns G and I include quantities from leak detection system. . 5 : 6

inches
0.01
than
less
12.
trace
B,
Column
4

5. Columns C- K, N, and Q-U are quantities from flow meters.

Type of Cover	Filases I- vi	6-7 HOLLOS
type of core	acres	acres
Open	5	0
Intermediate	134.4	34.5
Final	23	0
Not Opened	0	0

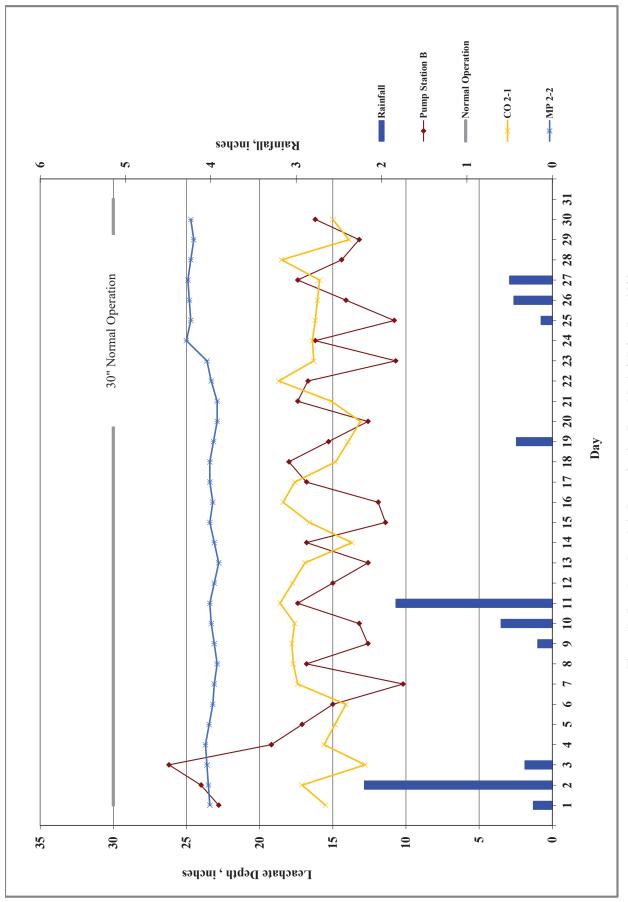


Figure 1. Leachate Levels in Pump Station B and Rainfall for June 2022.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

Rainfall from LFG from Section 7-8 from Phases I-VI CS-1 Pumped to LTRF Pumped				Leachate Arı	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	Æ	LEF		Effluent Disposal		Inflo	Inflow / Outflow For L
Rainfall from LFG from Section 9 from Section 7-8 from PP (in.) CS-1 Pumped to LTRF Pumped to LTRF Pumped to LTRF 1.94 177 267,905 237,637 (gal.)			Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
(in.) (gal.) (ga		Rainfall	from LFG	from Section 9	from Section 7-8		Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
(in.) (gal.) (ga			CS-1	Pumped to LTRF	Pumped to LTRF		from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
1.94 177 267,905 237,637 0.60 70 207,603 171,218 3.00 272 187,103 184,938 5.16 587 130,992 151,989 3.26 455 121,539 145,455 6.84 4,289 49,171 123,341 6.84 4,289 49,171 123,341	Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
0.60 70 207,603 171,218 3.00 272 187,103 184,938 5.16 587 130,992 151,989 3.26 455 121,539 145,455 6.84 4,289 49,171 123,341	January	1.94	177		237,637	2,946,654	1,665,014	0	310,423	1,281,386	0	0	327,064	3,452,373	3,256,823
3.00 272 187,103 184,958 5.16 587 130,992 151,989 3.26 455 121,539 145,455 6.84 4,289 49,171 123,341	February	09.0	70		171,218		1,658,498	0	390,783	1,024,398	0	0	39,931	2,660,891	3,073,679
5.16 587 130,992 151,989 3.26 455 121,539 145,455 6.84 4,289 49,171 123,341 123,341 123,341	March	3.00	272		184,958	2,360,014	1,305,276	0	573,348	1,108,913	0	0	374,378	2,732,347	2,987,537
3.26 455 121,539 145,455 6.84 4,289 49,171 123,341	April	5.16	587		151,989	2,006,957	654,652	0	355,573	1,388,533	0	0	242,565	2,290,525	2,398,758
6.84 4,289 49,171 123,341	May	3.26	455		145,455	1,965,984	243,391	0	401,147	1,444,252	0	0	275,271	2,233,433	2,088,790
July August September October November December	June	6.84	4,289		123,341	1,872,286	338,274	0	502,013	1,332,130	0	0	195,057	2,049,087	2,172,417
August September October November December	July														
September October November December	August														
October November December	September														
November December	October														
December December	November										1				
	December														
YTD Total	YTD Total														

Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.

2. Change in storage represents total inflow to LTRF minus total outflow from LTRF.





Business Name: HC SOUTH EAST LAND FILL

Address: 15960 C R 672 WASTE TIRE SITE LITHIA, FL 33547

Owner/ Manager Name: RON WIESMAN Owner/ Manager Phone: 813-671-7707

Owner/ Manager Email: WiesmanR@HCFLGov.net

INSPECTION INFORMATION

Date of Inspection: 01/11/2022 **Hillsborough County Fire Rescue**

Inspector Name:Stephen Shelton9450 E. Columbus Dr.Phone:(813) 744-5541Tampa, FL 33619

Fax: (813) 744-5794 Survey: https://www.surveymonkey.com/s/FireInspectionSurvey

BUILDING INFORMATION STRUCTUR	RE INFORMATION
Type: Building - Commercial Area:	1000
Style: Detached Type:	Open structure
Status: In normal use Construction:	Not Classified
Commercial Units: 0 Stories Above:	0
Residential Units: 0 Stories Below:	0

USE INFORMATION

Occupancy Load:

Occupancy: 42- Storage

 Property (1):
 N/A

 Property (2):
 N/A

 Mixed:
 N/A

VIOLATION SUMMARY



No Data

IMPORTANT INFORMATION FOR RECIPIENT

You have 10 business days to appeal this Notice of Violation, by sending a letter to the Fire Marshal's Office at 9450 E. Columbus Dr., Tampa, Florida 33619. For information regarding the Administration Appeals Process please contact the Fire Marshal's Office at (813) 744-5541.

Codes are referenced from the Florida Fire Prevention Code and Hillsborough County Ordinance.







INSPECTION RESULTS

1. Fire System Documentation: N/A

2. Fire System Visual Inspection: N/A

3. General Occupancy Inspection: No Violations

01/11/2022 02:44 pm - Stephen Shelton:

No noted discrepancies

Noted that 50 ft. Fire lanes are observed and no vegetation growing in the tire site area







OPEN VIOLATIONS







INSPECTION INFORMATION

Date of Inspection: 01/11/2022 Hillsborough County Fire Rescue

Inspector Name:Stephen Shelton9450 E. Columbus Dr.Phone:(813) 744-5541Tampa, FL 33619

Fax: (813) 744-5794 Survey: https://www.surveymonkey.com/s/FireInspectionSurvey

BILL TO INFORMATION

Bill To Name: Solid Waste Management Division
Bill To Company: Solid Waste Management Division

Bill To Address: 332 N. Falkenburg Rd. Tampa, Fl. 33619

Bill To Phone: 813-671-7707

INSPECTOR SIGNATURE RECIPIENT SIGNATURE

10818

gned by Stephen Shelton

2022 14:44 Signed by Ronald Wiesm

NO signature 19

RE-INSPECTION DATE ON OR AFTER

N/A

IMPORTANT INFORMATION FOR RECIPIENT

ABOVE VIOLATIONS MAY CAUSE FIRE, CONTRIBUTE TO THE SPREAD OF FIRE, OR CAUSE UNDUE INJURY IN THE EVENT OF FIRE. VIOLATIONS MUST BE CORRECTED IMMEDIATELY.

FAILURE TO COMPLY BY REINSPECTION DATE WILL RESULT IN ADDITIONAL FEES AND MAY RESULT IN THE FILING OF CRIMINAL OR CIVIL ACTION

