

MEMORANDUM

TO: Charlie Lynch

Chief Engineer, Wastewater Department

City of Tampa / 2545 Guy N Verger Boulevard / Tampa, Florida 33605

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FROM: James Golden, P.G., Grove Scientific & Engineering Co.

DATE: April 8, 2025

RE: Preliminary Odor Monitoring Results, City of Tampa Howard F. Curren

Wastewater Treatment Plant, 2700 Maritime Blvd. Tampa, FL 33605

This memo presents the preliminary odor study monitoring results from Grove Scientific & Engineering (GSE) April 7, 2025, sampling event within the Howard F. Curren Wastewater Treatment Plant (WWTP) and nearby residential properties. GSE utilized a gas meter Jerome Hydrogen Sulfide (H2S) model J605 analyzer. H2S is a common odorific compound generated by WWTPs. This portable H2S meter is capable of measuring down to 2-3 parts per billion (ppb), or below most human odor detection concentration, which is about 10 ppb. The meter can also measure up to 100 parts per million (ppm) H2S. The monitoring crew on April 7, 2025, was Charlie Lynch, Chief Engineer, Wastewater Department, City of Tampa, Dave Caffery, Sr. Field Tech, GSE, and Braden Costner, Environmental Scientist, GSE.

H2S monitoring was conducted beginning at 7:45 am at six (6) strategic sample points (A-1 thru A-6) at potential odor generating locations within the WWTP, see figure in Attachment 1. GSE's Gas Monitoring Survey Form was used to collect important monitoring information, such as time, air temperature, H2S reading, weather conditions, such as wind direction and speed, and the Field Tech's personal odor detection comments, see Attachment 2 for the monitoring results for the WWTP locations. H2S meter results for locations A-1, A-4,A-5,and A-6 were all 0.00 ppm. However, a "faint to slight" odor was detected by the Tech at A-4 and A-5,

respectively.

At location A-2, along the west central side of the WWTP, H2S readings were elevated, ranging from 0.049 to 0.351 ppm, with a "slight "odor noted. At location A-3, in the southwest corner of the WWTP, H2S readings ranged from 0.010 to 0.026 ppm, with a "faint" odor noted. The odor survey at the WWTP ended at 9:26 am. The measured H2S concentrations at these sample points are far below the health-based concentration limits of 10 ppm under OHSA 8-hour Permissible Exposure Limit worker safety regulation standards, and NIOSH recommended exposure limit.

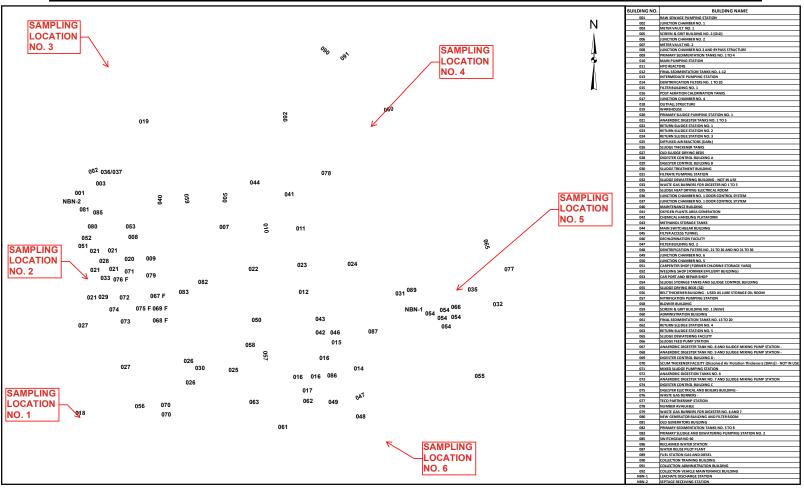
The H2S monitoring survey continued on to the Davis Island residential areas to the west of the WWTP at 10:10 am on April 7, 2025. Six (6) monitoring locations are depicted on the aerial map in Attachment 1. The Gas Monitoring Survey results at these sites are documented on the form in Attachment 2. All H2S readings were 0.000 ppm at the Davis Island locations, and no odors were detected by the Tech.

GSE plans to conduct a subsequent odor survey and sampling at the same locations on April 10, 2025. As indicated in GSE's scope of work, a final report will be provided to the City after gas sample laboratory analysis have been completed.

Attachment 1



Howard F Curren Advanced Wastewater Treatment Plant



Howard F. Curren WWTP - Davis Island Sampling Locations - 04/07/25

by- pue

Tampa General Hospital Marjory Park Marina Little League Field Chesapeake and Chippewa and Channel Bosphorous Dt. 2700 Maritime Blvd Channel Dr. and East Davis Blvd DAVIS ISLAND Airport roundabout at South Davis Blvd. Davis Island Dog Beach

Attachment 2



		GAS MO	ONITORIN	IG SURVEY FORM
Site Name: /	doward F.			Project No.:
Date: 04/0	7/25	Weather:	Partly Cloud	5, 72°F-76°F, Gusty Winds Out 5E/55
Sampler's Nai		u. Care	Sampler's Signature: Quilly	
nstrumentatio		160	25	Sulfide Meter Sun# 60500712
Ambient		Air Temp	H2S	
Location	Time	(deg. F)	(ppm)	Wind/Comments/Odors
A-4	0745	72	1000	Faint Oder, out SE, 3-5 mply
1.	0746		0000	-1
	0747		0.00	
A-5	0805	72	X3.00	Slightodes, Out SE, Z-Tuple
1	0307	,	0.00	
• .	0808		0.00	
	08/0		0.00	
V	0812	V	0.00	
1-6	08/6	72	0.00	No Odor, Out S.E. Z- Yuph
4 0	0817	1	0.00	1
	09 19		0.00	
A-1	0823	72	0.00	No Odor, Out SE, 3-5mph
A	1 2 -1/	10		1700000, Oarse, 3-32, 100
	10829	1312	0.00	
W	9200	70	0:00	1. V
A-5	0830	72	9050	Slight Odor, out SE, 4-7mph
	0832		49.55pb	
	0834		10504	
	0836	77	351	
4 3	00 00	13		21-01-10-10-01
A-5	0918	16	20.79 pp	Frist Oda, OutSSE, 8-12mph
	0920		20,55006	
	0923		10.75ppb	
V	10466	V	26.02 ppb	V
				Gusty winds out SE to SSE.
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	1			
	1			
			Dan ting	able 3.00 readines, if more readings

@ anestionable 3.00 readines, if more readings all 0.00 ppm.

GAS MONITORING SURVEY FORM							
Site Name: Ha	oward F.	Curren	WWTP	Project No. :			
Date: 04/07	125	Weather: Pa	the doude	, Nords dut SE to S			
Sampler's Name	E David	M. Castery		Sampler's Signature: Plucle			
Instrumentation: Jerome bets Hydrogen Sulfide Meter 528.#60500712							
Ambient		Air Temp	H2S	and the state of t			
Location	Time	(deg. F)	(ppm)	Wind/Comments/Odors			
MP Mavina	1010	78	0.00	No Odor, out SSE, 8-12 up h			
	1012	78	0:00	-1			
V.	1014	78	0.00	V			
Ball Field	1018	78	0.00	No Odor. Out 5, 6-10 mpls			
1	1019	78	0.00				
	1021	78	0.00	IV			
Chip. + Channel	1024	78	0.00	No odos, out S. 4-8 unph			
Metr. 4 Commed	1075	78	0.00	1			
- V	1027	78	0.00				
humel + Davis		70	0.00	No Odor, outS, 10-15 mph			
name + pavis	1031	70	0:00	1,000,000,000			
		10	0.00				
P II I CO	1033	70		No Oder, Out 5, 10-15 mph			
Coundabout-Slavis		79	0,00	100000 ON 3, 10-13 mph			
	1038	77	0.00				
V	1039	79	0100	1 0 1 1 1 1 1 1 1 1 1			
hesappole & Bos.	1049	79	0,00	No Odor, Outs, 8-12mph			
	1051	43	0.00				
V	1053	19	0.00				
				Guster winds out SSE to S.,			
				No odors noted on Davis Island.			
		2					