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City of Fort Myers
2200 Second St.
Fort Myers, Florida 33902

Groundwater Monitoring Report

South Street Property
FDEP Facility ID: COM_288039
3348 South Street
Fort Myers, Lee County, Florida 33916

GFA Project No. 17-5281
July 31, 2018

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Our Specialties
Environmental Consulting | Geotechnical Engineering | Construction Materials Testing
Threshold & Special Inspections | Private Provider & Code Compliance

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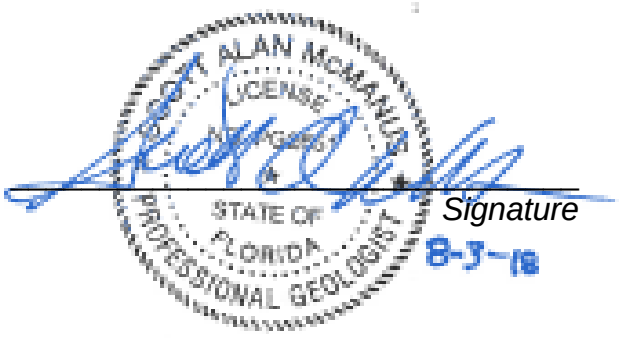
South Street Property
FDEP Facility ID: COM_288039
3348 South Street
Fort Myers, Lee County, Florida 33901

GFA Project No.: 17-5281
July 31, 2018

REPORT PREPARED BY:

I, Scott A. McManus, Professional Geologist #2651, certify that I currently hold an active license in the State of Florida and am competent through education and experience to provide the geologic services contained in this document. I further certify that this document was prepared by me and/or under my responsible charge as a GFA International, Inc. employee, pursuant to Chapter 492, Florida Statutes. Furthermore, I certify that the technical documents complies with standard professional practices and meets the requirements of Chapter 62.780, Florida Administrative Code (FAC) and other applicable laws and rules governing the profession. Additionally, I certify that GFA International, Inc. is licensed by the Department of Professional Regulation, Board of Professional Geologist as a Geology Business, license #GB118.



Signature

Scott A. McManus, P.G.
State of Florida Professional Geologist #2651
Environmental Department Manager

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1.0 INTRODUCTION

GFA International (GFA) is pleased to present this Groundwater Monitoring Report conducted at the South Street Property (site), located at 3348 South Street, Fort Myers, Lee County, Florida 33916. GFA has been engaged by the City of Fort Myers (City) to perform monthly groundwater monitoring of aluminum, arsenic, iron, manganese, molybdenum and total dissolved solids.

1.1 Background

The Site is located in the City block bordered to the north by South Street, to the east by Midway Avenue, to the south by Jeffcott Street and to the west by Henderson Avenue. **Figure 1** is a site location map.

The site was agriculturally developed prior to 1953. Several lots that comprise the site were excavated, likely for borrow pits, prior to 1958. The City of Fort Myers began acquiring lots that had been excavated in 1962 for disposal of lime residual waste generated by the City's water treatment facility. Disposal of lime residual ceased in the late 1960s or early 1970s. The site, including lots not owned by the City, has not been developed.

The presence of arsenic in the lime residual was discovered in 2007. As a result, FDEP requested that potential contamination in groundwater be evaluated. A groundwater quality investigation at the Site was performed in early 2008, which included the installation of six shallow monitor wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6). Concentrations of arsenic were detected in two groundwater samples in concentrations that were slightly above the allowable concentration determined by the Environmental Protection Agency (EPA) for safe drinking water. The allowable limit for arsenic in groundwater is the Primary Drinking Water Standard (PDWS) Maximum Contaminant Level (MCL) of 0.010 milligrams per liter (mg/L).

After discussions with FDEP and FDEP approval of a groundwater monitoring plan, groundwater monitoring began in August of 2010. Sampling was performed twice a year until July 2014. From July 2014 until January 2017, sampling was performed once a year with FDEP approval. Because concentrations of arsenic were below the safe drinking water level since 2012, in January 2017, FDEP issued a letter to the City requesting that sampling be performed every other year.

On February 14, 2018 GFA completed Phase I of the Site Assessment Report (SAR), for soil and groundwater testing activities performed in October, November and December of 2017, which indicated the following: arsenic was the only contaminant of concern identified in the lime residual deposited at the site, exceeding residential soil cleanup target levels (SCTLs) listed in Chapter 62-777, F.A.C, Table II; arsenic was only detected in one of the ten lime residual samples tested by the Synthetic Precipitate Leaching Procedure (SPLP), below the laboratory practical quantitation limit at an estimated concentration of 0.00597 mg/L; groundwater was determined to flow in from southeast to northwest in the immediate site vicinity; and aluminum, arsenic, iron, manganese, molybdenum, total dissolved solids and radium 226, 228 were, identified in monitor wells onsite and/or in the immediate site vicinity, at levels exceeding GCTLs.

GFA has been providing monthly groundwater monitoring reports to the City of Fort Myers for the subject site since April 2018. Groundwater testing for aluminum, arsenic, iron, manganese, molybdenum and total dissolved solids, is scheduled to continue on a monthly basis the subject

site, including gross alpha testing quarterly.

1.2 Quality Assurance

Field work and sample collection activities were conducted in accordance with the FDEP (SOP-001/01) for Field Sample Collection. Sample collection supplies were dedicated to each sample and equipment and tooling used were properly decontaminated between sampling to prevent possible introduction of contaminants into the subsurface during the sampling activities.

2.0 GROUNDWATER MONITORING FIELD WORK

2.1 Groundwater Elevation Data and Hydraulic Gradient

GFA mobilized personnel to the site on July 17, 2018 in order to initiate groundwater sampling activities. On that day GFA recorded depth to groundwater measurements from the top of casings (TOC) for the six on-site and four off-site monitor wells. Groundwater depths were measured to one-hundredth of a foot using a Solonist Water Level Meter, Model 101 probe. Depths to groundwater and groundwater level elevations are included in **Table 1.**

2.2 Groundwater Sampling and Analysis

On July 17, 2018, GFA collected groundwater samples from MW-1R, MW-2, MW-3, MW-5, MW-6, MW-7, MW-8 and MW-10. On July 18, 2018, GFA collected groundwater samples from monitor wells MW-4 and MW-9. Groundwater sampling logs are provided in **Appendix A**. Groundwater was purged from the monitoring wells using a low flow peristaltic pump, until monitoring parameters were within stabilization tolerances prior to sample collection. All groundwater samples were immediately placed in a chest on wet ice and subsequently submitted to a NELAC-accredited laboratory for analysis of the metals aluminum, arsenic, iron, manganese and molybdenum following EPA Method 200.7 and total dissolved solids (TDS) following EPA Method SM.

3.0 GROUNDWATER MONITORING RESULTS

3.1 Groundwater Elevation Data and Direction of Groundwater Flow

Groundwater levels were measured on July 17, 2018. Depths to water and groundwater level elevations are included in Table 1. The interpretation of groundwater elevation data indicated that the shallow groundwater in the immediate vicinity of the Site was moving onto the site from southeast to northwest and moving from the site to the northwest and north, at an average gradient of approximately 0.001, as depicted in **Figure 2**.

3.2 Groundwater Analytical Results

On July 24, 2018 GFA received the laboratory analytical report for the July 2018 groundwater monitoring event, which is provided in **Appendix B**. A summary of the results of analyses for the July 2018 groundwater sampling event are provided in **Table 2.**

Concentrations of arsenic were below the PDWS MCL of 0.010 mg/L in all samples collected, except from groundwater collected from monitor well MW-1R and MW-4, detected at a concentration of 0.0106 mg/L and 0.0187 mg/L, respectively. Arsenic concentrations detected in groundwater since 2008 are presented in **Table 3**. This is the second consecutive monthly exceedance reported for arsenic at monitor well MW-4. Concentrations of arsenic in groundwater at monitor well MW-4 have not exceeded PDWS MCL until June of 2018, since monitoring for arsenic concentrations began at the site in 2008. Monitor well MW-4 is located hydraulically upgradient, at the southwest corner of the site. This is the first exceedance of the PDWS MCL for arsenic concentrations reported in groundwater at replacement monitor well MW-1R. Since monitoring for arsenic concentrations began at the site in 2008, concentrations of arsenic in the groundwater at MW-1 have only exceeded the PDWS MCL in March of 2008 and October of 2012. Monitor well MW-1R is located hydraulically downgradient, at the northwest corner of the site.

Concentrations of aluminum were below the Secondary Drinking Water Standard (SDWS) MCL of 0.2 mg/L. Iron was detected above the SDWS MCL of 0.3 mg/L in samples collected from all monitor wells except MW-9 which was estimated at a concentration of 0.109 I mg/L, below the practical quantitation limit (PQL). The remaining nine samples reported concentrations ranging from 0.410 mg/L at monitor well MW-10 to 16.7 mg/L at monitor well MW-4. Manganese was detected in concentrations above the SDWS MCL of 0.05 mg/L in samples collected from up-gradient monitor well MW-4 (0.0583 mg/L), and down-gradient monitor well MW-6 (0.115 mg/L). Molybdenum, was not detected above the GCTL except in MW-8 (0.0506 mg/l), which slightly exceeded the GCTL of 0.035 mg/L. TDS was detected in concentrations above the SDWS MCL of 500 mg/L in samples collected from all monitor wells, with the exception of MW-3, MW-7, MW-8 and MW-9. Concentrations of TDS ranged from 246 mg/L in the groundwater sample collected from monitor well MW-7 to 1,540 mg/L in the groundwater sample collected from monitor well MW-6.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

GFA has completed this groundwater monitoring report for the City of Fort Myers. The following conclusions are based on the data acquired during the July 2018 groundwater monitoring and previous groundwater monitoring and environmental assessments:

- The elevation of the shallow groundwater table at the site and immediate site vicinity has raised by an average of 0.62-feet since the June 19, 2018 groundwater sampling event;
- Groundwater flows from southeast to northwest and north with an approximate hydraulic gradient of 0.001, which is consistent with historic groundwater data;
- Arsenic was only detected above PDWS MCL in groundwater sample MW-1R and MW-4;

- Monitor well MW-1R is located hydraulically downgradient, at the northwest corner of the site. Monitor well MW-4 is located hydraulically upgradient, at the southwest corner of the site;
- This the third exceedance of arsenic concentration that has been reported in groundwater collected from monitor well MW-1/1R since 2008, and the first exceedance at this location since 2012. This is the second consecutive monthly exceedance of arsenic concentrations reported in groundwater collected from monitor well MW-4;
- The presence of arsenic in up-gradient monitor well MW-4 and down-gradient monitor well MW-1R, located at the west side of the site, as well as the continued declining/low concentrations of arsenic up-gradient and down-gradient at the eastern portion of the site and immediate site vicinity indicate that the occurrence of arsenic in the groundwater at the site and immediate site vicinity is not associated with the lime residual deposited at the site;
- Iron concentrations in groundwater at monitor wells MW-1R and MW-4, currently exhibiting elevated levels of arsenic, were reported to have increased by 100 percent and nearly 800 percent, respectively;
- The data continues to indicate that the presence of arsenic in shallow groundwater detected at the site and immediate site vicinity is attributed to upgradient source(s) that episodically results in short-duration exceedances of the PDWS MCL in samples collected from on-site monitor wells;
- Although the analytical data suggests that the presence of elevated concentration of TDS in samples from some on-site down-gradient monitor wells may be partly associated with the deposition of lime residual at the site, upgradient/background concentrations of the SDWS analytes continue to exceed MCLs, indicating that the natural occurring groundwater within the affected monitoring zone is of “poor quality” as defined in Ch. 62-780.200 (35) F.A.C.

4.2 Recommendations

Based on results of July 2018 groundwater monitoring event, GFA recommends that the City continue groundwater monitoring at the site in general accordance with the requirements for Natural Attenuation Monitoring specified in Chapter 62-780.690(8)(a) F.A.C. through Chapter 62-780.690(8)(d) F.A.C.

FIGURES

Figure 1: Site Location Map
Figure 2: Groundwater Contour Map, June 19, 2018
Figure 3: Arsenic in Groundwater, June 2018

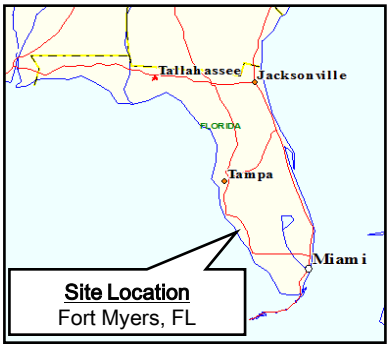

FIGURE 1: SITE LOCATION MAP

South Street Property
3348 South Street Property
Fort Myers, Lee County, Florida

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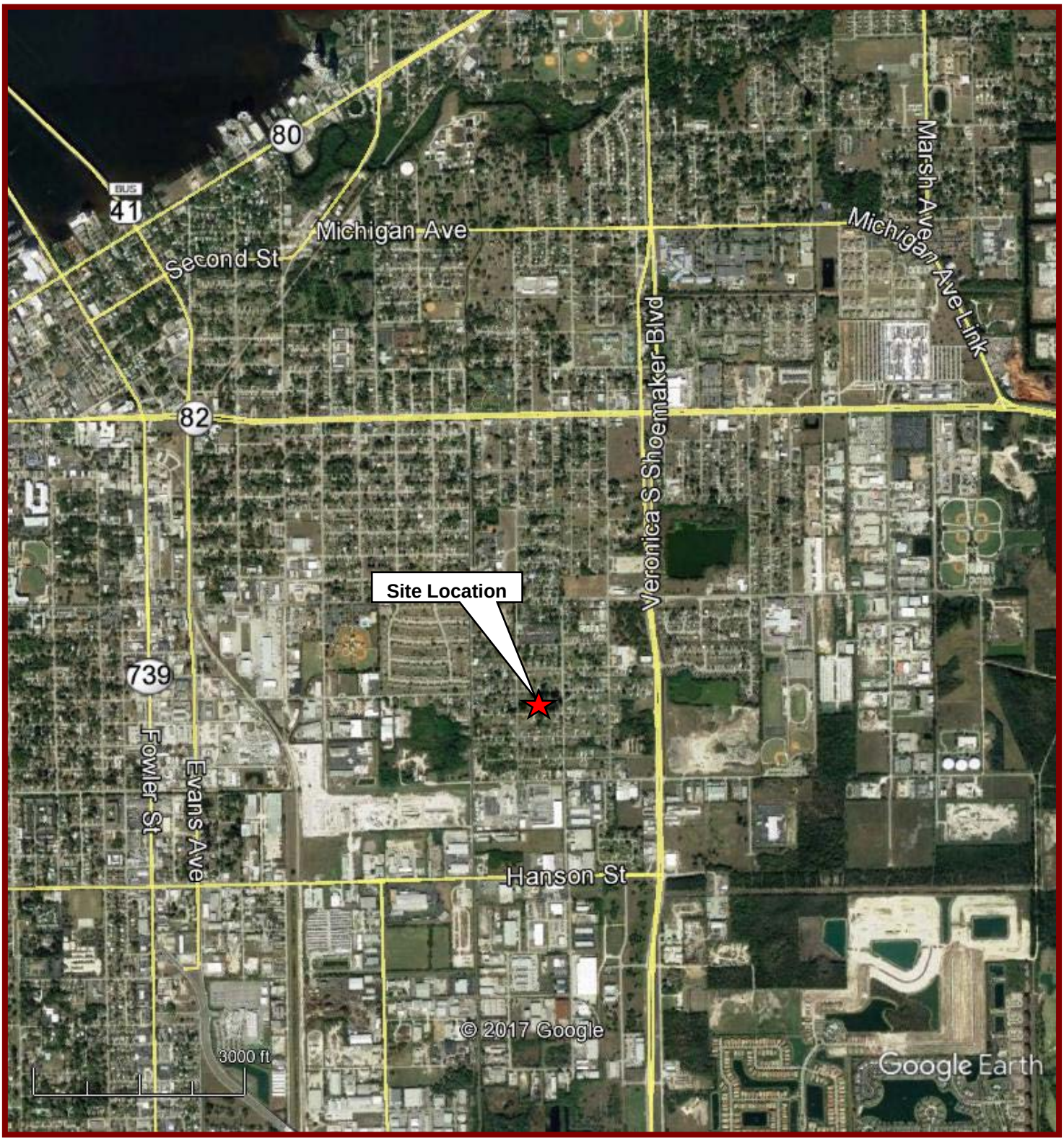

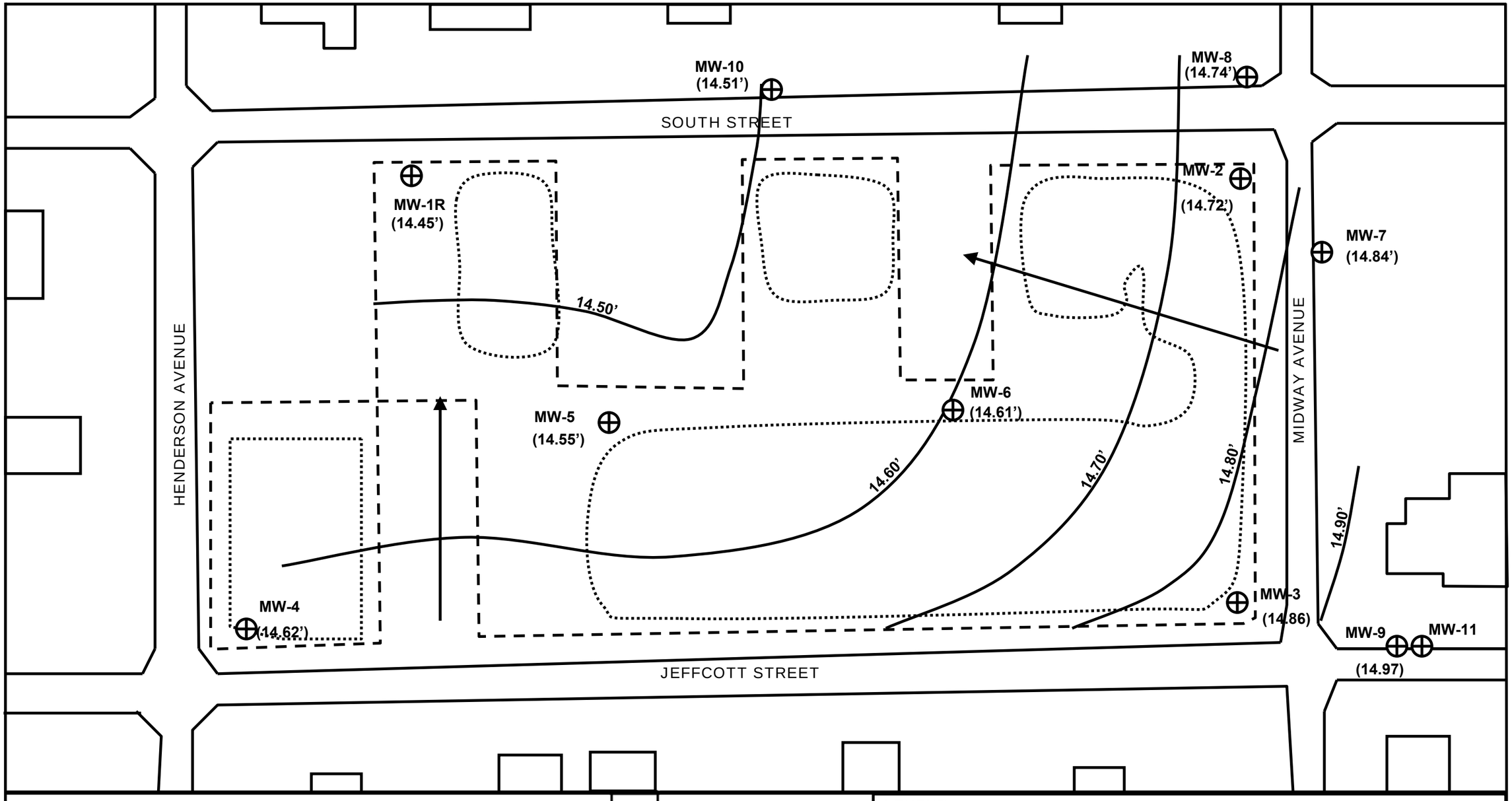

FIGURE 2: Groundwater Contour Map
July 17, 2018

South Street Property
3348 South Street
Fort Myers, Lee County, Florida

N

GFA Project No.: 17-5281
Drawn By: SAM; Date: 7/25/18

Approximate Scale 1"= 60'

LEGEND:

- ⊕ **Monitoring Well Location**
- **MW-6 Monitor Well Identification**
- **(14.61') Groundwater Elevation in NAVD 1988**
- **Approximate City Property Boundary/Fence**
- **Approximate Sludge Disposal Area Based on 1958 Aerial Photograph**
- **Direction of Groundwater Flow**

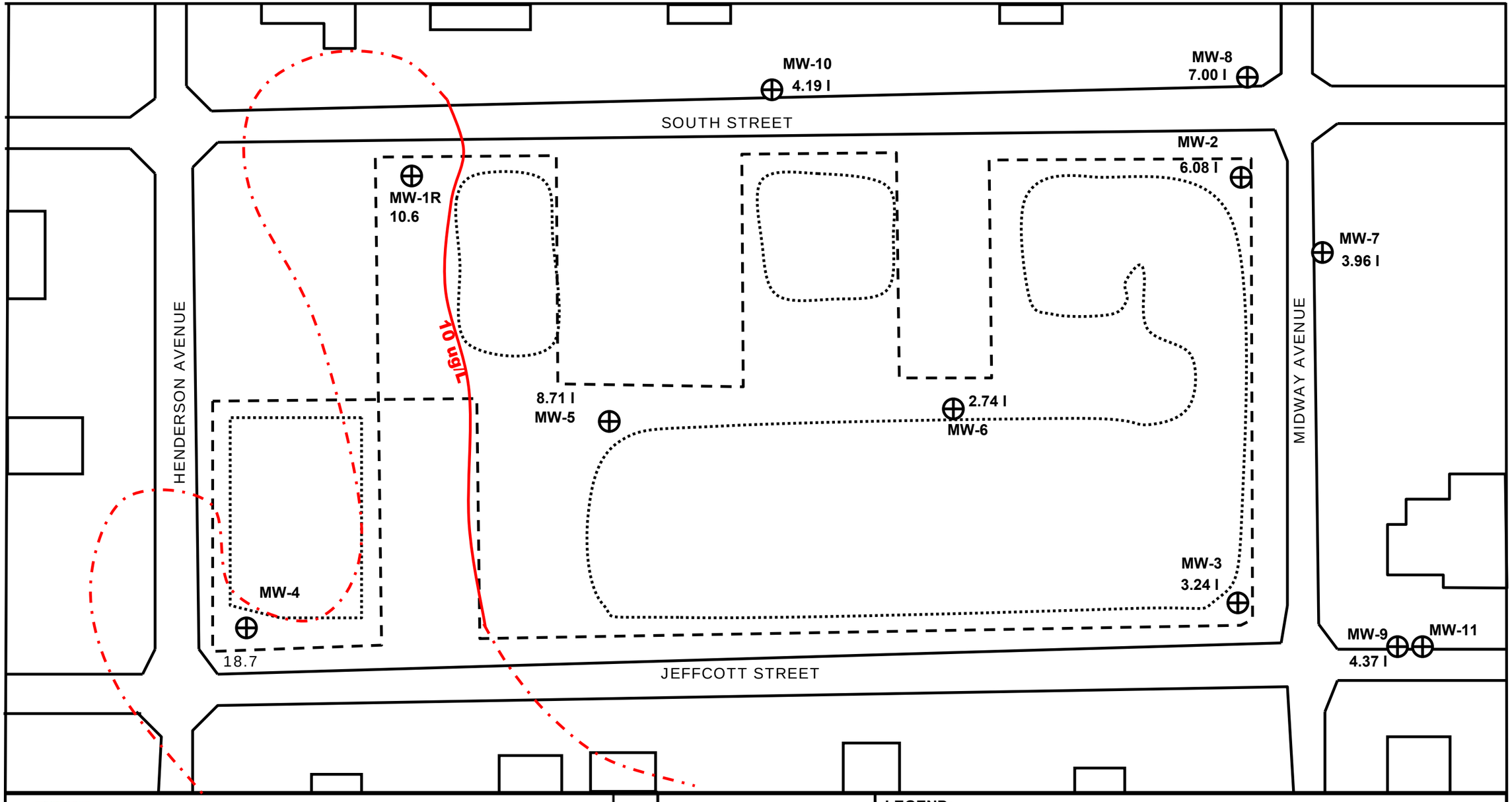

FIGURE 3: Arsenic in Groundwater-July, 2018
South Street Property

3348 South Street
Fort Myers, Lee County, Florida

N

GFA Project No.: 17-5281
Drawn By: SAM; Date: 7/25/2018

Approximate Scale 1"= 60'

LEGEND:

- ⊕ **Monitoring Well Location**
- **-Arsenic concentrations presented in micrograms per liter (ug/L)**
- **Extent of Arsenic in Groundwater Exceeding 10ug/L**
- **Approximate City Property Fence/Boundary**
- **Approximate Sludge Disposal Area Based on 1958 Aerial Photograph**
- **Estimated Extent of Arsenic in Groundwater Exceeding 10ug/L**

TABLES

Table 1: Groundwater Elevation Summary
Table 2: Groundwater Analytical Summary
Table 3: Arsenic in Groundwater

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TABLE 1 - Groundwater Elevation Summary

Project: South Street Property

Project No: 17-5281.02 **COM_288039**

WELL NO.	MW-1R		MW-2		MW-3		MW-4		MW-5		MW-6	
DIAMETER (IN)	2		2		2		2		2		2	
WELL DEPTH (FEET)	12		12		12		12		12		12	
SCREEN INTERVAL (FEET)	2-12		2-12		2-12		2-12		2-12		2-12	
TOC ELEVATION (FEET)	20.02		19.29		19.23		20.17		21.06		20.36	
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
3/24/2008	NA	NA	12.81	6.48	13.09	6.14	12.99	7.18	12.91	8.15	12.99	7.37
8/19/2010	NA	NA	14.37	4.92	14.32	4.91	14.19	5.98	14.22	6.84	14.3	6.06
2/9/2011	NA	NA	13.78	5.51	13.91	5.32	13.75	6.42	13.67	7.39	13.75	6.61
8/26/2011	NA	NA	15.14	4.15	15.33	3.90	15.17	5.00	15.19	5.87	15.21	5.15
2/9/2012	NA	NA	12.75	6.54	12.87	6.36	12.68	7.49	12.68	8.38	12.7	7.66
10/9/2012	NA	NA	15.14	4.15	15.22	4.01	15.92	4.25	14.71	6.35	15.18	5.18
6/26/2014	NA	NA	13.19	6.10	13.23	6.00	13.12	7.05	12.86	8.20	13.65	6.71
9/15/2014	NA	NA	14.53	4.76	14.47	4.76	14.51	5.66	14.46	6.60	14.52	5.84
9/21/2015	NA	NA	15.19	4.10	15.03	4.20	13.57	6.60	14.86	6.20	15.06	5.30
9/30/2016	NA	NA	14.84	4.45	14.88	4.35	14.92	5.25	15.11	5.95	15.06	5.30
10/18/2017	14.01	6.01	14.28	5.01	14.52	4.71	14.23	5.94	14.06	7.00	14.21	6.15
12/4/2017	13.00	7.02	13.15	6.14	13.31	5.92*	13.22	6.95	13.06	8.00	13.08	7.28
4/25/2018	11.09	8.93	11.29	8.00	11.48	7.75	11.35	8.82	11.19	9.87	11.21	9.15
6/19/2018	13.90	6.12	14.06	5.23	14.30	4.93	14.15	6.02	13.92	7.14	14.02	6.34
7/17/2018	14.45	5.57	14.72	4.57	14.86	4.37	14.62	5.55	14.55	6.51	14.61	5.75

WELL NO.	MW-7		MW-8		MW-9		MW-10		MW-11	
DIAMETER (IN)	2		2		2		2		2	
WELL DEPTH (FEET)	12		12		12		12		12	
SCREEN INTERVAL (FEET)	2-12		2-12		2-12		2-12		2-12	
TOC ELEVATION (FEET)	16.18		16.02		16.11		16.01		16.19	
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
12/4/2017	13.20	2.98	13.16	2.86	13.36	2.75	13.03	2.98	--	--
4/26/2018	11.30	4.88	11.24	4.78	11.49	4.62	11.06	4.95	11.49	4.70
6/19/2018	14.12	2.06	14.05	1.97	14.29	1.82	13.88	2.13	--	--
7/17/2018	14.84	1.34	14.74	1.28	14.97	1.14	14.51	1.50	--	--

NOTES:

ELEV = Static groundwater elevation reported in NAVD88

DTW = Measured depth to static groundwater elevation from top of casing (TOC)

All measurements recorded in feet

All DTW measurements reported prior to 10/18/2017 were not performed by GFA.

Historic elevations were detemined based on the assumption that the top of monitor well casings have not changed since oringinal construction.

Elevation vertical datum is the North American Vertical Datum (NAVD) of 1988.

GFA International - Fort Myers, Florida

TABLE 2 - Groundwater Analytical Summary

Project: South Street Property

Project No: 17-5281 **FDEP ID: COM_288039**

					Sample ID	MW-1R					MW-2					MW-3				
					Sample Collection Date	10/18/17	12/4/17	4/25/18	6/20/18	7/17/18	10/23/17	12/5/17	4/25/18	6/19/18	7/17/18	10/23/17	12/5/17	4/26/18	6/19/18	7/17/18
Parameter	**Reporting Units**	**GCTL**	**PDWS MCL**	**SDWS MCL**																
Aluminum	mg/l	0.2	NA	0.2		**0.310**	0.206	0.148 I	0.107 I	0.116I	0.0500U	0.0240U	0.0500 U	0.0500 U	0.0500U	0.0500U	0.0240U	0.0500 U	0.0500 U	0.0500U
Arsenic	mg/l	0.01	0.01	NA		0.00169	0.00148	0.00200 I	0.00836 I	**0.0106**	**0.0506**	**0.0258**	0.00493 I	0.00694 I	0.00608 I	**0.0224**	**0.0138**	0.00396 I	0.00529 I	0.00324I
Iron	mg/l	0.3	NA	0.3		**0.581**	**0.708**	**0.698**	**0.715**	**1.4300**	**4.92**	**4.13**	**2.01**	**2.95**	**2.31**	**2.21**	**2.21**	**1.72**	**0.679**	**1.08**
Manganese	mg/l	0.05	NA	0.05		0.0154	0.0205	0.0224	**0.0564**	0.0236	0.0535	0.0516	0.0482	0.0512	0.0523	0.0382	0.0376	0.0256	0.0343	0.0165
Molybdenum	mg/l	0.035	NA	NA		0.0086	NA	0.0226	**0.0395**	0.0341	0.00303	NA	0.00447 I	0.00923 I	0.00986 I	0.00200	NA	0.00564 I	0.00656 I	0.00592I
Total Dissolved Solids	mg/l	500	NA	500		**1060**	**888**	**978**	**1100**	**962**	**906**	**828**	**544**	**792**	**816**	**604**	**626**	432	452	404
Combined Radium 226, 228	pCi/L	5	5	NA		4.3	NA	**3.3**	NA	N/A	1.7	NA	1.1	NA	N/A	1.8	NA	2.7	NA	NA

					Sample ID	MW-4					MW-5					MW-6				
					Sample Collection Date	10/23/17	12/5/17	4/26/18	6/19/18	7/18/18	10/19/17	12/5/17	4/26/18	6/20/18	7/17/18	10/19/17	12/5/17	4/26/18	6/20/18	7/17/18
Parameter	**Reporting Units**	**GCTL**	**PDWS MCL**	**SDWS MCL**																
Aluminum	mg/l	0.2	NA	0.2		0.0500U	0.0482I	**0.544**	**0.395**	0.145I	0.0500U	0.0240U	0.0500 U	0.0500 U	0.0500 U	0.0500U	0.0240U	0.0500 U	0.0992 I	0.0500 U
Arsenic	mg/l	0.01	0.01	NA		0.00620	0.00506	0.00185 U	**0.0148**	**0.0187**	**0.0138**	**0.0312**	0.00605 I	0.00449 I	0.00871 I	0.00508	0.00426	0.00185 U	0.00274 I	0.00274 I
Iron	mg/l	0.3	NA	0.3		**5.97**	**5.97**	**2.3**	**2.3**	**16.7**	**1.15**	**2.32**	**1.97**	**1.52**	**1.64**	**1.21**	**1.21**	**1.03**	**1.98**	**2.18**
Manganese	mg/l	0.05	NA	0.05		0.0273	0.0275	0.0143	0.0143	**0.0583**	0.0278	0.0461	0.0506	0.0307	0.0299	**0.223**	**0.0849**	**0.0737**	**0.0991**	**0.115**
Molybdenum	mg/l	0.035	NA	NA		0.00707	NA	0.00839 I	0.00839 I	0.0225	0.00591	NA	0.00960 I	0.00762 I	0.00846 I	0.0241	NA	0.00796 I	0.00959 I	0.0120 I
Total Dissolved Solids	mg/l	500	NA	500		**1240**	**1060**	**506**	**1200**	**1170**	**746**	**700**	**750**	**724**	**758**	**1490**	**1160**	**1030**	**1580**	**1540**
Combined Radium 226, 228	pCi/L	5	5	NA		4.7	NA	4.3	NA	N/A	1.5	NA	2.3	NA	N/A	**6.3**	NA	**6.7**	NA	NA

					Sample ID	MW-7				MW-8				MW-9				MW-10			
					Sample Collection Date	12/4/17	4/25/18	6/19/18	7/17/18	12/4/17	4/25/18	6/19/18	7/17/18	12/7/17	4/25/18	6/19/18	7/18/18	12/4/17	4/25/18	6/19/18	7/17/18
Parameter	**Reporting Units**	**GCTL**	**PDWS MCL**	**SDWS MCL**																	
Aluminum	mg/l	0.2	NA	0.2		NA	**0.333**	0.121 I	0.0500 U	NA	**0.267**	0.0985 I	0.0635I	NA	**0.329**	**2.54**	0.0762I	NA	0.173 I	0.0824 I	0.0730 I
Arsenic	mg/l	0.01	0.01	NA		**0.0194**	**0.0131**	0.00800 I	0.00396 I	**0.0137**	0.00561 I	0.00634 I	0.00700I	0.00884	0.00572 I	0.00377 I	0.0047 I	**0.0355**	**0.0128**	0.00301 I	0.00419I
Iron	mg/l	0.3	NA	0.3		NA	**8.22**	**0.493**	**0.843**	NA	**1.33**	**0.388**	**0.755**	NA	**1.96**	**0.808**	0.109 I	NA	**1.21**	**1.00**	**0.410**
Manganese	mg/l	0.05	NA	0.05		NA	**0.123**	0.00565	0.0432	NA	0.0127	0.00337 I	0.00183I	NA	**0.0128**	0.00107 I	0.00757	NA	0.0182	0.00386 I	0.00373I
Molybdenum	mg/l	0.035	NA	NA		0.0236	0.00762 I	0.0657	0.00633 I	**0.0478**	0.00600 I	**0.0687**	**0.0506**	0.0246	0.0172	0.0236	0.00799I	**0.0897**	**0.0718**	0.00714 I	0.0112I
Total Dissolved Solids	mg/l	500	NA	500		**574**	**604**	216	246	**514**	492	474	470	482	446	270	260	**668**	**590**	**688**	**718**
Combined Radium 226, 228	pCi/L	5	5	NA		NA	**3**	NA	NA	NA	2.2	NA	NA	NA	3.9	NA	NA	NA	2.8	NA	NA

Notes:
mg/l - milligrams per liter
NA - not applicable or not analyzed
I - The reported estimated value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Indicates that the compound was analyzed for but not detected.
GCTL - Groundwater Cleanup Target Level (Chapter 62-777 F.A.C.)
PDWS MCL - Primary Drinking Water Standard Maximum Contaminant Level (Chapter 62-550 F.A.C.)
SDWS MCL - Secondary Drinking Water Standard Maximum Contaminant Level (Chapter 62-550 F.A.C.)
{BOLDED CONCENTRATION} exceeds SDWS MCL.
{BOLDED YELLOW HIGHLIGHTED RESULT} exceeds PDWS MCL.

GFA International-Fort Myers, Florida — **Table 3 - Arsenic in Groundwater Summary**

	Project:	**South Street Property**
	Project No:	**17-5281** — **FDEP FID:** COM_288039

Date Sampled	Arsenic (mg/L)									
	MW-1/1R	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
3/24/2008	**0.012 I**	0.0048 U	**0.013 I**	0.010 I	0.010 I	0.005 I	NA	NA	NA	NA
	0.0177	NA	**0.018**	NA	NA	NA	NA	NA	NA	NA
8/19/2010	0.0082	**0.0069**	0.0048	0.0041	0.0067	0.0046	NA	NA	NA	NA
2/9/2011	0.0099	**0.012**	0.0027	0.0026 U	0.0044	0.0026 U	NA	NA	NA	NA
8/26/2011	0.009	0.0061	0.0026 U	0.0026 U	0.0054	0.004	NA	NA	NA	NA
2/9/2012	0.0026 U	0.0048 I	0.0026 U	0.0026 U	0.0038 I	0.0044 I	NA	NA	NA	NA
10/9/2012	**0.0157**	**0.0226**	0.0050 U	0.0050 U	**0.0112**	0.0062 I	NA	NA	NA	NA
12/8/2013	0.0011	0.0047	0.0037	0.0014	0.0095	0.0014	NA	NA	NA	NA
7/10/2014	0.0021	0.0023	0.0034	0.0014	0.0024	0.0013	NA	NA	NA	NA
9/15/2014	0.00097 I	0.0029	0.0017	0.0010	0.0034	0.0020	NA	NA	NA	NA
9/21/2015	0.0014	0.0060	0.0023	0.0011	0.0061	0.0084	NA	NA	NA	NA
9/30/2016	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	NA	NA	NA
10/18/2017	0.00169	NA	N	NA	NA	NA	NA	NA	NA	NA
10/19/2017	NA	NA	N	NA	**0.0122**	0.00508	NA	NA	NA	NA
10/23/2017	NA	**0.0534**	**0.0213**	0.00620	NA	NA	NA	NA	NA	NA
12/4/2017	0.00148	NA	NA	NA	NA	NA	**0.0194**	**0.0137**	NA	**0.0355**
12/5/2017	NA	**0.0258**	**0.0138**	**0.00506**	**0.0312**	**0.00426**	NA	NA	NA	NA
12/7/2017	NA	NA	NA	NA	NA	NA	NA	NA	0.00884	NA
4/25/2018	0.00200 I	0.00493 I	NA	NA	NA	NA	**0.0131**	0.00561 I	0.00572 I	**0.0128**
4/26/2018	NA	NA	0.00396 I	0.00185 U	**0.00605 I**	0.00185 U	NA	NA	NA	NA
6/19/2018	NA	0.00694 I	0.00529 I	**0.0148**	NA	NA	0.00800 I	0.00634 I	0.00377 I	0.00301 I
6/20/2018	0.00836 I	NA	NA	NA	0.00449 I	0.00274 I	NA	NA	NA	NA
7/17/2018	**0.0106**	0.00608 I	0.00324 I	NA	0.00871 I	0.00274 I	0.00396 I	0.00700 I	NA	0.00419 I
7/18/2018	NA	NA	NA	**0.0187**	NA	NA	NA	NA	0.00473I	NA

Notes:

- "U" flag indicates concentration was below the method detection limit (MDL).
- "I" flag indicates concentration was between the MDL and practical quantitation limit (PQL).
- NA denotes not applicable/not analyzed.
- Concentrations reported in milligrams per liter (mg/L)
- {BOLDED CONCENTRATION} exceeds primary drinking water maximum contaminant level (MCL)..

APPENDIX-A

Groundwater Sampling Logs

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South St. Property	SITE LOCATION: Fort Myers, FL.
WELL NO: 1	SAMPLE ID: MW-1R
	DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.57	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 5.57 feet) X 0.16 gallons/foot = ~~1.78~~ 1.51 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.25	PURGING INITIATED AT: 11:35	PURGING ENDED AT: 11:53	TOTAL VOLUME PURGED (gallons): 2.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:47	1.56	1.56	0.13	5.69	7.10	26.5	1560	0.13	2.63	Clear Light Yellow	N/A
11:50	0.24	1.80	0.08	5.70	7.10	26.5	1556	0.08	3.36	C	↓
11:53	0.24	2.04	0.08	5.70	7.10	26.7	1567	0.05	3.27	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus/GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:56	SAMPLING ENDED AT: 12:01
PUMP OR TUBING DEPTH IN WELL (feet): 7.25	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-1R	1	PE	250mL	HNO_3	–	–	200.7	APP	290
MW-1R	1	PE	1L	NONE	–	–	TDS	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South St. Property		SITE LOCATION: 3348 South St., Ft. Myers, FL	
WELL NO: MW-2	SAMPLE ID: MW-2		DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.63	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 4.63 feet) X 0.16 gallons/foot = 1.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 13:30	PURGING ENDED AT: 1349	TOTAL VOLUME PURGED (gallons): 2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:43	1.68	1.68	0.13	5.02	6.98	26.8	1430	0.06	0.95	clear	N/A
13:46	0.24	1.98	0.08	5.85	6.99	27.3	1407	0.9	0.89	clear	N/A
13:49	0.24	2.17	0.08	4.85	7.00	27.1	1397	0.08	0.82	clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GEA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:52	SAMPLING ENDED AT: 13:57
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-2	1	PE	250 mL	HNO_3	—	—	200.7	APP	200
MW-2	1	PE	1L	none	—	—	TDS	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South Street property	SITE LOCATION: 3318 S. Street Property, Ft. Myers, FL
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.43	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 4.43 feet) X 0.16 gallons/foot = 1.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 14:47	PURGING ENDED AT: 15:06	TOTAL VOLUME PURGED (gallons): 2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:00	1.69	1.69	0.13	4.71	5.92	27.1	690	0.08	1.22	Clear	N/A
15:03	0.24	1.93	0.08	4.67	6.92	27.1	685	0.08	1.25	clear	N/A
15:06	0.24	2.17	0.08	4.67	6.92	27.2	688	0.08	1.03	Clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:09	SAMPLING ENDED AT: 15:14
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-3	1	PE	250 mL	HNO_3	—	—	200.7	APP	280
MW-3	1	PE	1L	none	—	—	TDS	〃	〃

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South Street Property	SITE LOCATION: 3348 South Street Property Ft. Myers, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 7/18/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.61	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (15 feet – 5.61 feet) X 0.16 gallons/foot = 1.50 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.3	7.3	10:00	11:19	6.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:12	1.56	1.56	0.13	5.73	6.73	27.0	1759	0.08	169	Cloudy	N/A
10:17	0.4	1.96	0.08	5.73	6.73	27.0	1763	0.08	136	Cloudy	N/A
10:23	0.4	2.36	0.08	5.73	6.74	27.1	1770	0.09	80.8	Cloudy	N/A
10:28	0.4	2.76	0.08	5.73	6.74	27.0	1763	0.07	59.8	Cloudy	N/A
10:38	0.8	3.56	0.08	5.73	6.75	27.1	1760	0.08	36.6	Cloudy	N/A
10:46	0.64	4.2	0.08	5.73	6.75	27.3	1755	0.09	23.1	clear	N/A
10:49	0.24	4.44	0.08	5.73	6.75	27.4	1744	0.11	111.0	Cloudy	N/A
11:05	1.28	5.72	0.08	5.73	6.75	27.3	1762	0.10	22.8	Clear	N/A
11:08	0.24	5.96	0.08	5.73	6.75	27.3	1761	0.11	15.6	clear	N/A
11:11	0.24	6.20	0.08	5.73	6.76	27.1	1760	0.10	13.4	Clear	N/A
11:14	0.24	6.44	0.08	5.73	6.76	27.1	1758	0.10	10.3	clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:17	SAMPLING ENDED AT: 11:23
PUMP OR TUBING DEPTH IN WELL (feet): 7.3	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4	1	PE	250 mL	HNO_3	—	—	200.7	APP	280
MW-4	1	PE	1 L	none	—	—	TDS	↳	↓

REMARKS: Monitor Well Clogged with approx 4in Dia Root Knot Ball.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

* Tube Clogged with 'Stringy' Roots, Spike in Turbity...

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South St. Property	SITE LOCATION: Fort Myers, FL	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 6.53	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 6.53 feet) X 0.16 gallons/foot = 1.35 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.75	PURGING INITIATED AT: 10:55	PURGING ENDED AT: 11:13	TOTAL VOLUME PURGED (gallons): 2.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:07	1.56	1.56	0.13	6.85	6.87	26.3	1275	0.15	1.61	Clear	N/A
11:10	0.24	1.80	0.08	6.86	6.87	26.3	1275	0.11	1.30	Clear	"
11:13	0.24	2.04	0.08	6.86	6.87	26.1	1271	0.08	1.20	Clear	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:16	SAMPLING ENDED AT: 11:21
PUMP OR TUBING DEPTH IN WELL (feet): 7.75	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5	1	PE	250mL	HNO_3	—	—	200.7	APP	280
MW-5	1	PE	1 L	None	—	—	TDS	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South St. Property	SITE LOCATION: Fort Myers, FL.	
WELL NO: 6	SAMPLE ID: MW-6	DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 5.75	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (15 feet – 5.75 feet) X 0.16 gallons/foot = 1.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1013	PURGING ENDED AT: 10:31	TOTAL VOLUME PURGED (gallons): 2.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1025	1.56	1.56	0.13	5.86	6.86	25.4	2429	0.09	1.24	Pale Yellow	N/A
1028	0.24	1.80	0.08	5.86	6.86	25.4	2424	0.09	1.04	Clear	N/A
1031	0.24	2.04	0.08	5.86	6.86	25.4	2414	0.08	0.97	Clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1033	SAMPLING ENDED AT: 10:38
PUMP OR TUBING DEPTH IN WELL (feet): 7.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6	1	PE	250 mL	HNO3	-	-	200.7	APP	200 mL/min
MW-6	1	PE	1 L	None	-	-	TDS	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	South St. Property	SITE LOCATION:	3348 South St. Ft. Myers, FL		
WELL NO:	MW-7	SAMPLE ID:	MW-7	DATE:	7/17/18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	2 feet to 12 feet	1.43	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 1.43 feet) X 0.16 gallons/foot = 1.69 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.0	7.0	14:07	14:26	2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:20	1.69	1.69	0.13	1.50	6.83	29.4	431.6	0.7	7.89	Clear	N/A
14:23	0.24	1.93	0.08	1.50	6.83	29.2	431.7	0.11	8.88	Clear	N/A
14:26	0.24	2.17	0.08	1.50	6.85	29.4	431.8	0.12	8.76	Clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Scott McManus / GFA		14:29	14:34

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7.0	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-7	1	PE	250 mL	HNO_3	—	—	200.7	APP	280
MW-7	1	PE	1L	none	—	—	TDS	↓	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	~~MW-8~~ South Street Property	SITE LOCATION:	3348 So Street property Ft. Myers
WELL NO:	MW-8	SAMPLE ID:	MW-8
		DATE:	7/17/18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4	2 feet to 12 feet	1.33	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 1.33 feet) X 0.16 gallons/foot = 1.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	12:51	13:14	2.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:05	1.82	1.82	0.13	1.40	6.69	30.6	724	0.16	4.65	clear	N/A
13:08	0.24	2.06	0.08	1.40	6.69	30.4	722	0.15	4.37	clear	N/A
13:11	0.24	2.30	0.08	1.40	6.69	30.4	721	0.12	5.13	clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: B = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Scott McManus / GFA		13:14	13:19

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7	PE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8	1	PE	250 mL	HNO3	—	—	200.7	APP	280
MW-8	1	PE	1 L	none	—	—	TDS	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South street property	SITE LOCATION: 3348 South Street Fort Myers, FL		
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 7/18/18	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 1.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 1.20 feet) X 0.16 gallons/foot = 1.73 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	PURGING INITIATED AT: 8:42	PURGING ENDED AT: 9:02	TOTAL VOLUME PURGED (gallons): 2.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:56	1.82	1.82	0.13	1.31	6.82	29.7	437.8	0.11	5.48	Clear	N/A
8:59	0.24	2.06	0.08	1.31	6.84	29.7	438.4	0.11	5.32	clear	N/A
9:02	0.24	2.30	0.08	1.31	6.85	29.7	440.9	0.10	4.47	clear	N/A

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott McManus / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 9:05	SAMPLING ENDED AT: 9:10
PUMP OR TUBING DEPTH IN WELL (feet): 7.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	1	PE	250 mL	HNO_3	—	—	200.7	APP	200
MW-9	1	PE	1 L	None	—	—	TDS	APP	↓

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: South St. Property		SITE LOCATION: 3348 S. Street, Ft. Myers	
WELL NO: MW-10	SAMPLE ID: MW-10		DATE: 7/17/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.53	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 1.53 feet) X 0.16 gallons/foot = 1.68 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 12:15	PURGING ENDED AT: 12:34	TOTAL VOLUME PURGED (gallons): 2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:28	1.69	1.69	0.13	1.60	7.07	29.2	1179	0.27	3.77	clear	NA
12:31	0.24	1.93	0.08	1.60	7.07	29.2	1181	0.23	3.18	↓	↓
12:34	0.24	2.17	0.08	1.60	7.08	29.2	1182	0.20	2.55	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Scott Michaels / GFA	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:37	SAMPLING ENDED AT: 12:42
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	1	PE	250	HNO_3	—	—	200.7	APP	280
MW-10	1	PE	1	none	—	—	TDS	"	"

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (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: ± 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)

Revision Date: February 12, 2009

APPENDIX-B

Groundwater and Standing Water Laboratory Analytical Reports, Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 660-88472-1
Client Project/Site: South Street Site

For:
GFA International Inc
5851 Country Lakes Drive
Fort Myers, Florida 33905-5504

Attn: Scott McManus

Noël Savoie

Authorized for release by:
7/24/2018 1:41:31 PM

Noel Savoie, Project Manager I
(850)878-3994
noel.savoie@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-88472-1	MW-1R	Water	07/17/18 11:56	07/19/18 08:55
660-88472-2	MW-2	Water	07/17/18 13:52	07/19/18 08:55
660-88472-3	MW-3	Water	07/17/18 15:09	07/19/18 08:55
660-88472-4	MW-4	Water	07/18/18 11:17	07/19/18 08:55
660-88472-5	MW-5	Water	07/17/18 11:16	07/19/18 08:55
660-88472-6	MW-6	Water	07/17/18 10:33	07/19/18 08:55
660-88472-7	MW-7	Water	07/17/18 14:29	07/19/18 08:55
660-88472-8	MW-8	Water	07/17/18 13:14	07/19/18 08:55
660-88472-9	MW-9	Water	07/18/18 09:05	07/19/18 08:55
660-88472-10	MW-10	Water	07/17/18 12:37	07/19/18 08:55
660-88472-11	Field Blank	Water	07/17/18 11:45	07/19/18 08:55

Case Narrative

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Job ID: 660-88472-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-88472-1

Comments
No additional comments.

Receipt
The samples were received on 7/19/2018 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6º C and 4.0º C.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: MW-1R — Lab Sample ID: 660-88472-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.116	I	0.200	0.0500	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0106		0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1.43		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0236		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0341		0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	962		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 660-88472-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00608	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	2.31		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0523		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00986	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	816		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 660-88472-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00324	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1.08		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0165		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00592	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	404		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 660-88472-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.145	I	0.200	0.0500	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0187		0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	16.7		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0583		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0225		0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	1170		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 660-88472-5

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5 (Continued) — Lab Sample ID: 660-88472-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00871	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1.64		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0299		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00846	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	758		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 660-88472-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00274	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	2.18		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.115		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0120	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	1540		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 660-88472-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00396	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.843		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.0432		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00633	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	246		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 660-88472-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.0635	I	0.200	0.0500	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00700	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.755		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.00183	I	0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0506		0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	470		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 660-88472-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: MW-9 (Continued) — Lab Sample ID: 660-88472-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.0762	I	0.200	0.0500	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00473	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.109	I	0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.00757		0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.00799	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	260		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 660-88472-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.0730	I	0.200	0.0500	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00419	I	0.0100	0.00185	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	0.410		0.200	0.0247	mg/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.00373	I	0.00400	0.00100	mg/L	1		200.7 Rev 4.4	Total Recoverable
Molybdenum	0.0112	I	0.0150	0.00400	mg/L	1		200.7 Rev 4.4	Total Recoverable
Total Dissolved Solids	718		5.00	5.00	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 660-88472-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1R

Lab Sample ID: 660-88472-1

Date Collected: 07/17/18 11:56
Matrix: Water
Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.116	I	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 14:55	1
Arsenic	0.0106		0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 14:55	1
Iron	1.43		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 14:55	1
Manganese	0.0236		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 14:55	1
Molybdenum	0.0341		0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 14:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	962		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-2

Lab Sample ID: 660-88472-2

Date Collected: 07/17/18 13:52
Matrix: Water
Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:07	1
Arsenic	0.00608	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:07	1
Iron	2.31		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:07	1
Manganese	0.0523		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:07	1
Molybdenum	0.00986	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	816		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-3

Lab Sample ID: 660-88472-3

Date Collected: 07/17/18 15:09
Matrix: Water
Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:11	1
Arsenic	0.00324	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:11	1
Iron	1.08		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:11	1
Manganese	0.0165		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:11	1
Molybdenum	0.00592	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	404		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-4

Lab Sample ID: 660-88472-4

Date Collected: 07/18/18 11:17
Matrix: Water
Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.145	I	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:14	1
Arsenic	0.0187		0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:14	1
Iron	16.7		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:14	1

Client Sample ID: MW-4

Lab Sample ID: 660-88472-4

Date Collected: 07/18/18 11:17

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0583		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:14	1
Molybdenum	0.0225		0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1170		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-5

Lab Sample ID: 660-88472-5

Date Collected: 07/17/18 11:16

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:23	1
Arsenic	0.00871	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:23	1
Iron	1.64		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:23	1
Manganese	0.0299		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:23	1
Molybdenum	0.00846	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	758		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-6

Lab Sample ID: 660-88472-6

Date Collected: 07/17/18 10:33

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:26	1
Arsenic	0.00274	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:26	1
Iron	2.18		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:26	1
Manganese	0.115		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:26	1
Molybdenum	0.0120	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1540		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-7

Lab Sample ID: 660-88472-7

Date Collected: 07/17/18 14:29

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:30	1
Arsenic	0.00396	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:30	1
Iron	0.843		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:30	1
Manganese	0.0432		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:30	1
Molybdenum	0.00633	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:30	1

Client Sample ID: MW-7

Lab Sample ID: 660-88472-7

Date Collected: 07/17/18 14:29

Matrix: Water

Date Received: 07/19/18 08:55

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	246		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-8

Lab Sample ID: 660-88472-8

Date Collected: 07/17/18 13:14

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0635	I	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:33	1
Arsenic	0.00700	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:33	1
Iron	0.755		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:33	1
Manganese	0.00183	I	0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:33	1
Molybdenum	0.0506		0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-9

Lab Sample ID: 660-88472-9

Date Collected: 07/18/18 09:05

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0762	I	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:36	1
Arsenic	0.00473	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:36	1
Iron	0.109	I	0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:36	1
Manganese	0.00757		0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:36	1
Molybdenum	0.00799	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		5.00	5.00	mg/L			07/20/18 10:05	1

Client Sample ID: MW-10

Lab Sample ID: 660-88472-10

Date Collected: 07/17/18 12:37

Matrix: Water

Date Received: 07/19/18 08:55

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0730	I	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:39	1
Arsenic	0.00419	I	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:39	1
Iron	0.410		0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:39	1
Manganese	0.00373	I	0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:39	1
Molybdenum	0.0112	I	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	718		5.00	5.00	mg/L			07/20/18 10:05	1

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: Field Blank
Date Collected: 07/17/18 11:45
Date Received: 07/19/18 08:55

Lab Sample ID: 660-88472-11
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 15:42	1
Arsenic	0.00185	U	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 15:42	1
Iron	0.0247	U	0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 15:42	1
Manganese	0.00100	U	0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 15:42	1
Molybdenum	0.00400	U	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 15:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/20/18 10:05	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 660-198859/1-A
Matrix: Water
Analysis Batch: 198890

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 198859

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0500	U	0.200	0.0500	mg/L		07/20/18 06:30	07/20/18 14:46	1
Arsenic	0.00185	U	0.0100	0.00185	mg/L		07/20/18 06:30	07/20/18 14:46	1
Iron	0.0247	U	0.200	0.0247	mg/L		07/20/18 06:30	07/20/18 14:46	1
Manganese	0.00100	U	0.00400	0.00100	mg/L		07/20/18 06:30	07/20/18 14:46	1
Molybdenum	0.00400	U	0.0150	0.00400	mg/L		07/20/18 06:30	07/20/18 14:46	1

Lab Sample ID: LCS 660-198859/2-A
Matrix: Water
Analysis Batch: 198890

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 198859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1.00	0.9421		mg/L		94	85 - 115
Arsenic	1.00	0.9458		mg/L		95	85 - 115
Iron	1.00	1.016		mg/L		102	85 - 115
Manganese	1.00	1.004		mg/L		100	85 - 115
Molybdenum	1.00	0.9662		mg/L		97	85 - 115

Lab Sample ID: 660-88472-1 MS
Matrix: Water
Analysis Batch: 198890

Client Sample ID: MW-1R
Prep Type: Total Recoverable
Prep Batch: 198859

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.116	I	1.00	1.093		mg/L		98	85 - 115
Arsenic	0.0106		1.00	0.9819		mg/L		97	85 - 115
Iron	1.43		1.00	2.388		mg/L		96	85 - 115
Manganese	0.0236		1.00	1.001		mg/L		98	85 - 115
Molybdenum	0.0341		1.00	1.009		mg/L		97	85 - 115

Lab Sample ID: 660-88472-1 MSD
Matrix: Water
Analysis Batch: 198890

Client Sample ID: MW-1R
Prep Type: Total Recoverable
Prep Batch: 198859

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.116	I	1.00	1.125		mg/L		101	85 - 115	3	20
Arsenic	0.0106		1.00	1.006		mg/L		100	85 - 115	2	20
Iron	1.43		1.00	2.439		mg/L		101	85 - 115	2	20
Manganese	0.0236		1.00	1.028		mg/L		100	85 - 115	3	20
Molybdenum	0.0341		1.00	1.036		mg/L		100	85 - 115	3	20

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

Lab Sample ID: MB 660-198879/1
Matrix: Water
Analysis Batch: 198879

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.00	U	5.00	5.00	mg/L			07/20/18 10:05	1

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

Lab Sample ID: LCS 660-198879/2
Matrix: Water
Analysis Batch: 198879

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			2000	2024		mg/L		101	80 - 120		

Lab Sample ID: 660-88472-2 DU
Matrix: Water
Analysis Batch: 198879

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	816			804.0		mg/L				1	20

Metals

Prep Batch: 198859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88472-1	MW-1R	Total Recoverable	Water	200.7	
660-88472-2	MW-2	Total Recoverable	Water	200.7	
660-88472-3	MW-3	Total Recoverable	Water	200.7	
660-88472-4	MW-4	Total Recoverable	Water	200.7	
660-88472-5	MW-5	Total Recoverable	Water	200.7	
660-88472-6	MW-6	Total Recoverable	Water	200.7	
660-88472-7	MW-7	Total Recoverable	Water	200.7	
660-88472-8	MW-8	Total Recoverable	Water	200.7	
660-88472-9	MW-9	Total Recoverable	Water	200.7	
660-88472-10	MW-10	Total Recoverable	Water	200.7	
660-88472-11	Field Blank	Total Recoverable	Water	200.7	
MB 660-198859/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 660-198859/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
660-88472-1 MS	MW-1R	Total Recoverable	Water	200.7	
660-88472-1 MSD	MW-1R	Total Recoverable	Water	200.7	

Analysis Batch: 198890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88472-1	MW-1R	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-2	MW-2	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-3	MW-3	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-4	MW-4	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-5	MW-5	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-6	MW-6	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-7	MW-7	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-8	MW-8	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-9	MW-9	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-10	MW-10	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-11	Field Blank	Total Recoverable	Water	200.7 Rev 4.4	198859
MB 660-198859/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	198859
LCS 660-198859/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-1 MS	MW-1R	Total Recoverable	Water	200.7 Rev 4.4	198859
660-88472-1 MSD	MW-1R	Total Recoverable	Water	200.7 Rev 4.4	198859

General Chemistry

Analysis Batch: 198879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88472-1	MW-1R	Total/NA	Water	SM 2540C	
660-88472-2	MW-2	Total/NA	Water	SM 2540C	
660-88472-3	MW-3	Total/NA	Water	SM 2540C	
660-88472-4	MW-4	Total/NA	Water	SM 2540C	
660-88472-5	MW-5	Total/NA	Water	SM 2540C	
660-88472-6	MW-6	Total/NA	Water	SM 2540C	
660-88472-7	MW-7	Total/NA	Water	SM 2540C	
660-88472-8	MW-8	Total/NA	Water	SM 2540C	
660-88472-9	MW-9	Total/NA	Water	SM 2540C	
660-88472-10	MW-10	Total/NA	Water	SM 2540C	
660-88472-11	Field Blank	Total/NA	Water	SM 2540C	
MB 660-198879/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 198879 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-198879/2	Lab Control Sample	Total/NA	Water	SM 2540C	
660-88472-2 DU	MW-2	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: MW-1R
Lab Sample ID: 660-88472-1
Date Collected: 07/17/18 11:56
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 14:55	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-2
Lab Sample ID: 660-88472-2
Date Collected: 07/17/18 13:52
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:07	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-3
Lab Sample ID: 660-88472-3
Date Collected: 07/17/18 15:09
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:11	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-4
Lab Sample ID: 660-88472-4
Date Collected: 07/18/18 11:17
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:14	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-5
Lab Sample ID: 660-88472-5
Date Collected: 07/17/18 11:16
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:23	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Lab Chronicle

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: MW-6

Lab Sample ID: 660-88472-6

Date Collected: 07/17/18 10:33
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:26	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-7

Lab Sample ID: 660-88472-7

Date Collected: 07/17/18 14:29
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:30	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-8

Lab Sample ID: 660-88472-8

Date Collected: 07/17/18 13:14
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:33	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-9

Lab Sample ID: 660-88472-9

Date Collected: 07/18/18 09:05
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:36	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Client Sample ID: MW-10

Lab Sample ID: 660-88472-10

Date Collected: 07/17/18 12:37
Matrix: Water
Date Received: 07/19/18 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:39	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Lab Chronicle

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Client Sample ID: Field Blank
Date Collected: 07/17/18 11:45
Date Received: 07/19/18 08:55

Lab Sample ID: 660-88472-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			198859	07/20/18 06:30	GH1	TAL TAM
Total Recoverable	Analysis	200.7 Rev 4.4		1	198890	07/20/18 15:42	GH1	TAL TAM
Total/NA	Analysis	SM 2540C		1	198879	07/20/18 10:05	SGF	TAL TAM

Laboratory References:

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

Method Summary

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL TAM
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
200.7	Preparation, Total Recoverable Metals	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: GFA International Inc
Project/Site: South Street Site

TestAmerica Job ID: 660-88472-1

Laboratory: TestAmerica Tampa

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-19

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Molybdenum

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

640-Tallahassee

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Scott McManus	Lab PM: Savoie, Noel	Carrier Tracking No(s): 640-Tallahassee	COC No: 660-81586-26245.1
Client Contact: Scott McManus	Phone: 239-257-6921	E-Mail: noel.savoie@testamericainc.com		Page: Page 1 of 1
Company: GFA International Inc				Job #:
Address: 5851 Country Lakes Drive	Due Date Requested:			
City: Fort Myers	TAT Requested (days): STD			
State, Zip: FL, 33905-5504				
Phone: 239-489-2443(Tel)	PO #: Purchase Order not required			
Email: smcmanus@teamgfa.com	WO #:			
Project Name: South Street Site	Project #: 66011942			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
M - Hexane
Other:

660-88472 Chain of Custody

Loc: 660
88472

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Al, As, Fe, Mn, Mo	2540C - Total Dissolved Solids, (TDS)	Total Number of cont	Special Instructions/Note:
			Preservation Code:				D	N		
MW-1R	7/17/18	11:56	G	W			X	X		
MW-2		13:52					X	X		
MW-3		15:09					X	X		
MW-4	7/18/18	11:17					X	X		
MW-5	7/17/18	11:16					X	X		
MW-6		10:33					X	X		
MW-7		14:29					X	X		
MW-8		13:14					X	X		
MW-9	7/18/18	09:05					X	X		
MW-10	7/17/18	12:37					X	X		
Field Blank		11:46					X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 6.26.18	Time: 1600	Method of Shipment: G			
Relinquished by: Scott McM	Date/Time: 7/18/18 - 1300	Company: GFA	Received by:	Date/Time: 7/19/18 855	Company: TAT amp		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: ☑ Yes ☐ No
Custody Seal No.: 391834 / 391779
Cooler Temperature(s) °C and Other Remarks: 1.2/1.6 3.6/4.0 CV-09

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: GFA International Inc

Job Number: 660-88472-1

Login Number: 88472

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	