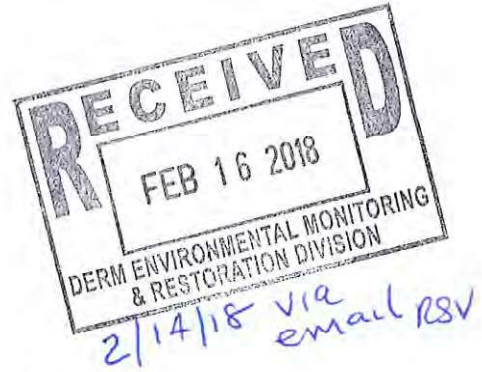


SCS ENGINEERS

February 14, 2018
File No. 09217186.02

Mr. Wilbur Mayorga, P.E., Chief
Department of Regulatory and Economic Resources
Division of Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912



**Re: Ludlam Corridor Properties 'All Green Trail'
Former 1-Mile and 5-Mile Railroad Corridors
Between NW 7th and SW 80th Streets
Miami, Florida
DERM HWR-836**

Subject: Soil and Groundwater Sampling Report

Dear Mr. Mayorga:

On behalf of LR 13 – 18 LLC and FECI LT 1 LLC, SCS Engineers (SCS) submits this Soil and Groundwater Sampling Report to the Miami-Dade County Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM) for the above referenced site (the Site). The groundwater sampling was conducted in accordance with the Groundwater Sampling Plan approved by DERM with modifications in the December 21, 2017 correspondence. The report also addresses DERM's comment 2.c of the October 31, 2017 correspondence regarding phenolic compounds in soil and comment 2.d in the same correspondence regarding soil boring SB-7. **Attachment A** contains relevant DERM correspondences. **Figure 1** is a site location plan.

FIELD ACTIVITIES

SCS performed field sampling activities in accordance with the Standard Operating Procedures (SOPs) provided within Chapter 62-160, Florida Administrative Code as amended. Underground utility clearance was performed via Sunshine State One Call prior to mobilizing to the Site. SCS retained JAEE Environmental Services, a Florida-licensed driller, and Pace Analytical Services and Jupiter Environmental Laboratories, Inc. (Jupiter), National Environmental Laboratory Accreditation Program (NELAP)-certified laboratories, for drilling and laboratory analyses.

Soil Assessment

On December 8, 2017, SCS advanced seven soil borings SB-8A, SB-12A, SB-30A, SB-40A, SB-42A and SB-48A at the original locations SB-8, SB-12, SB-30, SB-40, SB-42 and SB-48, respectively. The borings were advanced via direct push technology to water table (six or seven feet below ground surface). SCS collected soil samples from 0-0.5 feet (ft) below ground surface (bgs) and 0.5 ft-2 ft bgs intervals. The soil samples were submitted to Pace for analysis for



cresols, pentachlorophenol and phenol via EAP Method 82701. Sample SB-30A (0.5-2) was also analyzed for pentachlorophenol via synthetic precipitation leaching procedure (SPLP) after receiving the initial pentachlorophenol data. **Attachment B** contains the soil boring logs.

On January 16, 2018, SCS advanced soil boring SB-7R via direct push technology approximately 500 ft south of SB-6, near the property boundary. **Table 1a** includes the global positioning system (GPS) coordinates of SB-7R and historical soil borings. The soil samples were collected from 0-0.5 feet (ft) bgs, 0.5 ft-2 ft bgs, and in 2-ft intervals thereafter to the water table. The water table was encountered at approximately six feet bgs as shown on the soil boring log provided in **Attachment B**.

Soil samples collected from the 0-0.5 ft and 0.5 ft-2 ft bgs intervals were submitted to Jupiter for analysis for arsenic, cadmium, chromium, copper, and lead via EPA Method 6020, polycyclic aromatic hydrocarbons (PAHs) via EPA Method 8270, total recoverable petroleum hydrocarbons (TRPH) via FL-PRO, and volatile organic compounds (VOCs) via EPA Method 8260. The remaining samples at deeper intervals were archived.

After receiving initial data from the 0-0.5 ft and 0.5 ft-2 ft intervals, the 0.5 ft-2 ft interval was analyzed for lead via SPLP.

Groundwater Assessment

On January 12, 15, 16 and 17, 2018, SCS installed 18 shallow and one intermediate monitoring wells utilizing hollow stem auger (shallow wells) and direct push drilling method (intermediate well). **Table 1b** summarizes the GPS coordinates of the monitoring wells. The depth of shallow monitoring wells range from 15 feet to 20 feet bgs, depending on water table encountered. The shallow wells were installed with 10-foot of 0.01-inch slotted screen, and completed with flush-mounted steel manhole cover and lockable caps.

The 27-foot deep intermediate monitoring well was installed with a double casing with four inches of outer casing to 20 ft deep. The well has 5-foot of 0.01-inch slotted screen from 22 ft bgs to 27 ft bgs and was completed with a flush-mounted steel manhole cover and lockable caps. Refer to **Attachment C** for monitoring well construction and development logs. Well development water and drill cuttings were contained in 55-gallon drums, pending off-site disposal.

On January 11 and 16 through 19, 2018, SCS sampled the 18 newly installed and 20 existing wells for the parameters show in **Table 2**. Refer to **Attachment D** for copies of the groundwater sampling logs and associated equipment calibration logs.

ANALYTICAL RESULTS SUMMARY AND DISCUSSION

SCS compared the results to applicable groundwater cleanup target levels (GCTLs) or soil cleanup target levels (SCTLs) pursuant to Chapter 24, Code of Miami-Dade County. Laboratory

¹ Note that the chains-of-custody were inadvertently marked for analysis for PAHs and arsenic. None of the samples were analyzed for arsenic and PAHs.

reports and chain of custodies are provided as **Attachment E**. The benzo(a)pyrene equivalents (BaPE) were calculated for SB-7R (0-0.5'). **Attachment F** contains the calculation. A summary of the soil analytical results is provided in **Table 3** and groundwater analytical results in **Tables 4 and 5**.

Soil Sampling Results

Concentrations of cresols, pentachlorophenol and phenol at the samples collected SB-8A, SB-12A, SB-30A, SB-40A, SB-42A and SB-48A were below the direct exposure residential SCTLs or leachability based on groundwater criteria (LBGC) except for pentachlorophenol at SB-30A(0.5-2). Pentachlorophenol concentration at SB-30A (0.5-2) was detected at 0.23 mg/kg (estimated value with flag "I"), exceeding the LBGC of 0.03 mg/kg. However, the SPLP pentachlorophenol was not detected.

Two soil samples collected at SB-7R were analyzed for the parameters shown on **Table 2**. Only benzo(a)pyrene total equivalent (BaPE) at SB-7R (0-0.5) was reported exceeding the direct exposure residential SCTL (0.2 mg/kg). The remainder of PAH compounds were reported less than their respective residential SCTLs or LBGC.

The concentrations of the remaining parameters analyzed, including chromium, copper, arsenic, lead, cadmium, VOCs, and TRPH, were below either the corresponding direct exposure residential SCTLs or leachability based groundwater criteria. The SPLP lead concentration at SB-7R (0.5-2) was reported less than the GCTL.

Groundwater Sampling Results

Thirty-nine groundwater samples were collected and analyzed for select parameters as shown in **Table 2**. Below is a summary of groundwater analytical data.

- Arsenic concentrations from 15 shallow monitoring wells ranged from below the method detection limit (MDL) (at multiple wells) to 100 µg/L (at MW-9). The arsenic concentration at the intermediate well at MW-37I was below the GCTL. Arsenic concentrations exceeded the GCTL of 10 ug/L at three of 16 wells sampled (100 µg/L at MW-9, 21 µg/L at MW-12, and 17 µg/L at MW-27).
- Arsenic concentrations were reported below the GCTL at the boundary wells MW-3E, MW-7E, MW-10E, MW-29E, and MW-33E, which serve as delineation points for the corresponding wells (MW-3, MW-7, MW-10, MW-29, and MW-33), where arsenic concentrations were previously reported above the GCTL.
- Chloromethane concentrations at MW-31 and 23 were below the laboratory method detection limit (MDL).
- The ammonia concentration at MW-33 was below the laboratory MDL.
- The lead concentration at MW-21-2 was below the GCTL of 15 ug/L.

- Concentrations of cresols, phenol and pentachlorophenol at the four wells (MW-7, MW-29, MW-33 and MW-37) were below the corresponding laboratory MDLs.
- PAHs were sampled at 36 monitoring wells, and were not detected above the GCTLs. Note that PAHs were sampled at a total of 46 locations through temporary and permanent monitoring wells at the site. PAHs were not detected above the GCTLs at any of these location.

Figures 2 through 10 depict the arsenic, chloromethane and PAHs data in groundwater samples.

CONCLUSIONS AND RECOMMENDATIONS

Soil analytical results at SB-8A, SB-12A, SB-30A, SB-40A, SB-42A and SB-48A suggest that phenolic compounds are not contaminants of concern in soil at the site. Soil analytical results at SB-7R suggest surficial PAH-impact slightly above the residential direct exposure SCTL at this location (the upper six inches).

Groundwater data indicate that arsenic is the only contaminants of concern in groundwater at the site and that arsenic impact is limited to the shallow groundwater. Arsenic concentrations historically exceeded the GCTL in samples collected from nine monitoring wells (MW-3, MW-7, MW-9, MW-10, MW-12, MW-27, MW-29, MW-33, and MW-37). Groundwater impacts in six previously installed monitoring wells MW-3, MW-7, MW-10, MW-29, MW-33, and MW-37 have been delineated by their corresponding boundary wells, which were sampled and reported below the GCTLs for arsenic and PAHs. Groundwater arsenic concentrations appear to attenuate prior to reaching property boundary.

SCS recommends resampling MW-9, MW-12 and MW-27 to confirm the arsenic results. If confirmed, SCS recommends installing boundary wells to delineate these wells, and an intermediate well adjacent to MW-9 if warranted.

Should you have any questions, please contact the undersigned at 305-412-8185.

Sincerely,



Anthony Pezzotti, P.G.
Staff Professional
SCS ENGINEERS



Fangmei Zhang, P.E., PhD
Senior Project Manager
SCS ENGINEERS

Enclosures:

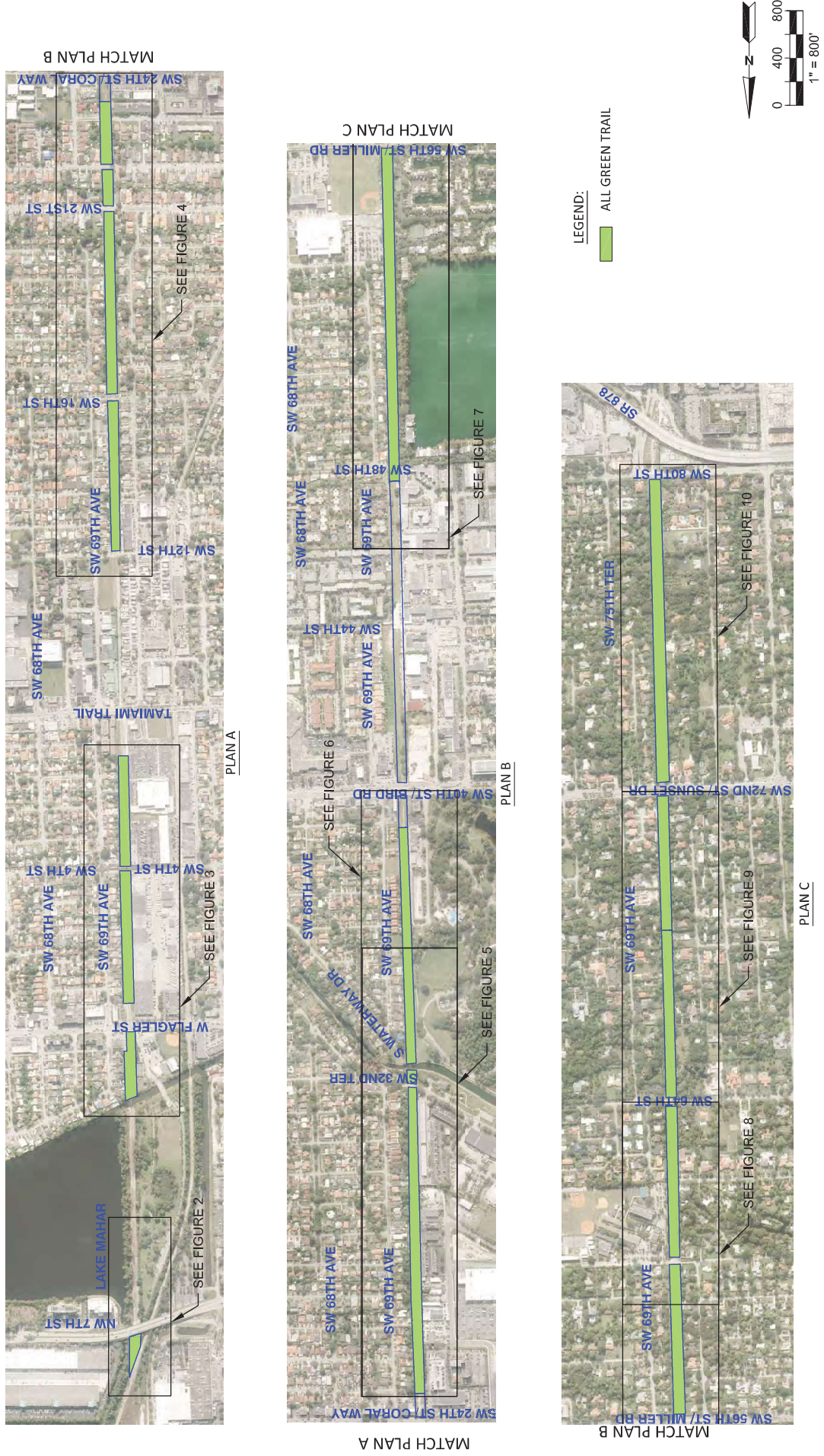
- Table 1a – GPS coordinates of soil borings
- Table 1b – GPS coordinates of monitoring wells and temporary wells
- Table 2 – Groundwater and soil sampling matrix
- Table 3 – Soil Analytical Summary
- Table 4 – Groundwater Analytical Summary - Arsenic

Table 5 – Groundwater Analytical Summary
Figure 1 – Site Location Plan
Figure 2 to 10 – Groundwater Analytical Data
Attachment A – DERM correspondences
Attachment B – Soil Boring Logs
Attachment C – Well Installation Documentation
Attachment D – Groundwater Sampling Logs and Associated Calibration Logs
Attachment E – Laboratory Reports and Chains of Custody
Attachment F – BaPE calculation

cc: Lee Hefty, Lorna Bucknor, Sandra Rezola, Becky Varley – DERM
Jose Gonzalez, Adam Furstein, Kolleen Cobb – LR 13 – 18 LLC and FECI LT 1 LLC
Howard Nelson – Bilzin Sumberg
Lisa Smith, Eddy Smith – SCS

FIGURES

\\miami-601\miami\PROJECT\09217186.00\Drawings\2018-01_GW_SAMPLING\09217186.02 F001-9 - GW Sampling Plan.dwg Feb 02, 2018 - 5:41pm Layout Name: Figure 1 - Site Location Map By: 3630r6



SCS ENGINEERS

FIGURE 1. SITE LOCATION PLAN
 LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

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TWP-1	09052017	Turbidity	Arsenic	Arsenic, Dissolved
		125	5.0 U	

PLAN

- NOTES:
1. TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 2. **BOLD** VALUES EXCEED THE ARSENIC GC TL OF 10 UG/L AND THE CHROMETHANE GC TL OF 2.7 UG/L
 3. BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.
 4. GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR TRPH, VOCs, PAHS, Cd, As, Cr, Cu, and Pb. ONLY ARSENIC AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE GC TLs
 5. I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 6. U - CONCENTRATION BELOW THE MDL

LEGEND:

- TRAIL LIMITS
- MONITORING WELLS
- POTENTIAL PRIVATE WELLS
- SOIL BORING/PERMANENT MONITORING WELL
- SOIL BORING LOCATION
- SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION
- STEP-OUT SOIL BORINGS
- SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL

1" = 250'

FIGURE 2. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

MW-3E	1/18/2018	Turbidity	Arsenic	Arsenic Dissolved
		2.01	2.0	

NOTE: PAHs WERE ANALYZED ON 1/18/18 AT MW-3E. NO DETECTIONS WERE REPORTED

MW-7E	1/18/2018	Turbidity	Arsenic	Arsenic Dissolved
		1.40	3.1	

NOTE: PAHs WERE ANALYZED ON 1/18/18 AT MW-7E. NO DETECTIONS WERE REPORTED



PLAN

TWP-3	09/07/2017	Turbidity	Arsenic	Arsenic Dissolved
		638	877	47.8

NOTE: PAHs WERE ANALYZED ON 1/18/18 AT MW-3. NO EXCEEDANCES OF THE CCTL WERE REPORTED

TWP-7	09/07/2017	Turbidity	Arsenic	Arsenic Dissolved
		553	68.8	66.4
MW-7	03/29/17	7.37	34.1	
MW-7	09/20/17	7.95	28.1	

NOTE: PAHs AND PHENOLIC COMPOUNDS WERE ANALYZED ON 1/18/18 AT MW-7. NO DETECTIONS WERE REPORTED

- NOTES:
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GCTL OF 10 UG/L AND THE CHLOROMETHANE GCTL OF 2.7 UG/L
 - BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.
 - GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR IRPH, VOCs, PAHs, Cd, As, Cr, Cu, and B. WELL USES AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE GCTLs
 - I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 - U - CONCENTRATION BELOW THE MDL

**FIGURE 3. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL**

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	Turbidity	Arsenic	
MW-9	1/18/2018	2.34	100

NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/18/18 AT MW-9. NO EXCEEDANCES OF THE GCLT WERE REPORTED

	Turbidity	Arsenic	Arsenic
MW-10E	1/18/2018	2.81	0.05 U

NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/18/18 AT MW-10E. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic	Arsenic
TWP-16	09/05/2017	87	5.0 U

NOTE: PAHs WERE ANALYZED ON 1/17/18 AT MW-16. NO EXCEEDANCES OF THE GCLT WERE REPORTED



	Turbidity	Arsenic	Arsenic
TWP-10	05/01/2017	105	141
MW-10	10/09/2017	8.95	20.8

NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/18/18 AT MW-10. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic	Arsenic
MW-11	1/18/2018	4.11	10

NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/18/18 AT MW-11. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic	Arsenic	Chromatogram
TWP-12	08/29/2017	42	112.0(6.1)	16.5
MW-12	10/02/2017	4.98	0.3	1.9
MW-12	10/09/2017	8.37	11.4	21
MW-12	1/17/2018	2.58	21	

NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/17/18 AT MW-12. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic	Arsenic
TWP-14	09/05/2017	18.6	5.41

PLAN

- NOTES:
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GCLT OF 10 UG/L AND THE CHLOROMETHANE GCLT OF 2.7 UG/L
 - BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.
 - GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR TRPH, VOCs, PAHs, Cd, As, Cr, Cu, and Pb. ONLY ARSENIC AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE GCLTS
 - I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 - U - CONCENTRATION BELOW THE MDL

- LEGEND:
- TRAIL LIMITS
 - MONITORING WELLS
 - POTENTIAL PRIVATE WELLS
 - SOIL BORING/PERMANENT MONITORING WELL
 - SOIL BORING LOCATION
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION
 - STEP-OUT SOIL BORINGS
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL



FIGURE 4. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

	Turbidity	Arsenic	Arsenic
		Dissolved	Disinfectant
TWP-17	08/31/2017	19.6	26.0
MW-17	10/2/2017	5.82	8.61
	10/2/2017	6.07	5.1

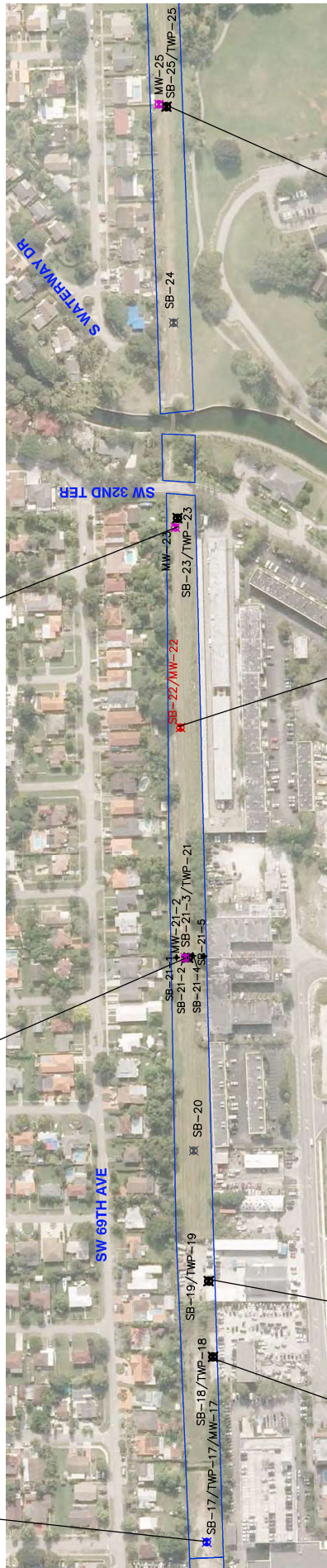
NOTE: PAHs WERE ANALYZED FOR THE SAMPLE COLLECTED ON 1/17/18 AT MW-17. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic
		Disinfectant
TWP-21	08/31/2017	5.0 U

NOTE: PAHs AND LEAD WERE REPORTED BELOW THE CCTL ON 1/17/2018 AT MW-21-2.

	Turbidity	Arsenic	Arsenic	Chloromethane
		Dissolved	Disinfectant	
TWP-23	08/31/2017	171	5.0 U	3.2
MW-23	01/17/2018			2.5 U

NOTE: PAHs WERE ANALYZED ON 1/17/18 AT MW-23. NO DETECTIONS WERE REPORTED



PLAN

NOTE: PAHs WERE ANALYZED ON 1/17/18 AT MW-22. NO EXCEEDANCES OF THE CCTL WERE REPORTED.

	Turbidity	Arsenic	Arsenic
		Dissolved	Disinfectant
TWP-25	8/30/2017	5.0 U	
MW-25	1/17/2018	4.18	0.65 U

NOTE: PAHs WERE ANALYZED ON 1/17/18 AT MW-25. NO DETECTIONS WERE REPORTED

	Turbidity	Arsenic	Arsenic
		Dissolved	Disinfectant
TWP-19	08/31/2017	17.7	6.21

NOTES:
1. TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L

2. **BOLD** VALUES EXCEED THE ARSENIC CCTL OF 10 UG/L AND THE CHLOROMETHANE CCTL OF 2.7 UG/L

3. BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.

4. GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR TRPH, VOCs, PAHs, Cd, As, Cr, Cu, and Pb. ONLY ARSENIC AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE CCTLS

5. I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT

6. U - CONCENTRATION BELOW THE MDL

- LEGEND:
- TRAIL LIMITS
 - MONITORING WELLS
 - ▲ POTENTIAL PRIVATE WELLS
 - SOIL BORING/PERMANENT MONITORING WELL
 - SOIL BORING LOCATION
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION
 - + STEP-OUT SOIL BORINGS
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL

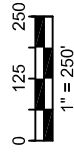


FIGURE 5. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

	Turbidity	Arsenic	Arsenic, Dissolved
TWP-27	06/31/2017	125	16.8
	10/22/2017	4.86	18.7
MW-27	10/9/2017	4.07	5.9 U
	1/17/2018	1.03	17

NOTE: PAHS WERE ANALYZED ON 1/17/18 AT MW-27. NO DETECTIONS WERE REPORTED



PLAN

	Turbidity	Arsenic	Arsenic, Dissolved
MW-26	11/2/2017	6.21	5.0 U

NOTE: PAHS WERE ANALYZED ON 1/17/18 AT MW-26. NO DETECTIONS WERE REPORTED

- NOTES:
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GCTL OF 10 UG/L AND THE CHLOROMETHANE GCTL OF 2.7 UG/L
 - BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.
 - GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR TRPH, VOCs, PAHS, Cd, As, Cr, Cu, and Pb. ONLY ARSENIC AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE GCTLs
 - 1 - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 - U - CONCENTRATION BELOW THE MDL

LEGEND:

- TRAIL LIMITS
- MONITORING WELLS
- POTENTIAL PRIVATE WELLS
- SOIL BORING/PERMANENT MONITORING WELL
- SOIL BORING LOCATION
- SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION
- STEP-OUT SOIL BORINGS
- SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL

1" = 250'

**FIGURE 6. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL**

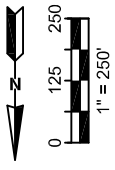
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PLAN

- NOTES:**
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GC TL OF 10 UG/L AND THE CHLOROMETHANE GC TL OF 2.7 UG/L
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 - I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
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- LEGEND:**
- TRAIL LIMITS
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 - SOIL BORING LOCATION
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 - STEP-OUT SOIL BORINGS
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL



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**FIGURE 7. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL**

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TWP-37	08/30/2017	3.91	102	Arsenic	Disabled
MW-37	10/30/2017	1.53	76.8		
MW-37A	11/9/2018	4.23	2.5		
MW-37E	11/29/2017	5.81	5.0 U		

NOTE: PAHs WERE ANALYZED FOR MW-37 ON 1/11/2018 AND FOR MW-37 ON 1/18/2018. PHENOLIC COMPOUNDS WERE ANALYZED FOR MW-37 ON 7/19/2018. NO DETECTIONS WERE REPORTED

MW-36	11/29/2017	6.37	5.0 U	Arsenic	Disabled

NOTE: PAHs WERE ANALYZED FOR MW-36 ON 1/11/2018. NO DETECTIONS WERE REPORTED

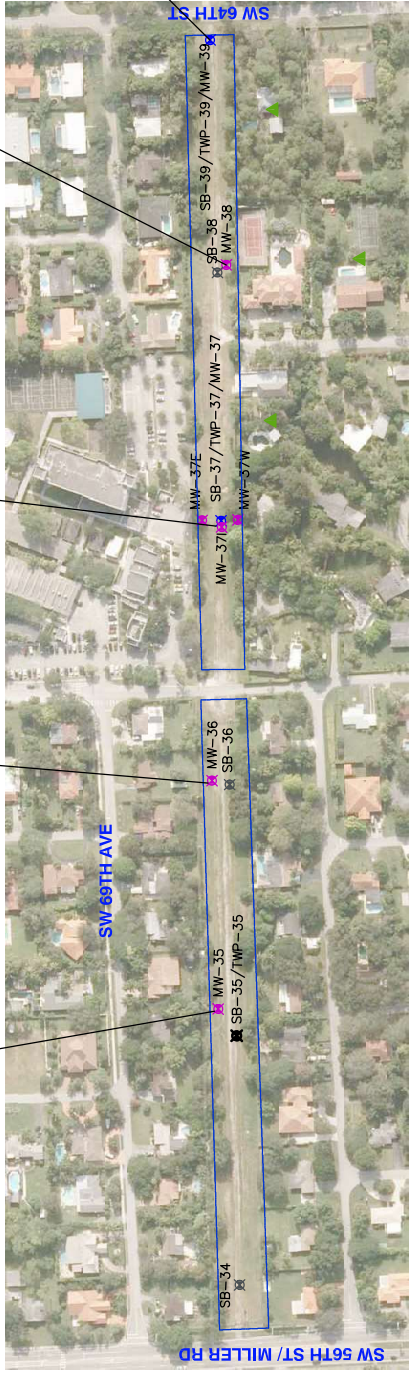
TWP-35	08/31/2017	31.7	5.0 U	Arsenic	Disabled
MW-35	11/29/2017	3.39	5.0 U		
MW-35	11/29/2017	3.29	5.0 U		

NOTE: PAHs WERE ALSO ANALYZED FOR THE SAMPLE COLLECTED ON 11/15/17 AND FOR MW-35. NO DETECTIONS WERE REPORTED

MW-38	11/17/2017	3.39	5.0 U	Arsenic	Disabled

NOTE: PAHs WERE ANALYZED FOR MW-38 ON 1/11/2018. NO DETECTIONS WERE REPORTED

TWP-38	08/30/2017	45.3	5.0 U	Arsenic	Disabled
MW-38	10/3/2017	3.49	5.0 U		



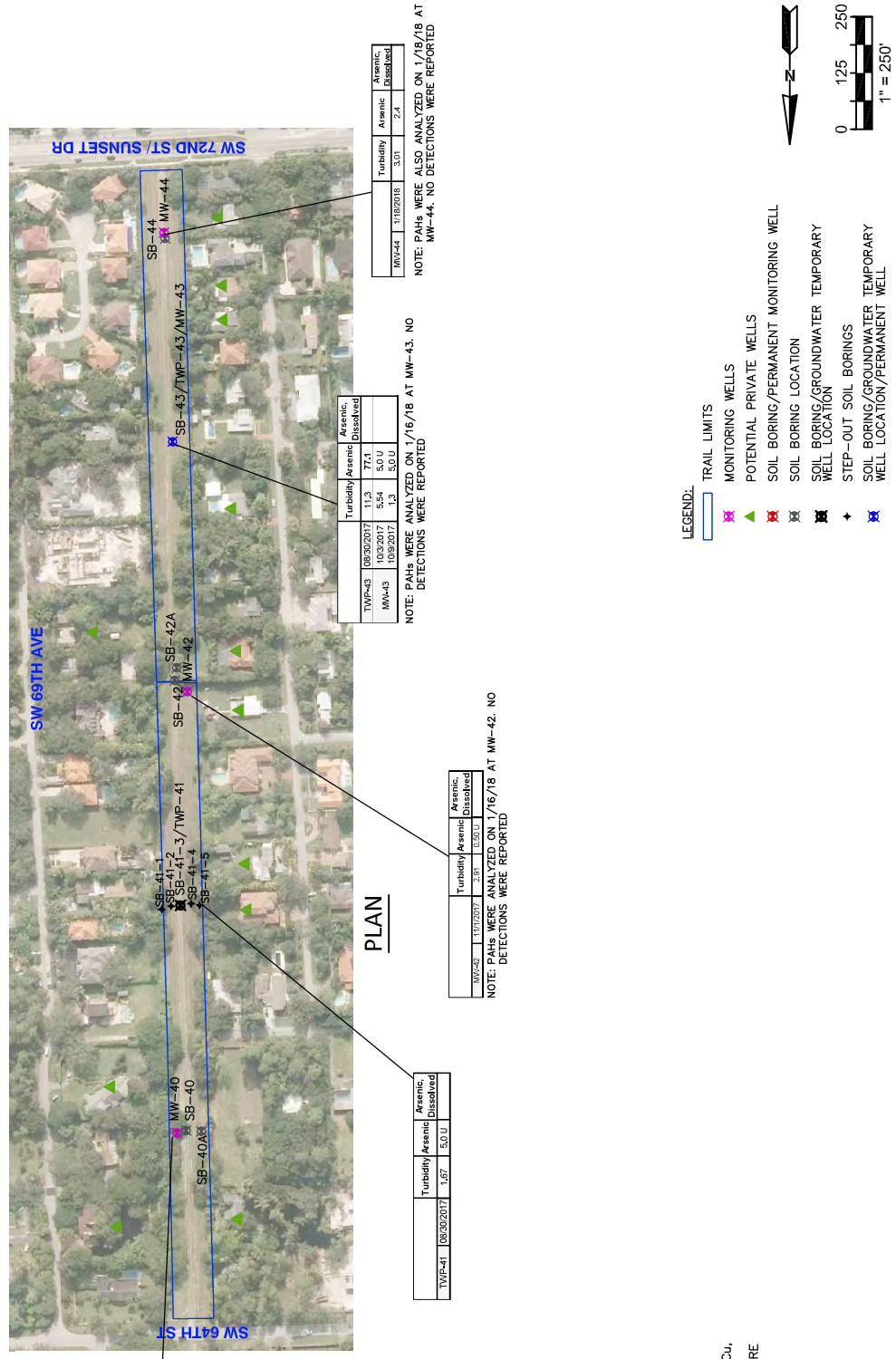
PLAN

- NOTES:
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GCTL OF 10 UG/L AND THE CHLOROMETHANE GCTL OF 2.7 UG/L
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 - 1 - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 - U - CONCENTRATION BELOW THE MDL

- LEGEND:
- TRAIL LIMITS
 - MONITORING WELLS
 - POTENTIAL PRIVATE WELLS
 - SOIL BORING/PERMANENT MONITORING WELL
 - SOIL BORING LOCATION
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION
 - STEP-OUT SOIL BORINGS
 - SOIL BORING/GROUNDWATER TEMPORARY WELL LOCATION/PERMANENT WELL



FIGURE 8. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL



- NOTES:**
- TURBIDITY IN NTU; ARSENIC CONCENTRATIONS IN GROUNDWATER IN UG/L
 - BOLD** VALUES EXCEED THE ARSENIC GCTL OF 10 UG/L AND THE CHLOROMETHANE GCTL OF 2.7 UG/L
 - BLANK CELLS INDICATE PARAMETERS WERE NOT ANALYZED.
 - GROUNDWATER SAMPLES AT TEMPORARY WELLPOINTS WERE ANALYZED FOR TRPH, VOCs, PAHS, Cd, As, Cr, Cu, and Pb. ONLY ARSENIC AND CHLOROMETHANE CONCENTRATIONS ARE SHOWN. OTHER PARAMETERS WERE BELOW THE GCTLs
 - I - CONCENTRATION WAS BETWEEN THE METHOD DETECTION LIMIT (MDL) AND PRACTICAL QUANTITATION LIMIT
 - U - CONCENTRATION BELOW THE MDL

SCS ENGINEERS

FIGURE 9. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

09217186.02

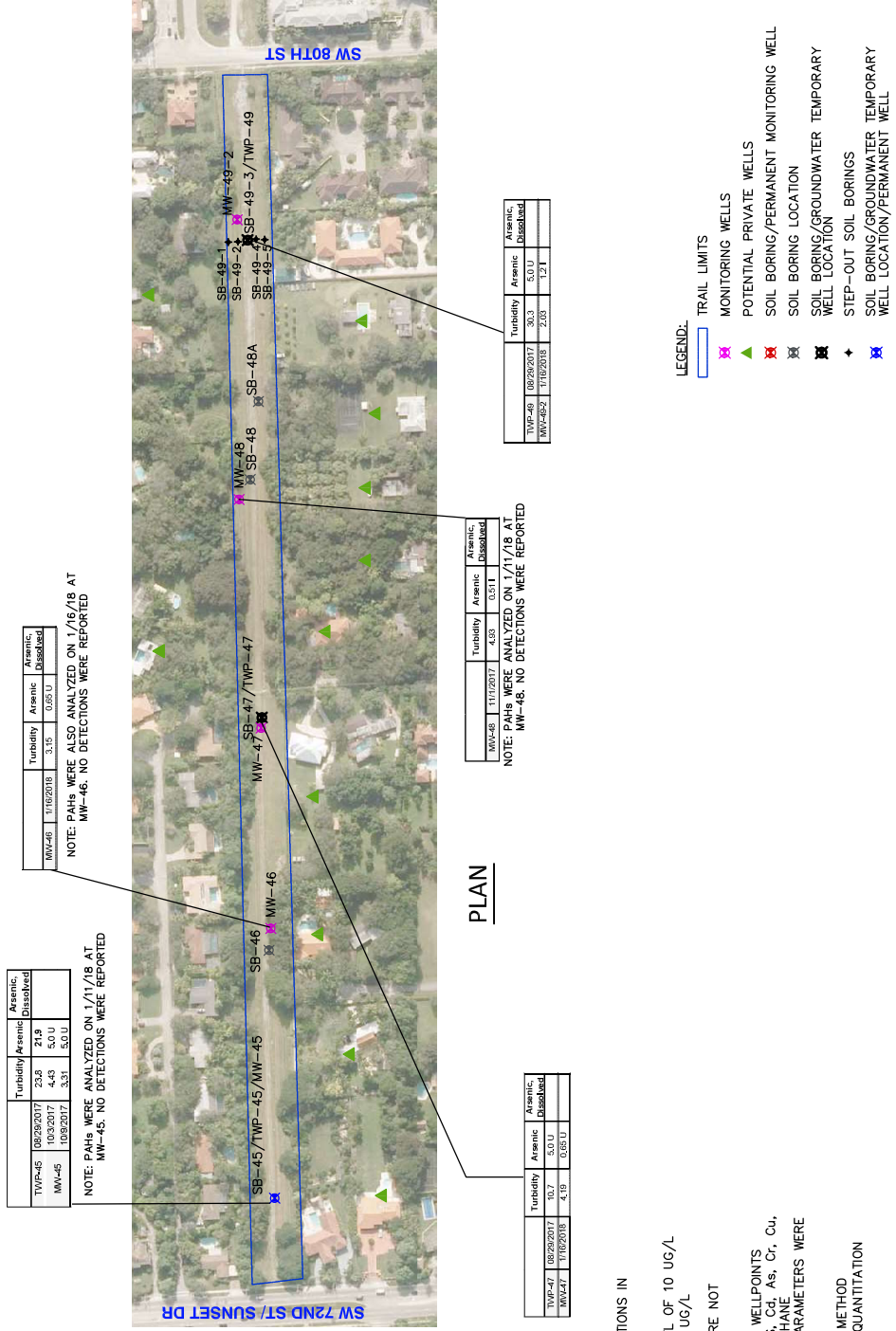


FIGURE 10. GROUNDWATER ANALYTICAL DATA
LUDLAM TRAIL CORRIDOR, MIAMI-DADE COUNTY, FL

09217186.02