Environmental Consultants
and Contractors

7700 N. Kendall Drive
Suite 300
Miami, FL 33156

305 412-8185
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SCS ENGINEERS

November 11, 2015
File No. 09213010.39

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

Re: **Curtis Park (HWR-777)**
1901 NW 24th Avenue
Miami, Florida

Subject: **Fourth Quarterly Groundwater Monitoring Report**

Dear Mr. Mayorga:

SCS Engineers (SCS), on behalf of the City of Miami (the City), is pleased to submit the Fourth Quarterly Groundwater Monitoring Report (GMR) for the above referenced site (the Site). A site plan is provided as **Figure 1**. A groundwater monitoring only plan (MOP) was approved by the Department of Regulatory and Economic Resources, Division of Environmental Resource Management (DERM) in correspondence dated July 18, 2014 (**Attachment 1**). This GMR provides a summary of groundwater sampling activities conducted during October 2015.

GROUNDWATER QUALITY ASSESSMENT

GROUNDWATER ELEVATION

On October 19, 2015, SCS recorded depth-to-water (DTW) measurements from monitoring wells MW-1 through MW-3 to determine groundwater elevation. The October 19, 2015 elevations were used to calculate the groundwater flow direction, interpreted towards the west-southwest with a horizontal hydraulic gradient of 0.003 feet per foot.

Monitoring well construction details, top-of-casing (TOC) elevation data and depth to water measurements are summarized in **Table 1**. Groundwater elevations and the interpreted groundwater flow direction are provided in **Figure 2.**

GROUNDWATER SAMPLING

Refer to **Attachment 2** for copies of the groundwater sampling logs. On October 19, 2015, SCS collected groundwater samples from monitoring wells MW-1 through MW-3. Field activities were conducted in accordance with the FDEP Quality Assurance Rule 62-160, FAC. Per the approved MOP samples were submitted to Test America Laboratories, Inc. (Test America) a NELAP- accredited laboratory for the following analysis via EPA Method 6010:

- MW-1: Antimony
- MW-2: Aluminum and Iron
- MW-3: Iron

Additionally, due to reported concentrations of iron in monitoring well MW-2, SCS collected a confirmation groundwater sample on November 4, 2015 for analysis of iron per EPA Method 6010.

ANALYTICAL RESULTS

A summary of groundwater analytical results is provided in **Table 2** and depicted on **Figure 3.** Laboratory analytical reports and chain-of-custody records are provided in **Attachment 3**. Analytical results were compared to groundwater cleanup target levels (GCTLs) and natural attenuation default concentrations (NADC) promulgated in Chapter 62-780, FAC.

Antimony – Antimony was reported above the GCTL, but below the NADC in monitoring well MW-1.

Aluminum – Aluminum was reported below the Method Detection Limit (MDL) at monitoring well MW-2.

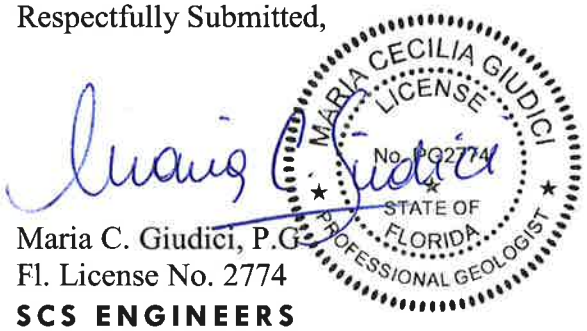
Iron – The October 19, 2015 analytical results reported iron above the GCTL in monitoring well MW-2 however the November 4, 2015 re-sample results indicate a concentration slightly above the Miami-Dade County background concentration for groundwater established by DERM in the memorandum dated December 8, 2005. Iron was reported below the GCTL at monitoring well MW-3.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this assessment, contaminant concentrations were consistent with the historical data and exhibit concentrations either below the GCTL or fluctuating within the range of the Miami-Dade County background concentration for iron. As such, SCS recommends discontinuing the MOP for monitoring wells MW-2 and MW-3 and monitoring MW-1 for antimony on a semi-annual basis.

Please contact the undersigned with any questions or comments.

Respectfully Submitted,



Maria C. Giudici, P.G.
Fl. License No. 2774
SCS ENGINEERS

Brittney J. Odom
Project Professional
SCS ENGINEERS

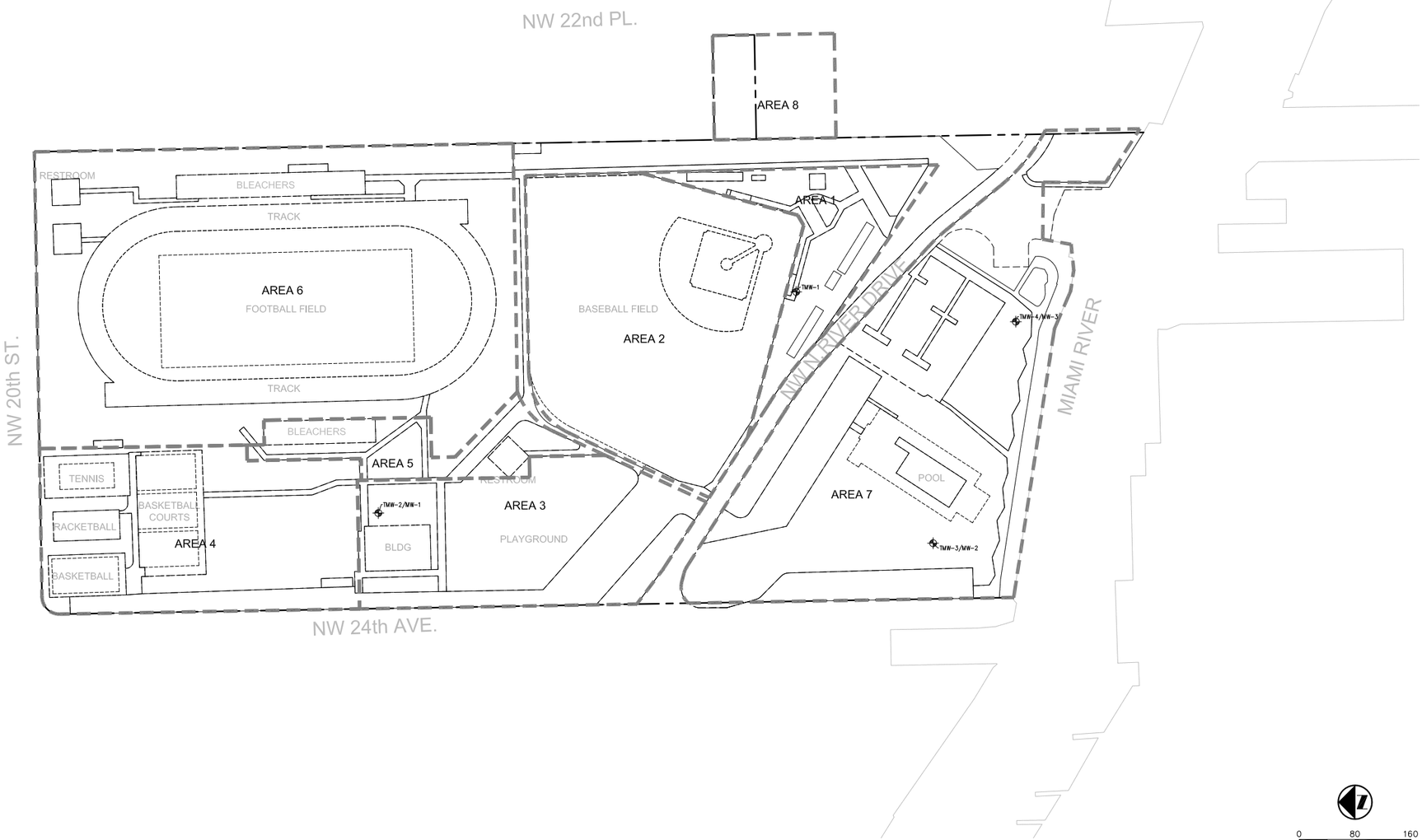
Enclosures

Figure 1 – Site Plan
Figure 2 – Groundwater Elevation Map
Figure 3 – Groundwater Analytical Summary Map

Table 1 – Groundwater Elevation Summary
Table 2 – Groundwater Analytical Summary

Attachment 1 – Regulatory Correspondence
Attachment 2 – Groundwater Sampling Logs
Attachment 3 – Laboratory Analytical Reports, Sample Chain of Custody

FIGURES



LEGEND

——·—— PROPERTY LINE

REV	DATE	DESCRIPTION	CHK. BY	LICENSE NO.

SHEET TITLE: **SITE PLAN**

PROJECT TITLE: **CURTIS PARK**
1901 NW 24th AVE.
MIAMI, FL

CLIENT: **CITY OF MIAMI**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-8105
FL CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 25172010.39 | DWN. BY: WCR | Q/A REW BY: MCP | APP. BY: EFS
DSN. BY: MCP | CHK. BY: MCP

CADD FILE:

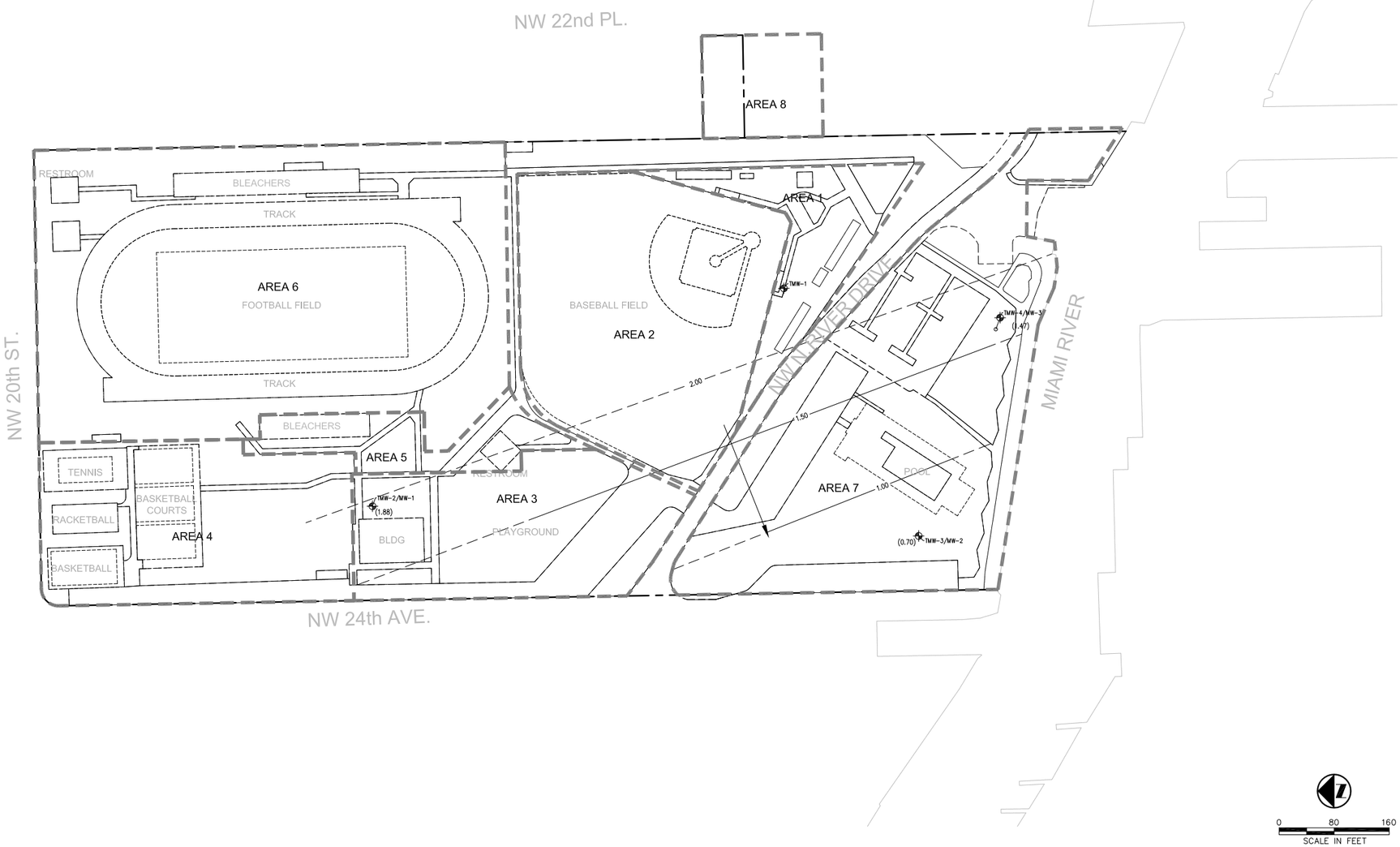
DATE: NOVEMBER 2015

SCALE: AS NOTED

DRAWING NO. **Fig. 1**

SHEET 1 of 3

M:\ESMASTER\City of Miami\Curtis Park\Drawings\Quarterly Groundwater Monitoring\FIG.01-02_SiteMap_ GROUNDWATER ELEVATION MAP - NOVEMBER 2015.dwg Nov 04, 2015 - 1:51pm Layout Name: FIG.01 - SITE PLAN By: 4010cmr



0 80 160
SCALE IN FEET

LEGEND

- PROPERTY LINE
- TEMPORARY / PERMANENT MONITORING WELL LOCATION
- 1.92 GROUNDWATER ELEVATION CONTOUR IN FEET NGVD, DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

SHEET TITLE
GROUNDWATER ELEVATION MAP

PROJECT TITLE
CURTIS PARK
1901 NW 24th AVE.
MIAMI, FL

REV	DATE	DESCRIPTION	CHK. BY	LICENSE NO.
1				
2				
3				
4				
5				
6				

CLIENT
CITY OF MIAMI

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-8105
FL CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 25623010.39
DSN. BY: MCP
DWN. BY: WCR
CHK. BY: MCP
Q/A RVW BY: MCP
APP. BY: EFS

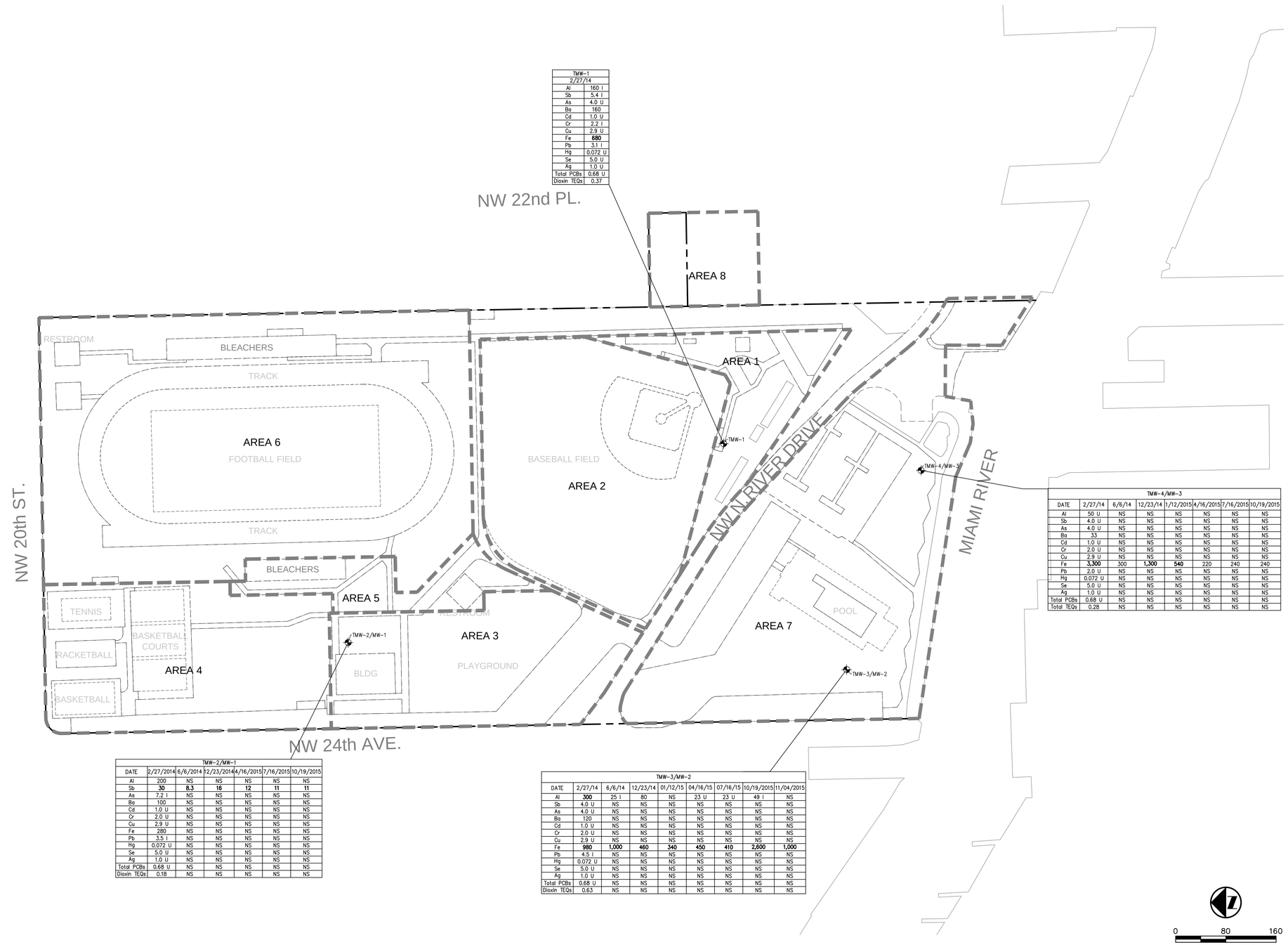
CADD FILE:

DATE: NOVEMBER 2015

SCALE: AS NOTED

DRAWING NO.
Fig. 2
SHEET 2 of 3

M:\ESMASTER\City of Miami\Curtis Park\Drawings\Quarterly Groundwater Monitoring\FIG.01-02_SiteMap_ GROUNDWATER ELEVATION MAP – NOVEMBER 2015.dwg Nov 04, 2015 – 1:46pm Layout Name: FIG.02 – GROUNDWATER ELEVATION MAP By: 4010cmr



TMW-1	
2/27/14	
Al	160 I
Sb	5.4 I
As	4.0 U
Ba	160
Cd	1.0 U
Cr	2.2 I
Cu	2.9 U
Fe	**680**
Pb	3.1 I
Hg	0.072 U
Se	5.0 U
Ag	1.0 U
Total PCBs	0.68 U
Dioxin TEQs	0.37

TMW-4/MW-3							
DATE	2/27/14	6/6/14	12/23/14	1/12/2015	4/16/2015	7/16/2015	10/19/2015
Al	50 U	NS	NS	NS	NS	NS	NS
Sb	4.0 U	NS	NS	NS	NS	NS	NS
As	4.0 U	NS	NS	NS	NS	NS	NS
Ba	33	NS	NS	NS	NS	NS	NS
Cd	1.0 U	NS	NS	NS	NS	NS	NS
Cr	2.0 U	NS	NS	NS	NS	NS	NS
Cu	2.9 U	NS	NS	NS	NS	NS	NS
Fe	**3,300**	300	**1,300**	**540**	220	240	240
Pb	2.0 U	NS	NS	NS	NS	NS	NS
Hg	0.072 U	NS	NS	NS	NS	NS	NS
Se	5.0 U	NS	NS	NS	NS	NS	NS
Ag	1.0 U	NS	NS	NS	NS	NS	NS
Total PCBs	0.68 U	NS	NS	NS	NS	NS	NS
Total TEQs	0.28	NS	NS	NS	NS	NS	NS

TMW-2/MW-1						
DATE	2/27/2014	6/6/2014	12/23/2014	4/16/2015	7/16/2015	10/19/2015
Al	200	NS	NS	NS	NS	NS
Sb	**30**	**8.3**	**16**	**12**	**11**	**11**
As	7.2 I	NS	NS	NS	NS	NS
Ba	100	NS	NS	NS	NS	NS
Cd	1.0 U	NS	NS	NS	NS	NS
Cr	2.0 U	NS	NS	NS	NS	NS
Cu	2.9 U	NS	NS	NS	NS	NS
Fe	280	NS	NS	NS	NS	NS
Pb	3.5 I	NS	NS	NS	NS	NS
Hg	0.072 U	NS	NS	NS	NS	NS
Se	5.0 U	NS	NS	NS	NS	NS
Ag	1.0 U	NS	NS	NS	NS	NS
Total PCBs	0.68 U	NS	NS	NS	NS	NS
Dioxin TEQs	0.18	NS	NS	NS	NS	NS

TMW-3/MW-2								
DATE	2/27/14	6/6/14	12/23/14	01/12/15	04/16/15	07/16/15	10/19/2015	11/04/2015
Al	**300**	25 I	80	NS	23 U	23 U	49 I	NS
Sb	4.0 U	NS	NS	NS	NS	NS	NS	NS
As	4.0 U	NS	NS	NS	NS	NS	NS	NS
Ba	120	NS	NS	NS	NS	NS	NS	NS
Cd	1.0 U	NS	NS	NS	NS	NS	NS	NS
Cr	2.0 U	NS	NS	NS	NS	NS	NS	NS
Cu	2.9 U	NS	NS	NS	NS	NS	NS	NS
Fe	**980**	**1,000**	**460**	**340**	**450**	**410**	**2,600**	**1,000**
Pb	4.5 I	NS	NS	NS	NS	NS	NS	NS
Hg	0.072 U	NS	NS	NS	NS	NS	NS	NS
Se	5.0 U	NS	NS	NS	NS	NS	NS	NS
Ag	1.0 U	NS	NS	NS	NS	NS	NS	NS
Total PCBs	0.68 U	NS	NS	NS	NS	NS	NS	NS
Dioxin TEQs	0.63	NS	NS	NS	NS	NS	NS	NS

0 80 160
SCALE IN FEET

NOTES

µg/L – micrograms per Liter
pg/L – picograms per Liter
U – Analyte was not detected at the laboratory Method Detection Limit (MDL).
I – The reported value is between the MDL and the Laboratory Practical Quantitation Limit (PQL).
Bold – Indicates an exceedence of the Groundwater Cleanup Target Level (GCTL)

LEGEND

PROPERTY LINE

TEMPORARY / PERMANENT MONITORING WELL LOCATION

TABLE

SAMPLE ID	
DATE	
Al	µg/L
Sb	µg/L
As	µg/L
Ba	µg/L
Cd	µg/L
Cr	µg/L
Cu	µg/L
Fe	µg/L
Pb	µg/L
Hg	µg/L
Se	µg/L
Ag	µg/L
Total PCBs	µg/L
Dioxin TEQs	pg/L

CLEAN UP TARGET LEVELS (µg/L)

ANALYTE	GCTL
Al	200
Sb	6
As	10
Ba	2,000
Cd	5
Cu	1,000
Fe	300/706
Pb	15
Hg	2
Se	50
Ag	100
Total PCBs	0.5
Dioxin TEQs	30

LICENSE NO.

REV	DATE	DESCRIPTION	CHK. BY
1			
2			
3			
4			
5			
6			

SHEET TITLE
GROUNDWATER ANALYTICAL SUMMARY MAP

PROJECT TITLE
CURTIS PARK
1901 NW 24th AVE.
MIAMI, FL

CLIENT
CITY OF MIAMI

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156
PH. (305) 412-8185 FAX. (305) 412-8105
FL CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09213010.39
DSN. BY: MCP
DWN. BY: WCR
CHK. BY: MCP
QA/A RVW BY: MCP
APP. BY: EFS

CADD FILE:

DATE: NOVEMBER 2015

SCALE: AS NOTED

DRAWING NO.
Fig. 3
SHEET **3** of **3**

\\MIAMI-FS01\Miami\ESMASTER\City of Miami\Curtis Park\Drawings\Quarterly Groundwater Monitoring\FIG.03 - GROUNDWATER ANALYTICAL SUMMARY MAP.dwg Nov 10, 2015 - 2:02pm Layout Name: Layout By: 4066jed

TABLES

Table 1: GROUNDWATER ELEVATION SUMMARY
Curtis Park (HWR-777)

SCS ENGINEERS

WELL NUMBER	MW-1		MW-2		MW-3	
DIAMETER. (in.)	2		2		2	
WELL DEPTH (ft)	14		14		14	
SCREEN INTERVAL (ft)	4 to 14		4 to 14		4 to 14	
TOC ELEVATION (ft)	7.08		4.46		4.83	
DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW
12/23/2014	2.15	4.93	1.26	3.20	2.14	2.69
1/12/2015	1.92	5.16	0.85	3.61	1.98	2.85
4/16/2015	1.75	5.33	0.68	3.78	1.58	3.25
7/16/2015	1.99	5.09	0.88	3.58	1.83	3.00
10/19/2015	2.64	4.44	1.54	2.92	2.55	2.28
11/4/2015	1.88	5.20	0.70	3.76	1.47	3.36

Notes:
1. TOC - Top of Casing
2. TOC Elevations reference NGVD29 (National Geodetic Vertical Datum of 1929)
3. Depth to water referenced from the north side top of the monitoring well casings

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY
CURTIS PARK (HWR-777)

Sample				
Sample Location/ Sample ID	Date Collected	Aluminum	Antimony	Iron
		(µg/L)	(µg/L)	(µg/L)
Groundwater Cleanup Target Levels		200	6	300/706*
Natural Attenuation Default Concentrations		2000	60	3000
MW-1	6-Jun-14	NS	**8.3**	NS
	23-Dec-14	NS	**16.0**	NS
	16-Apr-15	NS	**12.0**	NS
	16-Jul-15	NS	**11.0**	NS
	19-Oct-15	NS	**11.0**	NS
MW-2	6-Jun-14	25 I	NS	**1000**
	23-Dec-14	80	NS	**460**
	12-Jan-15	NS	NS	**340**
	16-Apr-15	23 U	NS	**450**
	16-Jul-15	23 U	NS	**410**
	19-Oct-15	49 I	NS	**2600**
	4-Nov-15	NS	NS	**1000**
MW-3	6-Jun-14	NS	NS	300
	23-Dec-14	NS	NS	**1300**
	12-Jan-15	NS	NS	**540**
	16-Apr-15	NS	NS	220
	16-Jul-15	NS	NS	240
	19-Oct-15	NS	NS	240

Notes -

µg/L - micrograms per liter

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

* - Miami-Dade County Background Concentrations of Iron in Groundwater memorandum dated December 8, 2005

U - Not detected at the laboratory method detection limit (MDL)

I - Estimated value, the reported value is between the MDL and the practical quantitaion limit (PQL)

Bold - Indicates an exceedance of the applicable GCTL

NS = Not Sampled

ATTACHMENT 1

REGULATORY CORRESPONDENCE

MIAMI-DADE COUNTY
Carlos A. Gimenez, Mayor

Department of Regulatory and Economic Resources
Environmental Resources Management
701 NW 1st Court, 4th Floor
Miami, Florida 33136-3912
T 305-372-6700 F 305-372-6982
miamidade.gov

July 18, 2014

CERTIFIED MAIL NO: 7013 2630 0001 2418 4282
RETURN RECEIPT REQUESTED

Alice Bravo, P.E.
Deputy City Manager - Chief of Infrastructure
City of Miami
444 SW 2nd Avenue
Miami, FL 33130

Re: Site Assessment Report Addendum (SARA) dated July 10, 2014 and submitted by SCS Consultants for the City of Miami (the City) Curtis Park (HWR-777) located at, near or in the vicinity of 1901 NW 24 Ave, Miami, Florida.

Dear Ms. Bravo:

The Department of Regulatory and Economic Resources' Division of Environmental Resources Management (DERM) has reviewed the referenced report received on July 11, 2014 and, in a letter dated July 17, 2014, approved the SARA as it relates to onsite assessment. As indicated in the SARA approval letter, based on the contaminant concentrations in groundwater at the site, groundwater monitoring is required.

The groundwater monitoring plan indicated below shall be implemented at the site. The first sampling event shall be performed within 60 days of receipt of this MOP Approval Order. Water-level measurements shall be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody, cumulative summary table of the analytical results, site map(s) illustrating the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), shall be submitted to DERM within 60 days of sample collection.

Monitoring Wells	Parameters	Frequency
MW-1	Antimony	Quarterly
MW-2	Iron and Aluminum	Quarterly
MW-3	Iron	Quarterly

The approved monitoring period shall be a minimum of one year. If contaminant levels significantly increase during the monitoring period, then the appropriate wells must be resampled within thirty (30) days of the initial sampling date to confirm levels. If the resampling results indicate that the plume is migrating or a new discharge has occurred, then additional contamination assessment and/or remediation may be required. Additionally, if the contaminant concentrations do not decrease below the appropriate criteria levels after the duration of the monitoring period, then additional monitoring, supplemental contamination assessment and/or remediation may be required.

Given that the closure option for this site is No Further Action with Conditions (NFAC) pursuant to Chapter 24, Code of Miami-Dade County, If the applicable NFAC are met at the end of the sampling period, a No Further Action with Conditions Proposal, that summarizes the sampling

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program and contains documentation to support the opinion that the cleanup objectives have been achieved, shall be submitted to DERM. The conditional closure will require that an institutional control be recorded with the deed of the property and an operating permit will also be required.

DERM shall be notified in writing a minimum of three (3) working days prior to the implementation of any sampling or field activities. Email notifications shall be directed to DERMPCD@miamidade.gov. Please include DERM file number on all correspondence.

DERM has the option to split any samples deemed necessary with the consultant or laboratory at the subject site. The consultant collecting the samples must perform field sampling work in accordance with the Standard Operating Procedures provided in Chapter 62-160, Florida Administrative Code (FAC), as amended. The laboratory analyzing the samples must perform laboratory analyses pursuant to the National Environmental Laboratory Accreditation Program (NELAP) certification requirements. If the data submitted exhibits a substantial variance from the Department split sample analysis, a complete resampling using two independent certified laboratories will be required.

Therefore, within ninety (90) days of receipt of this letter, you are hereby required to submit to DERM for review two copies of the first Quarterly Sampling Report, one paper and one electronic PDF on CD, prepared in accordance with Chapter 24, Code of Miami-Dade County. Subsequent reports must be submitted every ninety (90) days thereafter.

Failure to adhere to the items and timeframes stipulated above may result in enforcement action for this site.

If you have any questions concerning the above contact me at mayorw@miamidade.gov or Lorna Bucknor at bucknl@miamidade.gov or via telephone at (305) 372-6700.

Sincerely,

Wilbur Mayorga, P.E. Chief
Environmental Monitoring and Restoration Division

ec: Jeovanny Rodriquez, City of Miami - jeovannyrodriguez@miamigov.com
Eduardo Smith, SCS ES Consultants - ESmith@scsengineers.com
Samir Elmir, Ph.D., FDOH-Miami Dade County - Samir.Elmir@flhealth.gov
Lee Hefty, Director, DERM

ATTACHMENT 2

GROUNDWATER SAMPLING LOGS

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Curtis Park	SITE LOCATION: 1901 NW 24th Ave, Miami, FL	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 10-19-15

PURGING DATA

WELL DIAMETER (inches): 1.5	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4 feet to 14 feet	STATIC DEPTH TO WATER (feet): 4.18	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)
= (14 feet – 4.18 feet) X 0.092 gallons/foot = 0.90 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):
9	9	15:04	15:22	1.28

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)
15:18	1.0	1.0	0.07	4.18	7.15	28.04	1130	0.26 / 3.3%	3.69	Clear	None
15:20	0.14	1.14	0.07	4.18	7.15	28.02	1131	0.25 / 3.2%	3.27	Clear	None
15:22	0.14	1.28	0.07	4.18	7.14	27.98	1131	0.25 / 3.1%	3.34	Clear	None

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: Emily Vasquez / SCS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:23	SAMPLING ENDED AT: 15:24
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE+S	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-1	1	PP	250mL	HNO_3	—	<2	Antimony	APP	~200

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: Curtis Park	SITE LOCATION: 1901 NW 27th Ave, Miami, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 10-19-15

PURGING DATA

WELL DIAMETER (inches): 1.5	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4 feet to 14 feet	STATIC DEPTH TO WATER (feet): 2.76	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)
= (14 feet – feet) X 0.092 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0026 gallons/foot X 20 feet) + 0.09 gallons = 0.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 13:07	PURGING ENDED AT: 13:27	TOTAL VOLUME PURGED (gallons): 1.25

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)
13:23	1.0	1.0	0.06	2.72	7.07	28.02	627	0.12/1.5%	6.53	Clear	None
13:25	0.125	1.125	0.06	2.72	7.08	27.96	628	0.11/1.4%	6.37	Clear	None
13:27	0.125	1.25	0.06	2.72	7.08	27.92	628	0.11/1.3%	5.41	Clear	None

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: Emily VASQUEZ /SCS Engineers	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:28	SAMPLING ENDED AT: 13:29
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE+S	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	PP	250 mL	HNO3		<2	Al	APP	~200
MW-2	1	PP	250 mL	HNO3		<2	Fe	APP	~200

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: Curtis Park	SITE LOCATION: 1901 NW 27th Ave, Miami, FL	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 10-19-15

PURGING DATA

WELL DIAMETER (inches): 1.5	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4 feet to 14 feet	STATIC DEPTH TO WATER (feet): 9.92	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) = (14 feet – feet) X 0.092 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0026 gallons/foot X 20 feet) + 0.09 gallons = 0.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9	PURGING INITIATED AT: 14:00	PURGING ENDED AT: 14:40	TOTAL VOLUME PURGED (gallons): 2.20

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)
14:36	2.0	2.0	0.05	1.86	6.84	28.84	3645	0.04/0.6%	10.44	Clear	None
14:38	0.10	2.10	0.05	1.86	6.84	28.70	3630	0.04/0.6%	8.93	Clear	None
14:40	0.10	2.20	0.05	1.86	6.84	28.73	3620	0.04/0.5%	8.92	Clear	None

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: Emily Vasquez/SCS Engineers	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:41	SAMPLING ENDED AT: 14:42
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: HDPE+S	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	PP	250 mL	HNO3	—	<2	Iron	APP	~200

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

Boldly "X" this box if there is qualified data on this page.

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** *11-10-05*

Project/Site: Curtis Park Date: 10-19-2015 Meter # 2

Temperature (Quarterly) *For Date of Last Temperature Verification see* _____ *in log book* _____

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °C	% DO	Saturation mg/L (from chart)	Pass *or* Fail
										Acceptance Criteria: +/- 0.3 mg/l	
CAL ICV (CCV)		EV	10/19/15	11:09			8.67	23.67	109.5	8.482	(P) F
CAL ICV (CCV)		↓	↓	16:22			8.72	23.57	106.5	8.498	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading µmhos/cm	Pass *or* Fail
										Acceptance Criteria: +/- 5%	
CAL ICV (CCV)		EV	10/19/15	11:11	1000	11/16	SAC366			993	(P) F
CAL ICV (CCV)		↓	↓	16:23	1000	11/16	SAC366			995	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass *or* Fail
										Acceptance Criteria: +/- 0.2 SU	
CAL ICV (CCV)		EV	10/19/15	11:13	7.0	1/17	SAA546			7.04	(P) F
CAL ICV (CCV)		↓	↓	11:16	4.0	2/16	2402961			4.05	(P) F
CAL ICV (CCV)				11:20	10.0	12/16	YALS53			9.92	(P) F
CAL ICV (CCV)				16:27	7.0	1/17	SAA546			7.06	(P) F
CAL ICV (CCV)				16:30	4.0	2/16	2402961			4.09	(P) F
CAL ICV (CCV)		↓	↓	16:33	10.0	12/16	YALS53			9.89	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Maintenance: Weekly pH Slope: _____ Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Perform only in Calibrate Mode: **CAL** - Calibrate -
Perform only in Run Mode: **ICV** - Initial Calibration Verification
Perform only in Run Mode: **CCV** - Continuing Calibration Verification

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKER/MODEL#) LaMotte 2020we **INSTRUMENT #** 2

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☑ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0 C475822 Exp 6/16
Standard B 1.0 C474736 Exp 5/16
Standard C 10.0 C471805 Exp. 7/16

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
15/10/19	11:22	A	0.0	0.0	0	No	Cont	EV
↓	11:24	B	1.0	1.14	14	↓	↓	↓
	11:26	C	10.0	10.31	3.1			
	16:16	A	0.0	0.01	1			
	16:18	B	1.0	1.06	6			
	16 20	C	10.0	9.75	2.5			

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Curtis Park	SITE LOCATION: 1901 NW 27th Ave, Miami, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 11-4-2015

PURGING DATA

WELL DIAMETER (inches): 1.5	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 4 feet to 14 feet	STATIC DEPTH TO WATER (feet): 3.76	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)
= (14 feet – 3.76 feet) X 0.092 gallons/foot = 0.94 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): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 10:15	PURGING ENDED AT: 10:38	TOTAL VOLUME PURGED (gallons): 2.54

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)
10:24	1.0	1.0	0.11	3.76	7.11	28.23	620	0.25 / 3.2%	11.4	Clear	None
10:26	0.22	1.22	0.11	3.76	7.10	27.19	617	0.22 / 2.8%	7.83	Clear	None
10:28	0.22	1.44	0.11	3.76	7.09	27.17	618	0.20 / 2.6%	7.73	Clear	None
10:30	0.22	1.66	0.11	3.76	7.13	28.22	618	0.16 / 2.1%	5.84	Clear	None
10:32	0.22	1.88	0.11	3.77	7.14	28.35	616	0.13 / 1.7%	5.24	Clear	None
10:34	0.22	2.1	0.11	3.77	7.14	28.24	615	0.11 / 1.4%	4.55	Clear	None
10:36	0.22	2.32	0.11	3.77	7.13	28.10	617	0.10 / 1.2%	4.19	Clear	None
10:38	0.22	2.54	0.11	3.77	7.12	28.12	615	0.07 / 0.9%	3.54	Clear	None

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: Emily Vasquez /SCS Engineers	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:39	SAMPLING ENDED AT: 10:40
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	TUBING MATERIAL CODE: HDPE/S	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~~ (EV)	~~1~~	~~PP~~	~~250 mL~~	~~HNO3~~			~~Al~~	~~APP~~	
MW-2	1	PP	250 mL	HNO3	—	<2	Fe	APP	~200

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

Boldly "X" this box if there is qualified data on this page.

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** 11-10-05

Project/Site: Curtis Park Date: 11-4-2015 Meter # YSI #2

Temperature (Quarterly) *For Date of Last Temperature Verification see in log book*

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °C	% DO	Saturation mg/L (from chart)	Pass or Fail
										Acceptance Criteria: +/-0.3mg/l	
CAL ICV (CCV)		EV	11/4/15	9:15			8.02	26.37	99.6	8.070	(P) F
CAL ICV (CCV)		↓	↓	11:22			7.81	29.30	102.1	7.651	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading µmhos/cm	Pass or Fail
										Acceptance Criteria: +/- 5%	
CAL ICV (CCV)		EV	11/4/15	9:18	1000	9/30/16	5092214			985	(P) F
CAL ICV (CCV)		↓	↓	11:24	1000	9/30/16	5092214			974	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass or Fail
										Acceptance Criteria: +/- 0.2 SU	
CAL ICV (CCV)		EV	11/4/15	9:23	7.0	5/30/17	5051299			7.18	(P) F
CAL ICV (CCV)		↓	↓	9:26	4.0	2/28/16	4021866			4.06	(P) F
CAL ICV (CCV)				9:30	10.0	4/30/17	50331108			10.14	(P) F
CAL ICV (CCV)				11:27	7.0	5/30/17	5051299			7.19	(P) F
CAL ICV (CCV)				11:30	4.0	2/28/16	4021866			4.06	(P) F
CAL ICV (CCV)				11:33	10.0	4/30/17	50331108			10.06	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Maintenance: Weekly pH Slope: _____ Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Perform only in Calibrate Mode:
Perform only in Run Mode:
Perform only in Run Mode:

CAL - Calibrate -
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKER/MODEL#) Lamotte 2020we **INSTRUMENT #** 2

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☑ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0 C475822 Exp 6/16
Standard B 1.0 C474736 Exp 5/16
Standard C 100.0 C471805 Exp 7/16

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT. CONT)	SAMPLER INITIALS
15/11/04	9:09	A	0.0	0.02	2	No	Cont	EV
↓	9:11	B	1.0	1.07	7	No	Cont	EV
	9:13	C	100.0	94.3	5.7	No	Cont	EV
	11:15	A	0.0	0.03	3	No	Cont	EV
	11:17	B	1.0	1.01	1	No	Cont	EV
	11:18	C	100.0	93.8	6.2	No	Cont	EV

ATTACHMENT 3

LABORATORY ANALYTICAL REPORTS, SAMPLE CHAIN OF CUSTODY

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: 660-69949-1
Client Project/Site: Curtis Park

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Ms. Brittney Odom

Authorized for release by:
11/2/2015 12:54:38 PM

Matt Jones, Project Manager I
(850)878-3994
matt.jones@testamericainc.com

Table of Contents

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.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Job ID: 660-69949-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-69949-1

Comments
No additional comments.

Receipt
The samples were received on 10/21/2015 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

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

Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Client Sample ID: MW-1 — Lab Sample ID: 660-69949-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	11		5.0	0.50	ug/L	1		6020A	Total Recoverable

Client Sample ID: MW-2 — Lab Sample ID: 660-69949-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	49	I	100	18	ug/L	1		6020A	Total Recoverable
Iron	2600		100	25	ug/L	1		6020A	Total Recoverable

Client Sample ID: MW-3 — Lab Sample ID: 660-69949-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	240		100	25	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Client Sample ID: MW-1
Date Collected: 10/19/15 15:23
Date Received: 10/21/15 09:05

Lab Sample ID: 660-69949-1
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	11		5.0	0.50	ug/L		10/29/15 09:23	10/30/15 14:51	1

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Client Sample ID: MW-2
Date Collected: 10/19/15 13:28
Date Received: 10/21/15 09:05

Lab Sample ID: 660-69949-2
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	49	I	100	18	ug/L		10/29/15 09:23	10/30/15 15:26	1
Iron	2600		100	25	ug/L		10/29/15 09:23	10/30/15 15:26	1

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Client Sample ID: MW-3
Date Collected: 10/19/15 14:41
Date Received: 10/21/15 09:05

Lab Sample ID: 660-69949-3
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	240		100	25	ug/L		10/29/15 09:23	10/30/15 15:33	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-407990/1-A
Matrix: Water
Analysis Batch: 408405

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 407990

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18	U	100	18	ug/L		10/29/15 09:23	10/30/15 14:37	1
Antimony	0.50	U	5.0	0.50	ug/L		10/29/15 09:23	10/30/15 14:37	1
Iron	25	U	100	25	ug/L		10/29/15 09:23	10/30/15 14:37	1

Lab Sample ID: LCS 680-407990/2-A
Matrix: Water
Analysis Batch: 408405

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 407990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5000	4740		ug/L		95	75 - 125
Antimony	50.0	49.5		ug/L		99	75 - 125
Iron	5000	4860		ug/L		97	75 - 125

Lab Sample ID: 660-69949-1 MS
Matrix: Water
Analysis Batch: 408405

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 407990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	29	I	5000	4810		ug/L		96	75 - 125
Antimony	11		50.0	60.3		ug/L		98	75 - 125
Iron	51	I	5000	4960		ug/L		98	75 - 125

Lab Sample ID: 660-69949-1 MSD
Matrix: Water
Analysis Batch: 408405

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 407990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	29	I	5000	4760		ug/L		95	75 - 125	1	20
Antimony	11		50.0	60.3		ug/L		98	75 - 125	0	20
Iron	51	I	5000	4890		ug/L		97	75 - 125	1	20

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Metals

Prep Batch: 407990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69949-1	MW-1	Total Recoverable	Water	3005A	
660-69949-1 MS	MW-1	Total Recoverable	Water	3005A	
660-69949-1 MSD	MW-1	Total Recoverable	Water	3005A	
660-69949-2	MW-2	Total Recoverable	Water	3005A	
660-69949-3	MW-3	Total Recoverable	Water	3005A	
LCS 680-407990/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-407990/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 408405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69949-1	MW-1	Total Recoverable	Water	6020A	407990
660-69949-1 MS	MW-1	Total Recoverable	Water	6020A	407990
660-69949-1 MSD	MW-1	Total Recoverable	Water	6020A	407990
660-69949-2	MW-2	Total Recoverable	Water	6020A	407990
660-69949-3	MW-3	Total Recoverable	Water	6020A	407990
LCS 680-407990/2-A	Lab Control Sample	Total Recoverable	Water	6020A	407990
MB 680-407990/1-A	Method Blank	Total Recoverable	Water	6020A	407990

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Client Sample ID: MW-1

Lab Sample ID: 660-69949-1

Date Collected: 10/19/15 15:23

Matrix: Water

Date Received: 10/21/15 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			407990	10/29/15 09:23	KMN	TAL SAV
Total Recoverable	Analysis	6020A		1	408405	10/30/15 14:51	BJB	TAL SAV

Client Sample ID: MW-2

Lab Sample ID: 660-69949-2

Date Collected: 10/19/15 13:28

Matrix: Water

Date Received: 10/21/15 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			407990	10/29/15 09:23	KMN	TAL SAV
Total Recoverable	Analysis	6020A		1	408405	10/30/15 15:26	BJB	TAL SAV

Client Sample ID: MW-3

Lab Sample ID: 660-69949-3

Date Collected: 10/19/15 14:41

Matrix: Water

Date Received: 10/21/15 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			407990	10/29/15 09:23	KMN	TAL SAV
Total Recoverable	Analysis	6020A		1	408405	10/30/15 15:33	BJB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-16
Florida	NELAP	4	E84282	06-30-16
Georgia	State Program	4	905	06-30-16
USDA	Federal		P330-14-00159	05-07-17

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-16

Laboratory: TestAmerica Tallahassee

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-16

Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-69949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-69949-1	MW-1	Water	10/19/15 15:23	10/21/15 09:05
660-69949-2	MW-2	Water	10/19/15 13:28	10/21/15 09:05
660-69949-3	MW-3	Water	10/19/15 14:41	10/21/15 09:05

TestAmerica Tallahassee
2846 Industrial Plaza Drive

Tallahassee, FL 32301
phone 850.878.3994 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

11/2/2015

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Brittney Odom	Site Contact: Brittney Odom	Date:	COC No.
SCS Engineers	Tel/Fax: 954-253-4442	Lab Contact: Chad Bechtold	Carrier:	1 of 1 COCs
7700 North Kendall Drive	**Analysis Turnaround Time**			Sampler:
Miami, Florida 33156	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
305.412.8185 Phone	TAT if different from Below _____			Walk-in Client:
305.412.8105 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Curtis Park	☐ 1 week			
Site: 1901 NW 24th Ave, Miami, FL	☐ 2 days			Job / SDG No.:
PO # 09-M00109C-25	☐ 1 day			

Loc: 660
69949

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Antimony (6010)	Iron (6010)	Aluminum (6010)	Sample Specific Notes:
MW-1	10/19/15	15:23	C	GW	1			X			Run the ones
MW-2	"	13:28	"	GW	1			X	X	X	that are crossed
MW-3	↓	14:41	↓	GW	1			X			off as well

660-69949 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

3.6 | 3.7

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: -0.2 Corr'd: -0.3	Therm ID No.:
Relinquished by: Emily Vasquez	Company: SCS Engineers	Date/Time: 10/22/15 1100	Received by:	Company: TA	Date/Time: 10/20/15 1100
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA TPA	Date/Time: 10/21/15 0820
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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: 660-70263-1
Client Project/Site: Curtis Park
Revision: 1

For:
SCS ES Consultants
7700 N. Kendall Drive, Suite 300
Miami, Florida 33156

Attn: Ms. Brittney Odom

Authorized for release by:
11/10/2015 10:36:43 AM

Matt Jones, Project Manager I
(850)878-3994
matt.jones@testamericainc.com

Table of Contents

Definitions/Glossary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Qualifiers

Metals

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Case Narrative

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Job ID: 660-70263-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-70263-1

Comments
No additional comments.

Receipt
The sample was received on 11/5/2015 at 9:10 AM. The sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

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

Detection Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Client Sample ID: MW-2

Lab Sample ID: 660-70263-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1000		200	50	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Client Sample ID: MW-2
Date Collected: 11/04/15 10:39
Date Received: 11/05/15 09:10

Lab Sample ID: 660-70263-1
Matrix: Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1000		200	50	ug/L		11/06/15 07:52	11/06/15 13:13	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-163097/1-A
Matrix: Water
Analysis Batch: 163100

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163097

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	50	U	200	50	ug/L		11/06/15 07:52	11/06/15 13:03	1

Lab Sample ID: LCS 660-163097/2-A
Matrix: Water
Analysis Batch: 163100

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163097

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			1000	1010		ug/L		101	80 - 120		

Lab Sample ID: 660-70263-1 MS
Matrix: Water
Analysis Batch: 163100

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 163097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	1000		1000	2000		ug/L		99	80 - 120		

Lab Sample ID: 660-70263-1 MSD
Matrix: Water
Analysis Batch: 163100

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 163097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	1000		1000	1970		ug/L		96	80 - 120	2	20

QC Association Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Metals

Prep Batch: 163097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70263-1	MW-2	Total Recoverable	Water	3005A	
660-70263-1 MS	MW-2	Total Recoverable	Water	3005A	
660-70263-1 MSD	MW-2	Total Recoverable	Water	3005A	
LCS 660-163097/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-163097/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 163100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70263-1	MW-2	Total Recoverable	Water	6010B	163097
660-70263-1 MS	MW-2	Total Recoverable	Water	6010B	163097
660-70263-1 MSD	MW-2	Total Recoverable	Water	6010B	163097
LCS 660-163097/2-A	Lab Control Sample	Total Recoverable	Water	6010B	163097
MB 660-163097/1-A	Method Blank	Total Recoverable	Water	6010B	163097

Lab Chronicle

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Client Sample ID: MW-2
Date Collected: 11/04/15 10:39
Date Received: 11/05/15 09:10

Lab Sample ID: 660-70263-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			163097	11/06/15 07:52	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163100	11/06/15 13:13	GAF	TAL TAM

Laboratory References:

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

Certification Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Laboratory: TestAmerica Tampa

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E84282	06-30-16

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-16
Georgia	State Program	4		06-30-16
Louisiana	NELAP	6	30663	06-30-16
Texas	NELAP	6	T104704459-15-8	03-31-16
USDA	Federal		P330-08-00158	10-14-17

Method Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: SCS ES Consultants
Project/Site: Curtis Park

TestAmerica Job ID: 660-70263-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-70263-1	MW-2	Water	11/04/15 10:39	11/05/15 09:10

Chain of Custody Record

TestAmerica Tallahassee
2846 Industrial Plaza Drive
Tallahassee, FL 32301
phone 850.878.3994 fax

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTI

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, In

Client Contact	Project Manager: Brittney Odom	Site Contact: Brittney Odom	Date:	COC No:
SCS Engineers	Tel/Fax: 954-253-4442	Lab Contact: Chad Bechtold	Carrier:	1 of 1 COCs
7700 North Kendall Drive	Analysis Turnaround Time			Sampler:
Miami, Florida 33156	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
305.412.8185 Phone	TAT if different from Below			Walk-in Client:
305.412.8105 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Curtis Park	☐ 1 week			
Site: 1901 NW 24th Ave, Miami, FL	☐ 2 days			Job / SDG No.: 09213010.39
PR # 4635	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Antimony (6010)	Iron (6010)	Aluminum (6010)	Sample Specific Notes:
MW-2	11/4/15	10.39	G	GW	1				X		

Loc: 660
70263

660-70263 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

	Company	Date/Time		Company	Date/Time
Relinquished by:	SCS	11/4/15 1520	Received by:		11/4/15 1520
Relinquished by:			Received by:	TPA	11-5-15 @ 0910
Relinquished by:			Received in Laboratory by:		

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/20

3.6/3.7 a-09

11/10/2015