ATKINS

August 19, 2015

Mr. Matthew Preston, P.E.
Project Management Office
Southwest Florida Water Management District
7601 Highway 301 North, Building 1
Tampa, FL 33637

Re: **Review of 1st Quarter Water Quality Sampling Results**
June 2015 Sampling Event, Sawgrass Lake Site Restoration Project
Southwest Florida Water Management District
3200 Gandy Boulevard, St. Petersburg, FL 33702
FDEP Facility ID # COM_301769

Dear Mr. Preston:

At the request of the Southwest Florida Water Management District (the District), Atkins is presenting this review of the results of the first quarterly sampling event (June 2015) for the facility referenced above. This document is designed to comply with the requirements of Sections 8.8 and 8.9 of the Remedial Action Plan (RAP), dated April 2007, and the letter from FDEP (Gary Millington, P.E.) to the District (Jennette Seachrist, P.E.), dated July 8, 2014, regarding water quality monitoring at the above-referenced site.

BACKGROUND

A full description of the site location, physical description of the site, and a more detailed discussion of the site history are provided in Section 2.0 of the RAP, dated April 2007. A full description of the lead shot remediation activities performed at this site is provided in the Remediation Completion Report, dated May 2014. What follows is a brief summary.

The Sawgrass Lake Site Restoration Project occupies a portion of the Sawgrass Lake Water Management Area (WMA), which is a largely wetland area owned by the District and located in Pinellas County, FL. From the 1930s until 2004, the Skyway Trap and Skeet Club (Skyway Gun Club), formerly the Lealman Rod and Gun Club, operated a trap and skeet shooting range, which included the use of lead shot. During that time, the western portion of the Sawgrass Lake WMA received lead shot because it was used as the shot drop zone.

Beginning in 1999, multiple studies of the soil, sediment, surface water, and groundwater of the Sawgrass Lake WMA were performed. These studies included sampling and laboratory analytical testing, which confirmed that the soil, sediment, surface water, and groundwater in the western

portion of the Sawgrass Lake site (down-range of the gun club) had been adversely impacted by the lead shot deposited in that area. By 2004, the contamination assessment investigations of the Sawgrass Lake site were largely completed. Elevated concentrations of lead (and some other metals, such as arsenic and antimony) were noted in the soil, sediments, and groundwater of the shot drop zone and areas immediately adjacent to the shot drop zone. In 2004, he Skyway Gun Club entered into an agreement with the District and FDEP, which prohibited the continued trespassing of lead-containing shot onto the District's property.

From 2005 to 2007, the District completed a RAP, which was submitted to FDEP in April 2007. The RAP recommended the excavation and treatment of the lead-impacted soils and sediments from the upland and wetland areas down-range of the Skyway Gun Club. The RAP was approved by the FDEP in December 2007. From 2007 through 2010, the District developed the plans for restoration of the site, including excavation and treatment of lead-impacted media. From 2011 through 2014, the remediation activities recommended in the RAP, as well as additional site restoration activities, were completed by Woodruff & Sons, Inc., the District's construction contractor. The District submitted a Remediation Completion Report to the FDEP in May 2014, which was approved by the FDEP on July 8, 2014. The Remediation Completion Report recommended water quality monitoring at the site, in accordance with Sections 8.8 and 8.9 of the RAP. In the July 8, 2014 letter, the FDEP agreed that remediation of the site was complete, but that water quality monitoring was required in accordance with the RAP.

Section 8.8 of the RAP indicated that four monitoring wells would be installed in the western portion of the District property and would be sampled quarterly (for one year) for certain metals and Total Dissolved Solids (TDS) parameters. The four monitoring wells were installed at the site in 2015. Similarly, Section 8.9 of the RAP indicated that samples of surface water would be collected on a quarterly basis. The surface water samples would be collected from three locations in the lake and one location in Channel 3 upstream of the project area. The surface water samples would be collected quarterly for one year and would be analyzed for lead, hardness, phosphorus, and nitrogen. After one year, the data from the groundwater and surface water sampling programs would be evaluated, and a decision would be made regarding continued monitoring.

This report presents the results of the first quarter of groundwater and surface water sampling at the Sawgrass Lake Site Restoration Project. The groundwater and surface water sampling points are illustrated in **Figure 1**.

FIRST QUARTERLY SAMPLING EVENT (JUNE 2015)

The first quarterly sampling event was conducted on June 11 and June 12, 2015. Groundwater and surface water samples were collected during this event. The groundwater and surface water samples were collected in general accordance with the Florida Department of Environmental

Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection was performed by Atkins personnel, and analysis was performed by Pace Analytical Services, Inc. (Pace). Pace is a NELAC-certified laboratory.

At the time the RAP was prepared, there were five monitoring wells on the project site property (MW-1, MW-2, MW-3, MW-4, and MW-10). All were properly abandoned in 2011, at the beginning of the restoration project, since they would be destroyed by the remediation/restoration activities. After the remediation and restoration activities were completed in 2015, four of the wells were replaced with MW-1R, MW-2R, MW-3R, and MW-4R. Due to the location of the berm, the realignment of the site access road, and the creation of a wetland that encompassed a portion of the former site road, the new (replacement) wells are not located in the exact same locations as the corresponding original wells. The replacement wells are located north, west, or east of the original wells, based on changes to the alignment of the new site access road. MW-10 was not replaced, as that area is now an inaccessible wetland. Groundwater samples were collected from MW-1R, MW-2R, MW-3R, and MW-4R on June 11, 2015.

Groundwater Sample Collection Methodology

Prior to sampling the monitoring wells, each well was purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of one to three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin. The samples were named using a naming convention that consisted of Sawgrass Lake (SL), the well identification number (for example, MW-1R), and the sampling month (0615, in this case). For example, the sample from MW-1R was labeled "SLMW-1R-0615". Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. The groundwater sampling logs and field equipment calibration logs are provided in **Attachment A**.

Each well was sampled for total arsenic, dissolved arsenic, total lead, dissolved lead, calcium hardness, magnesium hardness, total hardness, and TDS. A duplicate sample was collected from MW-1R. All of the samples were placed in laboratory-prepared containers, placed on ice, and carried to Pace for analysis of the analytes listed above.

Surface Water Sample Collection Methodology

Four sampling locations were selected based on compliance with the RAP and water depths within the lake. The first sample location was in the upland cut canal to the south and the remaining three samples were taken from the southwest area of the lake. The samples were named using a naming convention that consisted of Sawgrass Lake (SL) and the surface water location identification

number (for example, SW-1) and the depth at which the sample was collected (for example, -2). The process consisted of collecting three water samples at the canal sampling locations and four samples at the three locations within the lake. Samples were collected based on water depth, including a surface, one-foot, mid-depth and bottom sample. Samples were collected using a Kemmerer water sampler (Figure1). The device is lowered into the water column to the desired depth, then a weight is dropped down the main line activating two latches which close the outside doors and seal the sample inside the tube without being contaminated by other water.

Each sample was tested for Calcium, Lead, Magnesium, Nitrogen (Kjeldahl, Total), Nitrogen (NO_2 plus NO_3), Phosphorous (Total as P), Total Hardness as $CaCO_3$, and Total Nitrogen. All of the samples were placed in laboratory-prepared containers, placed on ice, and delivered to Pace for analysis of the analytes listed previously. The surface water field sampling logs are provided in **Attachment B**.

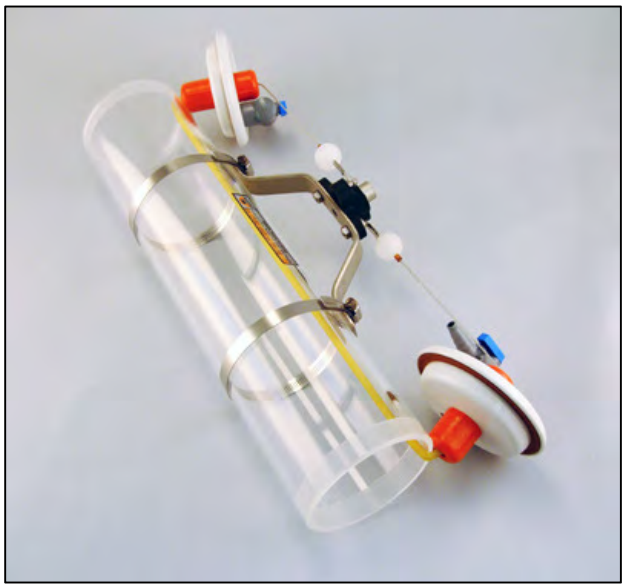

Figure 1. Typical Kemmerer water sampling device.

FIRST QUARTERLY SAMPLING EVENT (JUNE 2015) RESULTS

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the four monitoring wells. The depth to groundwater ranged from 2.82 feet below the TOC at MW-1R to 3.28 feet below the TOC at MW-3R. As the wells are flush-mounted, the TOC elevation is similar to the ground surface elevation. The layout of the monitoring wells parallel to the shoreline of the recently-created open-water wetland area did not lend itself to preparation of a credible groundwater contour map (based solely on the four monitoring wells). It is assumed that the groundwater flow direction is toward the open-water wetland area immediately east across the access road, and ultimately towards Sawgrass

Lake. The groundwater flow direction can be assumed to be eastward, towards Sawgrass Lake, which is consistent with previous studies.

Sampling Results

A description of the detections in the groundwater and surface water is presented below.

Groundwater Analytical Results

A summary of the groundwater analytical results is presented in **Table 1**, and the laboratory analytical reports are provided in **Attachment C**. **Figure 2** illustrates the June 2015 concentrations of arsenic, dissolved arsenic, lead, dissolved lead, and TDS on a map of the project site. **Table 1** also provides the corresponding groundwater analytical results from the original monitoring wells for the period from 2000 to 2006.

The concentrations of all of the parameters analyzed in the groundwater were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapters 62-550 and 62-777 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS. There were four analytes detected at concentrations that did not comply with their standards – pH, arsenic, lead, and TDS. TDS and pH have SDWS criteria, while the criteria for arsenic and lead are provided as MCLs in Chapter 62-550 FAC. A description of the detection patterns with these four analytes is described below.

- pH - The SDWS for pH is any value within the range of 6.5 to 8.5. The pH value at MW-2R (with a reading of 6.44) was slightly less than the standard range of 6.5 (see **Attachment B**). The pH readings at the other three wells were within the standard range.

- Arsenic –The standard (MCL) for arsenic is 0.01 milligrams per liter (mg/L). The total arsenic concentration in MW-3R (0.0324 mg/L) exceeded the standard. The dissolved arsenic concentration at this monitoring well was consistent with the total arsenic concentration, which suggested that groundwater turbidity was not affecting the arsenic concentrations. As shown on **Table 1**, elevated arsenic concentrations had historically been detected at MW-3, which was located in the vicinity of existing well MW-3R. Arsenic was not detected in the other wells during June 2015.

- Lead –The standard (MCL) for lead is 0.015 mg/L. The total lead concentration in MW-3R (0.018 mg/L) slightly exceeded the standard. The dissolved lead concentration at MW-3R (0.0137 mg/L) was slightly less than the standard. Lead was not detected in the other

wells. As shown on **Table 1**, elevated lead concentrations had not previously been detected at MW-3, but elevated lead concentrations had been detected at other wells (such as MW-1 and MW-4).

- TDS - The SDWS for TDS is 500 mg/L. The TDS concentrations in the samples collected at all four monitoring wells exceeded the standard. The TDS concentrations ranged from 801 mg/L at MW-2R to 2,280 mg/L at MW-1R. As shown in **Table 1**, the TDS concentrations in the existing monitoring wells are considerably higher than in the corresponding former wells (sampled in 2006).

Surface Water Analytical Results

A summary of the surface water analytical results is presented in **Table 2**, and the Pace Laboratory analytical report is provided in **Attachment D**. **Table 3** presents a summary of the field measurements collected by Atkins staff with the YSI sonde including: temperature, specific conductivity, salinity, pH, dissolved oxygen (total and %), and turbidity. The data was collected on June 12, 2015 and 0.05 inches of rain was observed the previous day at the St. Pete – Clearwater Airport. Water was discharging over top of both weirs and hydrilla was matted on the surface at sample locations 1, 2 & 3. Also of note is that the contractor still had the box culverts blocked, limiting flow from the canals into the filter marsh. **Figure 3** illustrates the June 2015 mean concentrations of lead, hardness, total phosphorus and total nitrogen on a map of the project site. **Table 2** also provides the corresponding analytical results from the original surface water sampling on April 12, 2007.

There were several analytes tested for in the surface water samples. The concentration of every analyte that was detected in the surface water sample was compared to the FDEP surface water quality standards (if a standard existed for that analyte) found in Chapter 62-302, FAC and mean values recorded from pre-construction bench scale sampling.

- Lead – the surface water criteria for lead was identified as being ≤8.68 µg/L. All of the surface water samples resulted in readings less than the Laboratory Method Detection Limit (MDL) resulting in no lead detection. The mean value was measured at 10 µg/L prior to construction.

- Total Phosphorus - two samples collected at SLSW-1 reported readings of 140 µg/L and 190 µg/L, therefore exceeding the pre-construction lake average of 102 µg/L.

- Total Nitrogen – sample values ranged from low of 600 µg/L in the lake to a high of 1500 µg/L in the canal portion of the project.

- Nitrogen, NO_2 plus NO_3 – the bench scale mean value was measured at an average of 32.1 µg/L in 2007. Three samples exceeded the average including two samples at SLSW-1 (44 µg/L and 46 µg/L) and one sample SLSW-3 (36 µg/L).

- Nitrogen, Kjeldahl, Total – all of the samples collected during June 2015 were below the pre-construction mean of 7,863 µg/L. The collected samples ranged from 550 µg/L to 1,500 µg/L.

- Hardness as $CaCO_3$ – collected values ranged from 117,000 µg/L to 189,000 µg/L which were all below the April 2007 mean value of 220,000 µg/L.

- Calcium - collected values ranged from 40,400 µg/L to 69,700 µg/L which were all below the previous mean value of 75,500 µg/L.

- Magnesium - collected values ranged from 3,040 µg/L to 4,170 µg/L which were all below the previous mean value of 7,813 µg/L.

- pH – The SDWS for pH is any value within the range of 6.5 to 8.5. With the exception of a 6.49 pH reading at SLSW-1-1, all of the other pH readings at each measured depth at every sampling location were within the accepted standard range.

- Dissolved Oxygen - concentrations of 1.82 mg/L and 1.37 mg/L were measured at location SLSW-1-1 and SLSW-1-3, respectively, which are less than the surface water criteria of ≥5 mg/L. It should be noted that SLSW-1 is located in the North/South canal adjacent to the larger lake body. None of the field measured samples were out of compliance with surface water criteria at the other three surface water sampling locations.

- Salinity –values ranges from 0.16 ppt to 0.18 ppt with little variation between depth and location.

- Specific Conductivity – the field measurements collected with the YSI sonde ranged from a low of 342 µS/cm in the canal to high of 381 µS/cm in the lake.

- Turbidity – values at each site were very consistent between sample locations with a small range from 7.3 NTU to 8.9 NTU.

- Temperature (water) – readings increased gradually between morning and afternoon sampling. The initial water temperature was 27.39 °C in the morning and a high of 29.45 °C in the afternoon.

SUMMARY AND CONCLUSIONS

The results of the first quarterly sampling event at the Sawgrass Lake Site Restoration Project were generally consistent with the results of previous (2000 to 2007) sampling events, with some exceptions, as discussed below.

There were four analytes detected in the groundwater that did not comply with their regulatory standards: pH, arsenic, lead, and TDS were detected in the groundwater at concentrations in excess of the regulatory criteria. The low pH finding (at MW-2R) and the slightly elevated lead concentrations (at MW-3R) occurred at only one monitoring well each, and these wells can reasonably be expected to achieve compliance with water quality criteria (regarding these parameters) during the upcoming sampling events. The arsenic concentration at MW-3R was consistent with previous sampling events where elevated arsenic concentrations had been detected. The significantly elevated TDS concentrations detected in all four monitoring wells may be the result of the recent site remediation/restoration activities implemented beginning in 2011, as they have no historical precedent.

There were two analytes measured in the Sawgrass Lake surface water that exceeded the mean bench scale readings from April 12, 2007. The Nitrogen, NO_2 plus NO_3 was elevated at three sample locations (SLSW-1-0, SLSW-1-1, and SLSW-3-0) and were primarily at the top of the of the water column. Total Phosphorus had two samples (SLSW-1-1 and SLSW-1-2) with readings above the bench scale data from 2007. Both of the Phosphorous exceedances were located in the canal portion of the project. All of the samples were tested for lead and every sample returned results below the laboratory MDL which indicates all test results are below the mean bench scale value of 10 µg/L. The total hardness data collected revealed significantly lower readings in the surface water compared to the values determined from the ground water sampling.

Atkins recommends that the analytical results in future sampling events be evaluated closely for any developing trends. After three more quarters of groundwater monitoring and surface water sampling, a decision will be made regarding continued monitoring. At that time, a decision will also be made to determine whether the site owner should pursue a Site Rehabilitation Completion Order *with Conditions* or *without Conditions*.

If you have any questions regarding the information presented in this report, please contact us at (813) 477-7275 or bradley.bayne@atkinsglobal.com or bryan.flynn@atkinsglobal.com.

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FIGURES

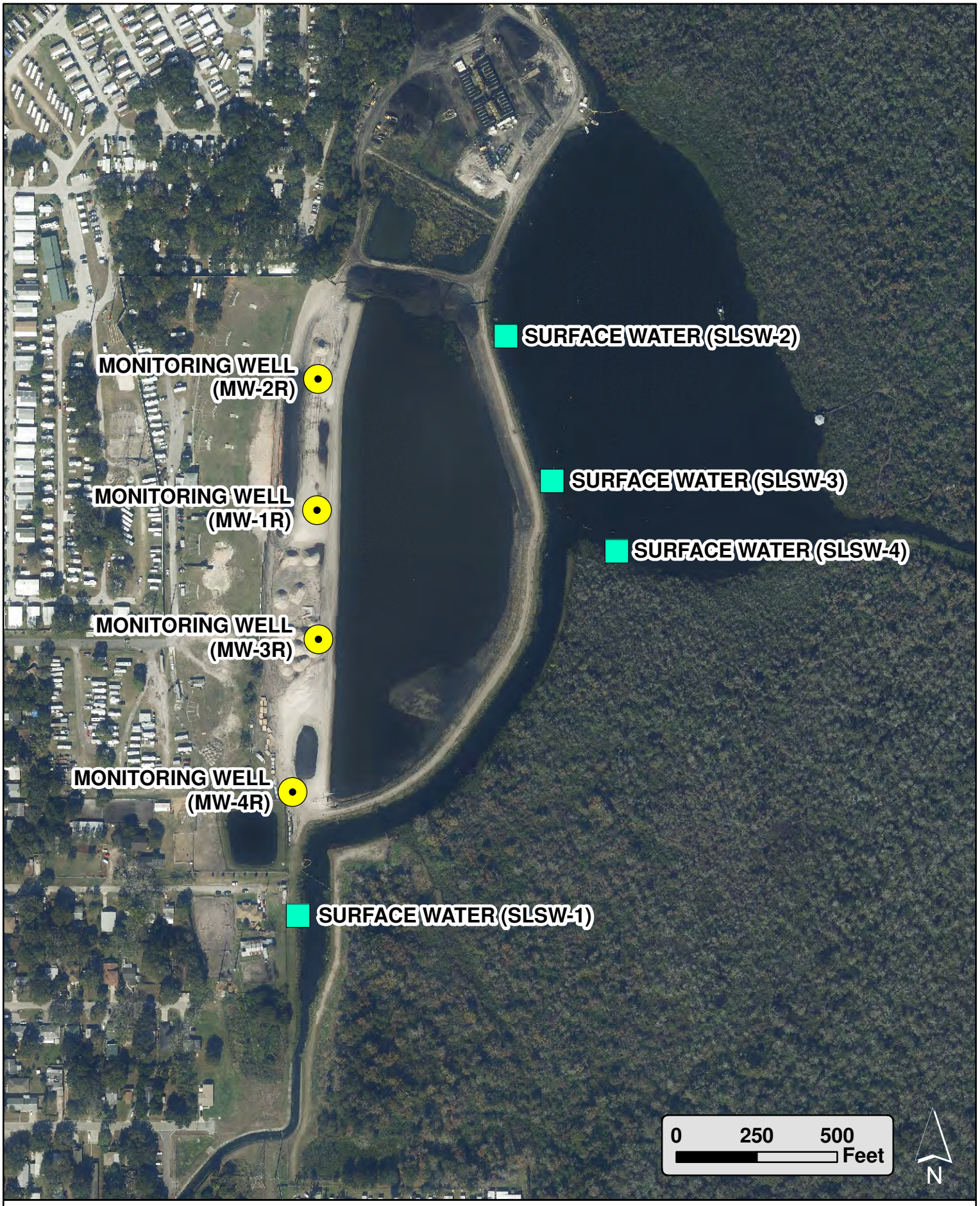

FIGURE 1. GROUNDWATER AND SURFACE WATER SAMPLING LOCATIONS

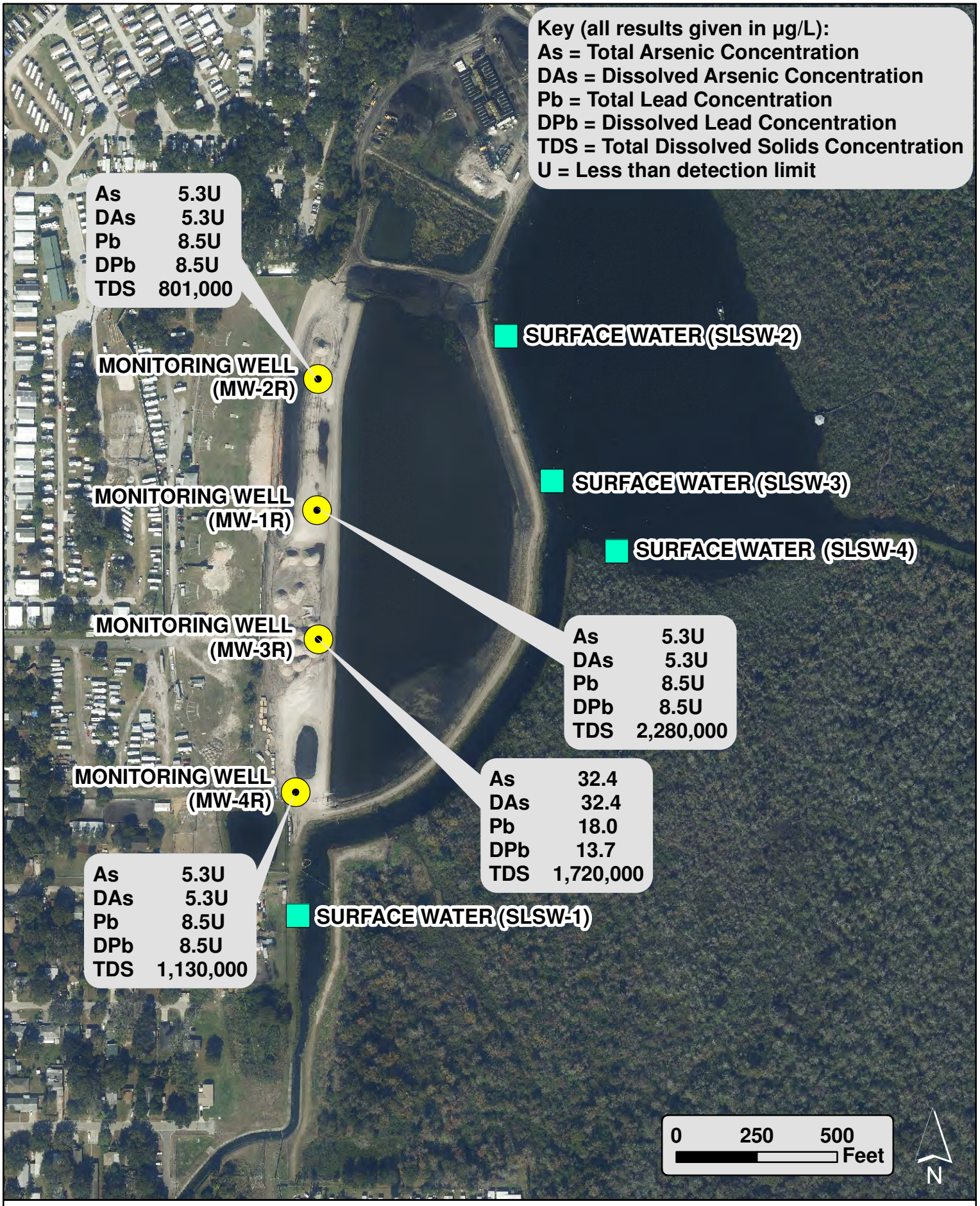

FIGURE 2. JUNE 2015 GROUNDWATER SAMPLING RESULTS

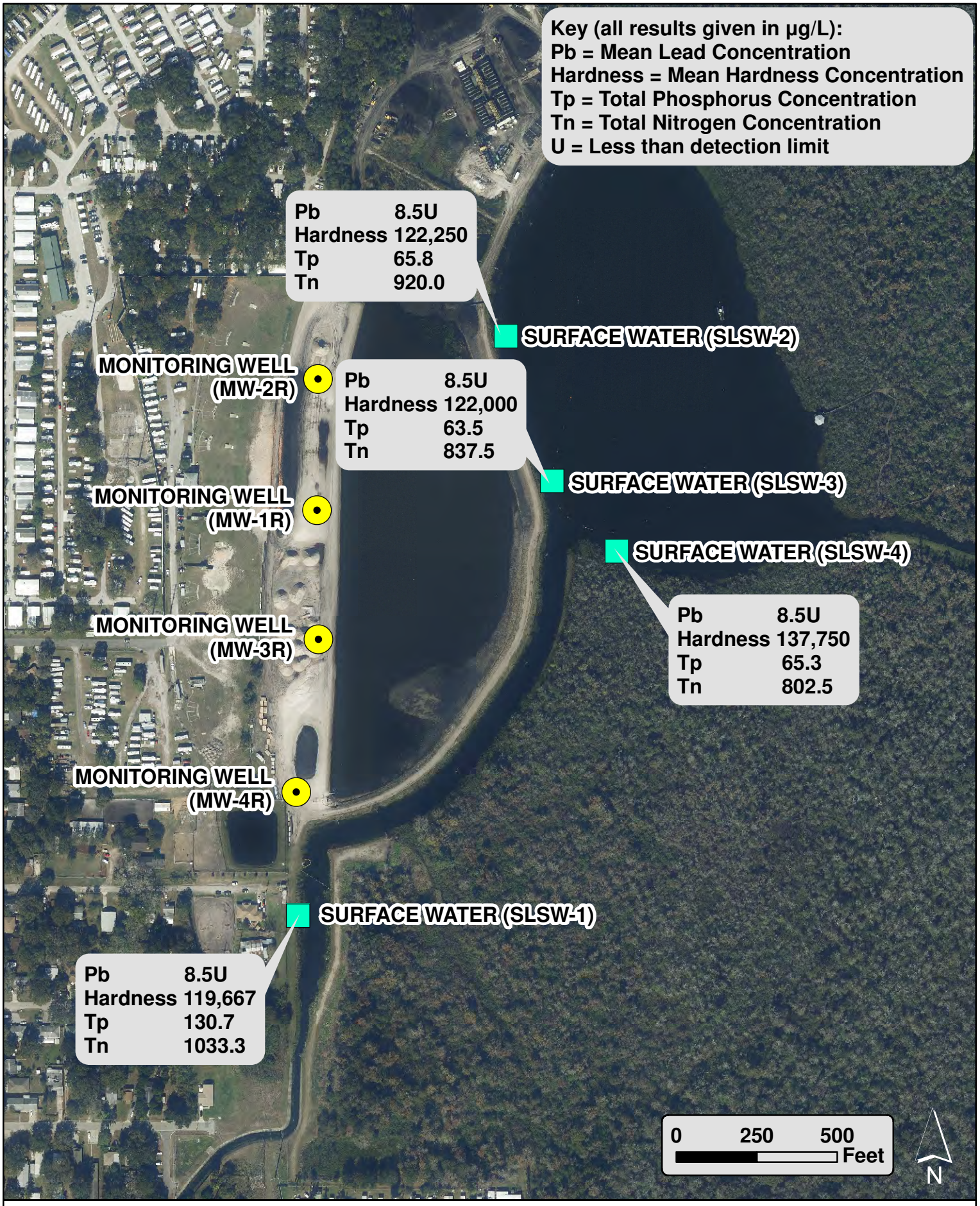

FIGURE 3. JUNE 2015 SURFACE WATER SAMPLING RESULTS

TABLES

TABLE 1
SUMMARY OF GROUNDWATER ANALYTICAL DATA
SAWGRASS LAKE SITE RESTORATION PROJECT

Analyte	SLMW-1	SLMW-1#	SLMW-1-R	SLMW-1R-0615	SLMW-2	SLMW-2-R	SLMW-2R-0615	SLMW-3	SLMW-3-R	SLMW-3R-0615	SLMW-4	SLMW-4-R	SLMW-4R-0615	Groundwater Criteria
Sampling Month	Aug. 2000	Nov. 2002	Mar. 2006	Jun. 2015	Aug. 2000	Mar. 2006	Jun. 2015	Aug. 2000	Mar. 2006	Jun. 2015	Aug. 2000	Mar. 2006	Jun. 2015	
Arsenic	**290**	**230**	2.6	5.3 U (5.3 U)	BDL	**20**	5.3 U	**110**	**29**	**32.4**	**18**	**11**	5.3 U	10
Dissolved Arsenic	N/A	N/A	BDL	5.3 U (5.3 U)	N/A	**19**	5.3 U	N/A	**28**	**32.4**	N/A	**11**	5.3 U	10
Lead	**28**	**34**	3.5	8.5 U (8.5 U)	BDL	4.8	8.5 U	BDL	10	**18.0**	7.2	**58**	8.5 U	15
Dissolved Lead	N/A	N/A	0.71 I	8.5 U (8.5 U)	N/A	0.87 I	8.5 U	N/A	2.3	13.7 I	N/A	**54**	8.5 U	15
Calcium Hardness*	N/A	N/A	87.2	416 (405)	N/A	109	165	N/A	272	360	N/A	76.2	207	-
Magnesium Hardness*	N/A	N/A	9.56	130 (135)	N/A	19.3	19	N/A	15.8	40.0	N/A	15.3	70.2	-
Total Hardness*	N/A	N/A	96.76	1,570 (1,570)	N/A	128.3	490	N/A	287.8	1,060	N/A	91.5	805	-
Total Dissolved Solids	N/A	N/A	180,000	**2,280,000 (2,250,000)**	N/A	220,000	**801,000**	N/A	430,000	**1,720,000**	N/A	300,000	**1,130,000**	500,000

Notes: All results in Micrograms per liter, except for hardness results, which are in mg/l
# = Sample name for location SLMW-1 in 2002 was MW-04S as provided in the FDEP 2003 Site Inspection Report
U = After 2006: Less than Laboratory Method Detection Limits (MDL) - MDL is shown
BDL = 2006 or Before: Below Detection Limits, Below Method Detection Limit, or Below Reporting Limit (shown as "U" on laboratory sheets)
Bold = groundwater criteria exceedance
N/A = Not Applicable
* = hardness results given in Milligrams per liter
Groundwater Criteria = Chapter 62-777 FAC
Duplicate values shown in parenthesis
I = Result is between Method Detection Limit and Practical Quantitation Limit

TABLE 2
SUMMARY OF SURFACE WATER ANALYTICAL DATA
SAWGRASS LAKE SITE RESTORATION PROJECT

Sample ID	Date Collected	Calcium µg/L	Lead µg/L	Magnesium µg/L	Nitrogen, Kjeldahl, Total µg/L	Nitrogen, NO2 plus NO3 µg/L	Phosphorus, Total (as P) µg/L	Tot Hardness asCaCO3 (SM 2340B) µg/L	Total Nitrogen µg/L
GCTL			15						
NADSC			150						
SLSW-1-0	06/12/2015	42,300	5.0 U	3,040	550	**46 I**	62 I	118,000	600
SLSW-1-1	06/12/2015	44,000	5.0 U	3,270	990	**44 I**	**140**	123,000	1,000
SLSW-1-2	06/12/2015	40,800	5.0 U	3,940	1500	30 I	**190**	118,000	1500
SLSW-2-0	06/12/2015	42,200	5.0 U	4,150	1100	28 I	61 I	123,000	1100
SLSW-2-1	06/12/2015	42,100	5.0 U	4,170	810	25 U	65 I	122,000	830
SLSW-2-3	06/12/2015	41,600	5.0 U	4,070	880	25 U	71 I	121,000	890
SLSW-2-5	06/12/2015	42,300	5.0 U	4,140	840	25 U	66 I	123,000	860
SLSW-3-0	06/12/2015	42,400	5.0 U	4,130	730	**36 I**	55 I	123,000	770
SLSW-3-1	06/12/2015	42,200	5.0 U	4,100	670	25 U	51 I	122,000	690
SLSW-3-3	06/12/2015	42,200	5.0 U	4,080	770	25 U	55 I	122,000	780
SLSW-3-5	06/12/2015	41,900	5.0 U	4,000	900	25 U	93 I	121,000	910
SLSW-4-0	06/12/2015	42,400	5.0 U	4,110	840	30 I	67 I	123,000	870
SLSW-4-1	06/12/2015	42,100	5.0 U	4,060	840	25 U	65 I	122,000	860
SLSW-4-3	06/12/2015	40,400	5.0 U	3,800	760	25 U	61 I	117,000	770
SLSW-4-5	06/12/2015	69,700	5.0 U	3,760	790	25 U	68 I	189,000	800
Mean Value Bench Scale	4/12/2007	75,500	10	7,813	7,863	32.1	102	220,000	8,188
Class III Surface Water Standard	-	-	<8.68	-	-	-	-	-	-

Notes:

All results are reported in micrograms per liter unless otherwise noted
U = Less than Laboratory Method Detection Limit (MDL) - MDL is shown
Bold = Mean Value Bench Scale Exceedance from April 12, 2007 pre-construction sampling
I = Result is between Method Detection Limit and Practical Quanitation Limit

Mean Values by Station

SLSW-1	06/12/2015	42,367	5.0 U	3,417	1,013	40.0	130.7	119,667	1,033
SLSW-2	06/12/2015	42,050	5.0 U	4,133	908	25.8	65.8	122,250	920
SLSW-3	06/12/2015	42,100	5.0 U	4,128	815	27.8	63.5	122,000	838
SLSW-4	06/12/2015	42,125	5.0 U	4,110	780	26.3	65.3	137,750	803

TABLE 3
SUMMARY OF YSI SONDE ANALYTICAL DATA
SAWGRASS LAKE SITE RESTORATION PROJECT

Sample ID	Date Collected	Temperature	Specific Cond.	Salinity	pH	Dissolved Oxygen	Dissolved Oxygen	Turbidity
		°C	µS/cm	ppt	-	mg/L	%	NTU
SLSW-1-0	06/12/2015	*	*	*	*	*	*	*
SLSW-1-1	06/12/2015	27.39	342	0.16	6.49	1.82	22.3	7.3
SLSW-1-2	06/12/2015	27.40	338	0.16	6.62	1.37	17.3	8.5
SLSW-2-0	06/12/2015	*	*	*	*	*	*	*
SLSW-2-1	06/12/2015	28.56	378	0.18	7.66	6.27	80.9	8.2
SLSW-2-3	06/12/2015	28.55	378	0.18	7.71	6.24	80.5	8.1
SLSW-2-5	06/12/2015	28.47	379	0.18	7.67	5.48	70.5	7.8
SLSW-3-0	06/12/2015	*	*	*	*	*	*	*
SLSW-3-1	06/12/2015	29.40	381	0.18	7.63	7.86	103.0	8.6
SLSW-3-3	06/12/2015	29.34	381	0.18	7.62	7.57	99.2	8.5
SLSW-3-5	06/12/2015	29.36	381	0.18	7.66	7.55	98.8	8.9
SLSW-4-0	06/12/2015	*	*	*	*	*	*	*
SLSW-4-1	06/12/2015	29.45	378	0.18	7.85	7.73	101.3	8.6
SLSW-4-3	06/12/2015	28.86	382	0.18	7.22	5.55	71.6	8.5
SLSW-4-5	06/12/2015	28.86	364	0.17	7.01	3.11	40.0	8.3

Notes: * No surface water reading (YSI Sonde must be submerged 1' before reading can occur)

Mean Values by Station

SLSW-1	06/12/2015	27.40	340	0.16	6.56	1.60	19.8	7.9
SLSW-2	06/12/2015	28.53	378	0.18	7.68	6.00	77.3	8.0
SLSW-3	06/12/2015	29.37	381	0.18	7.64	7.66	100.3	8.7
SLSW-4	06/12/2015	29.06	375	0.18	7.36	5.46	71.0	8.5

ATTACHMENT A

Groundwater Sampling Logs and Field Equipment Calibration Logs

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Sawgrass Lake site	SITE LOCATION:	Pinellas Park	
WELL NO:	MW-1R	SAMPLE ID:	SLMW-1R-0615	DATE: 6/11/15

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	2.7 feet to 12.7 feet	2.82	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.7 feet − 2.82 feet) X 0.16 gallons/foot = 1.58 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 5 feet) + 0.2 gallons = 0.213 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):
5	5	11:05	12:00	5.5

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)
11:35	3.0	3.0	0.1	2.95	6.70	26.53	2672	2.18	16.8	Black	None
11:40	0.5	3.5	0.1	2.97	6.69	26.45	2675	2.09	11.8	Lt. Blk.	↓
11:45	0.5	4.0	0.1	2.98	6.68	26.42	2680	2.02	9.09	↓	
11:50	0.5	4.5	0.1	2.97	6.67	26.45	2679	1.81	6.98	↓	
11:55	0.5	5.0	0.1	2.98	6.66	26.43	2672	1.52	5.73	Clear	
12:00	0.5	5.5	0.1	2.97	6.65	26.40	2668	1.48	5.00	↓	↓

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:
Brad Bayne / Atkins	Bradley J. Bayne	12:00	12:20

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 1 µm
5	PP + S		

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)
				See Chain of Custody					

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:	Sawgrass Lake site	SITE LOCATION:	Pinellas Park	
WELL NO:	MW-2R	SAMPLE ID:	SLMW-2R-0615	DATE: 6/11/15

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	3.7 feet to 13.7 feet	2.85	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.7 feet − 2.85 feet) X 0.16 gallons/foot = 1.74 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 5 feet) + 0.2 gallons = 0.213 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):
5	5	12:25	13:15	5.0

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)
12:55	3.0	3.0	0.1	2.96	6.45	26.55	1016	2.01	64.2	Lt. Blk.	None
13:00	0.5	3.5	0.1	2.95	6.44	26.52	1019	1.89	56.5	Clear	
13:05	0.5	4.0	0.1	2.96	6.44	26.54	1029	1.62	32.2		
13:10	0.5	4.5	0.1	2.95	6.44	26.56	1036	1.47	26.0		
13:15	0.5	5.0	0.1	2.95	6.44	26.61	1039	1.45	19.3		

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:
Brad Bayne / Atkins	Brad D Bayne	13:15	13:25

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 1 µm
5	PP+S		

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)
				See Chain of Custody					

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:	Sawgrass Lake site	SITE LOCATION:	Pinellas Park	
WELL NO:	MW-3R	SAMPLE ID:	SLMW-3R-0615	DATE: 6/11/15

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	3.1 feet to 13.1 feet	3.28	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.1 feet − 3.28 feet) X 0.16 gallons/foot = 1.57 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 6 feet) + 0.2 gallons = 0.216 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):
6	6	9:30	10:20	5.0

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)
10:00	3.0	3.0	0.1	3.35	6.65	25.58	2456	1.73	11.4	Clear Slt. Silt	
10:05	0.5	3.5	0.1	3.36	6.66	25.58	2457	1.56	9.69	↓	↓
10:10	0.5	4.0	0.1	3.37	6.66	25.58	2456	1.50	7.91		
10:15	0.5	4.5	0.1	3.36	6.66	25.58	2452	1.49	7.16		None
10:20	0.5	5.0	0.1	3.36	6.66	25.58	2448	1.44	6.93	↓	↓

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:
Brad Bayne / Atkins	Bradley D. Bayne	10:20	10:30

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 1 µm
6	PP + S		

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)
				See Chain of Custody					

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:	Sawgrass Lake site	SITE LOCATION:	Pinellas Park	
WELL NO:	MW-4R	SAMPLE ID:	SLMW-4R-0615	DATE: 6/11/15

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	4 feet to 14 feet	2.99	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (14 feet − 2.99 feet) X 0.16 gallons/foot = 1.76 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 5 feet) + 0.2 gallons = 0.213 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):
5	5	8:05	8:55	5.0

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)
8:35	3.0	3.0	0.1	3.15	6.64	25.29	1562	4.10	4.26	Clear	None
8:40	0.5	3.5	0.1	3.16	6.64	25.27	1547	3.43	3.43	↓	↓
8:45	0.5	4.0	0.1	3.15	6.63	25.27	1538	3.05	3.76		
8:50	0.5	4.5	0.1	3.15	6.64	25.26	1534	1.35	3.05		
8:55	0.5	5.0	0.1	3.14	6.63	25.29	1533	1.38	3.16	↓	↓

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:
Brad Bayne / Atkins	Bradley J. Bayne	8:55	9:05

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 1 µm
5	PP+S		

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)
				See Chain of Custody					

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

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Hach 2100 Q **INSTRUMENT #** 13110C029481

PARAMETER: *[check only one]* (rented from Peterson Environmental)

☐ 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 10 NTU provided by Peterson Environmental

Standard B 20 NTU

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/11/15	7:48	A	10	10.1	<1%	Yes	Init.	BB
↓	7:49	B	20	19.9	<1%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 08C100851

PARAMETER: *[check only one]* (rented from Peterson Environmental)

☐ 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 4.01 provided by Peterson Environmental

Standard B 7.00

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/11/15	7:51	A	4.01	4.01	0%	Yes	Init.	BB
↓	7:52	B	7.00	7.01	<1%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 08c100851

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 1,000 uS provided by Peterson Environmental

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/11/15	7:54	A	1,000	1,001	<1%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 08C100851

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 8.56 mg/L (100 %) provided by Peterson Environmental

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/11/15	7:57	A	8.56	8.56	0%	Yes	Init.	BB

ATTACHMENT B

Surface Water Sampling Logs

Notebook # 150415DB1 Project: Sawgrass Lake Task: WQ Page # 1

Date: 2015/06/12 (yy/mm/dd) **Hydrolab/YSI Unit #:** golf/alpha

~~Calibration Book Number:~~ _____ **~~Calibration Book Page #:~~** _____

Air Temperature: 78° F **Wind:** 0-10 E

Tide Stage: _____ **Cloud Cover:** 100%

Reporting Unit Geo Stratum: Sawgrass Lake

Time On Station: 0824 (24 hr. / EST)

Stratum/ //

Station # SLSW-1

Alt # / **Lateral Pos.** /

Secchi depth / (meters)

Secchi @ bottom ☐ **Yes**

Water depth 0.5 (meters) (water column depth)

Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Check If Bottom	NTU +
0.2	27.39	342	0.16	6.49	1.82	22.3	☐	7.3
0.5	27.40	338	0.16	6.62	1.37	17.3	☐	8.5
1.0							☐	
1.5							☐	
2.0							☐	
2.5							☐	
3.0							☐	
3.5							☐	
4.0							☐	
4.5							☐	
5.0							☐	
5.5							☐	
6.0							☐	
6.5							☐	

	Latitude Degrees	Latitude Decimal Minutes	Longitude Degrees	Longitude Decimal Minutes
Projected:			82	
Actual:	27	50.233	82	40.527

Samples: Check Container Numbers ☐ Check Custody Forms ☐

	Sample Taken	Samples Processed	Samples Preserved	Sediment Sample Taken
(check):	☐	☐	☐	☐

Field Notes: ~3' depth measured by survey rod

Signed _____ Date _____ Signed _____ Date _____

J:\Monitoring & Data Analysis\Forms\Data Form - Water Column Profile - Revised 130320.doc Copied- Initial & date _____ Entered- Initial & date _____

Notebook # 150415DB1 Project: Sawgrass Lake Task: WQ Page # 2

Date: 20150409/12 (yy/mm/dd) **Hydrolab/YSI Unit #:** golf/alpha

Calibration Book Number: — **Calibration Book Page #:** —

Air Temperature: _____ **Wind:** 0 10 E

Tide Stage: — **Cloud Cover:** 95%

Reporting Unit Geo Stratum: Sawgrass Lake

Time On Station: 0924 (24 hr. / EST)

Stratum/: /

Station #: SLSW-2

Alt #: / **Lateral Pos.:** /

Secchi depth: / (meters)

Secchi @ bottom: ☐ Yes

Water depth: 1.5 (meters) (water column depth)

Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Check If Bottom
0.2	28.56	3.78	0.18	7.66	6.27	80.9	☐ 8.2
0.5	28.56	378	0.18	7.71	6.25	80.6	☐ 8.1
1.0	28.55	378	0.18	7.71	6.24	80.5	☐ 8.1
1.5	28.47	379	0.18	7.67	5.48	70.5	☑ 7.8
2.0							☐
2.5							☐
3.0							☐
3.5							☐
4.0							☐
4.5							☐
5.0							☐
5.5							☐
6.0							☐
6.5							☐

NTU

	Latitude Degrees	Latitude Decimal Minutes	Longitude Degrees	Longitude Decimal Minutes
Projected:			82	
Actual:	27	50.494	82	40.423

Samples: Check Container Numbers ☐ Check Custody Forms ☐

	Sample Taken	Samples Processed	Samples Preserved	Sediment Sample Taken
(check):	☐	☐	☐	☐

Field Notes: depth measured: 7.3'

Signed _____ Date _____ Signed _____ Date _____

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Notebook # 150415DB1 Project: Sawgrass Lake Task: WQ Page # 3

Date: 2015/06/12 (yy/mm/dd) **Hydrolab/YSI Unit #:** Gail Alpha

Calibration Book Number: / **Calibration Book Page #:** /

Air Temperature: / **Wind:** 0-10E

Tide Stage: / **Cloud Cover:** 50%

Reporting Unit
Geo Stratum: Sawgrass Lake

Time On Station	Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Check If Bottom	NTU
1249	0.2	29.40	381	0.18	7.63	7.86	103.0	☐	8.6
24 hr. / EST	0.5	29.39	381	0.18	7.61	7.71	101.1	☐	8.6
Stratum/ /	1.0	29.34	381	0.18	7.62	7.57	99.2	☐	8.5
	1.5 / 1.3	29.36	381	0.18	7.66	7.55	98.8	☑	8.9
Station # SLSW-3	2.0							☐	
	2.5							☐	
Alt # ___ Lateral Pos. /	3.0							☐	
	3.5							☐	
Secchi depth / (meters)	4.0							☐	
	4.5							☐	
Secchi @ bottom ☐ Yes	5.0							☐	
	5.5							☐	
Water depth 1.3 (meters)	6.0							☐	
(water column depth)	6.5							☐	

	Latitude Degrees	Latitude Decimal Minutes	Longitude Degrees	Longitude Decimal Minutes
Projected:			82	
Actual:	27	50.427	82	40.399

Samples: Check Container Numbers ☐ Check Custody Forms ☐

	Sample Taken	Samples Processed	Samples Preserved	Sediment Sample Taken
(check):	☐	☐	☐	☐

Field Notes: depth measured 6.2'

Signed Date Signed Date

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Notebook # 150415DB1 Project: Sawgrass Lake Task: WQ Page # 4

Date: 2015/06/12 (yy/mm/dd) **Hydrolab/YSI Unit #:** gold/alpha

Calibration Book Number: / **Calibration Book Page #:** /

Air Temperature: / **Wind:** S-15E

Tide Stage: / **Cloud Cover:** 50%

Reporting Unit Geo Stratum: Sawgrass Lake

Time On Station: 1314 (24 hr. / EST)

Stratum/ /

Station # SLSW 4

Alt # / **Lateral Pos.** /

Secchi depth / (meters)

Secchi @ bottom ☐ Yes

Water depth 2.8 (meters) (water column depth)

Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Check If Bottom	NTU+
0.2	29.45	378	0.18	7.85	7.73	101.3	☐	8.6
0.5	29.38	382	0.18	7.67	~~0.5~~ 1.47	98.3	☐	8.6
1.0	28.86	382	0.18	7.22	5.55	71.6	☐	8.5
1.5	28.36	364	0.17	7.01	3.11	40.0	☐	8.3
2.0	28.30	361	0.17	6.92	2.33	30.0	☐	8.3
2.5	28.14	371	0.18	6.77	1.36	17.4	☐	8.9
3.0 2.8	27.82	367	0.17	6.58	0.56	7.1	☑	13.1
3.5							☐	
4.0							☐	
4.5							☐	
5.0							☐	
5.5							☐	
6.0							☐	
6.5							☐	

	Latitude Degrees	Latitude Decimal Minutes	Longitude Degrees	Longitude Decimal Minutes
Projected:			82	
Actual:	27	50.399	82	40.365

Samples: Check Container Numbers ☐ Check Custody Forms ☐

	Sample Taken	Samples Processed	Samples Preserved	Sediment Sample Taken
(check):	☐	☐	☐	☐

Field Notes: depth measured at 11.4'

Signed Date Signed Date

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ATTACHMENT C

Groundwater Laboratory Analytical Reports

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(813)881-9401

June 25, 2015

Matt Starr
Atkins North America
4030 West Boy Scout Blvd., Su
Tampa, FL 33607

RE: Project: Sawgrass Lake GW
Pace Project No.: 35192673

Dear Matt Starr:
Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LA Palmer

Lori Palmer for
Mike Valder
mike.valder@pacelabs.com
Project Manager

Enclosures

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Tampa, FL 33634
(813)881-9401

CERTIFICATIONS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Tampa Certification IDs
5460 Beaumont Center Blvd, Ste 520, Tampa, FL 33634
Florida Certification #: E84809

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35192673001	**SLMW-4R-0615**	Water	06/11/15 09:05	06/11/15 15:00
35192673002	**SLMW-3R-0615**	Water	06/11/15 10:30	06/11/15 15:00
35192673003	**SLMW-1R-0615**	Water	06/11/15 12:20	06/11/15 15:00
35192673004	**DUP A - 0615**	Water	06/11/15 12:20	06/11/15 15:00
35192673005	**SLMW-2R-0615**	Water	06/11/15 13:15	06/11/15 15:00

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35192673001	**SLMW-4R-0615**	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35192673002	**SLMW-3R-0615**	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35192673003	**SLMW-1R-0615**	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35192673004	**DUP A - 0615**	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35192673005	**SLMW-2R-0615**	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Sample: SLMW-4R-0615 **Lab ID: 35192673001** Collected: 06/11/15 09:05 Received: 06/11/15 15:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 17:08	7440-38-2	
Lead, Dissolved	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 17:08	7439-92-1	
6010 MET ICP, Tampa	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 16:39	7440-38-2	
Calcium	**207000**	ug/L	500	250	1	06/15/15 09:15	06/15/15 14:57	7440-70-2	
Lead	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 16:39	7439-92-1	
Magnesium	**70200**	ug/L	2500	1250	5	06/15/15 09:15	06/15/15 15:16	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**805000**	ug/L	16500	8000	5	06/15/15 09:15	06/15/15 15:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1130**	mg/L	10.0	10.0	1		06/15/15 23:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Sample: SLMW-3R-0615 **Lab ID: 35192673002** Collected: 06/11/15 10:30 Received: 06/11/15 15:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**32.4**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 17:10	7440-38-2	
Lead, Dissolved	**13.7 I**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 17:10	7439-92-1	
6010 MET ICP, Tampa	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**32.4**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 16:41	7440-38-2	
Calcium	**360000**	ug/L	2500	1250	5	06/15/15 09:15	06/15/15 15:18	7440-70-2	
Lead	**18.0**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 16:41	7439-92-1	
Magnesium	**40000**	ug/L	2500	1250	5	06/15/15 09:15	06/15/15 15:18	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**1060000**	ug/L	16500	8000	5	06/15/15 09:15	06/15/15 15:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1720**	mg/L	10.0	10.0	1		06/15/15 23:55		

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Sample: SLMW-1R-0615 **Lab ID: 35192673003** Collected: 06/11/15 12:20 Received: 06/11/15 15:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/24/15 16:28	7440-38-2	
Lead, Dissolved	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 17:12	7439-92-1	
6010 MET ICP, Tampa	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/24/15 15:40	7440-38-2	
Calcium	**416000**	ug/L	5000	2500	10	06/15/15 09:15	06/15/15 15:20	7440-70-2	
Lead	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 16:43	7439-92-1	
Magnesium	**130000**	ug/L	5000	2500	10	06/15/15 09:15	06/15/15 15:20	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**1570000**	ug/L	33000	16000	10	06/15/15 09:15	06/15/15 15:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2280**	mg/L	20.0	20.0	1		06/15/15 23:55		

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Sample: DUP A - 0615 **Lab ID: 35192673004** Collected: 06/11/15 12:20 Received: 06/11/15 15:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 17:14	7440-38-2	
Lead, Dissolved	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 17:14	7439-92-1	
6010 MET ICP, Tampa	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 16:45	7440-38-2	
Calcium	**405000**	ug/L	5000	2500	10	06/15/15 09:15	06/15/15 15:22	7440-70-2	
Lead	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 16:45	7439-92-1	
Magnesium	**135000**	ug/L	5000	2500	10	06/15/15 09:15	06/15/15 15:22	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**1570000**	ug/L	33000	16000	10	06/15/15 09:15	06/15/15 15:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2250**	mg/L	20.0	20.0	1		06/15/15 23:55		

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Sample: SLMW-2R-0615 **Lab ID: 35192673005** Collected: 06/11/15 13:15 Received: 06/11/15 15:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 17:16	7440-38-2	
Lead, Dissolved	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 17:16	7439-92-1	
6010 MET ICP, Tampa	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**5.3 U**	ug/L	10.0	5.3	1	06/15/15 09:15	06/15/15 16:47	7440-38-2	
Calcium	**165000**	ug/L	500	250	1	06/15/15 09:15	06/15/15 15:05	7440-70-2	
Lead	**8.5 U**	ug/L	15.0	8.5	1	06/15/15 09:15	06/15/15 16:47	7439-92-1	
Magnesium	**19000**	ug/L	500	250	1	06/15/15 09:15	06/15/15 15:05	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**490000**	ug/L	3300	1600	1	06/15/15 09:15	06/15/15 15:05		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**801**	mg/L	5.0	5.0	1		06/15/15 23:55		

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW
Pace Project No.: 35192673

QC Batch: TAMP/5793 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

METHOD BLANK: 1242384 Matrix: Water
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	5.3 U	10.0	06/15/15 16:49	
Lead, Dissolved	ug/L	8.5 U	15.0	06/15/15 16:49	

LABORATORY CONTROL SAMPLE: 1242385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	236	95	80-120	
Lead, Dissolved	ug/L	250	270	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242386 1242387

Parameter	Units	35192673001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	5.3 U	250	250	250	250	100	100	75-125	0	20	
Lead, Dissolved	ug/L	8.5 U	250	250	253	262	101	105	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW
Pace Project No.: 35192673

QC Batch: TAMP/5792 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Tampa
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

METHOD BLANK: 1242379 Matrix: Water
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	5.3 U	10.0	06/15/15 16:24	
Calcium	ug/L	250 U	500	06/15/15 14:49	
Lead	ug/L	8.5 U	15.0	06/15/15 16:24	
Magnesium	ug/L	250 U	500	06/15/15 14:49	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3300	06/15/15 14:49	

LABORATORY CONTROL SAMPLE: 1242380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	244	98	80-120	
Calcium	ug/L	12500	12200	98	80-120	
Lead	ug/L	250	278	111	80-120	
Magnesium	ug/L	12500	12000	96	80-120	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	79900	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1242381 1242382

Parameter	Units	35192673001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.3 U	250	250	249	252	99	101	75-125	1	20	
Calcium	ug/L	207000	12500	12500	217000	219000	83	97	75-125	1	20	
Lead	ug/L	8.5 U	250	250	236	254	95	102	75-125	7	20	
Magnesium	ug/L	70200	12500	12500	82900	82000	101	94	75-125	1	20	
Tot Hardness asCaCO3 (SM 2340B	ug/L	805000	82700	82700	883000	884000	95	95	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW
Pace Project No.: 35192673

QC Batch: WET/31385 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

METHOD BLANK: 1242707 Matrix: Water
Associated Lab Samples: 35192673001, 35192673002, 35192673003, 35192673004, 35192673005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	06/15/15 23:52	

LABORATORY CONTROL SAMPLE: 1242708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	90-110	

SAMPLE DUPLICATE: 1242709

Parameter	Units	92253917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	110	103	7	5	J(D6)

SAMPLE DUPLICATE: 1242710

Parameter	Units	35192525001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	776	770	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
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Tampa, FL 33634
(813)881-9401

QUALIFIERS

Project: Sawgrass Lake GW
Pace Project No.: 35192673

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach
PASI-Tp	Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake GW
Pace Project No.: 35192673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35192673001	**SLMW-4R-0615**	EPA 3010	TAMP/5793	EPA 6010	TAMP/5798
35192673002	**SLMW-3R-0615**	EPA 3010	TAMP/5793	EPA 6010	TAMP/5798
35192673003	**SLMW-1R-0615**	EPA 3010	TAMP/5793	EPA 6010	TAMP/5798
35192673004	**DUP A - 0615**	EPA 3010	TAMP/5793	EPA 6010	TAMP/5798
35192673005	**SLMW-2R-0615**	EPA 3010	TAMP/5793	EPA 6010	TAMP/5798
35192673001	**SLMW-4R-0615**	EPA 3010	TAMP/5792	EPA 6010	TAMP/5797
35192673002	**SLMW-3R-0615**	EPA 3010	TAMP/5792	EPA 6010	TAMP/5797
35192673003	**SLMW-1R-0615**	EPA 3010	TAMP/5792	EPA 6010	TAMP/5797
35192673004	**DUP A - 0615**	EPA 3010	TAMP/5792	EPA 6010	TAMP/5797
35192673005	**SLMW-2R-0615**	EPA 3010	TAMP/5792	EPA 6010	TAMP/5797
35192673001	**SLMW-4R-0615**	SM 2540C	WET/31385		
35192673002	**SLMW-3R-0615**	SM 2540C	WET/31385		
35192673003	**SLMW-1R-0615**	SM 2540C	WET/31385		
35192673004	**DUP A - 0615**	SM 2540C	WET/31385		
35192673005	**SLMW-2R-0615**	SM 2540C	WET/31385		

Pace Analytical

bradley.bayne@atkinsglobal.com

WO# : 35192673

35192673

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...eted accurately.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:		
Company: ATKINS Global	Report To: ~~Matt Starr~~ Brad Bayne	Attention: Bryan Flynn	
Address: 4030 West Boy Scout Blvd., Su	Copy To: Bryan Flynn	Company Name: Atkins	Regulatory Agency
Tampa, FL 33607		Address:	
Email: ~~matthew.starr@atkinsglobal.com~~	Purchase Order #: 727-424-6716	Pace Quote:	
Phone: 727-409-0733 Fax	Project Name: Sawgrass Lake GW	Pace Project Manager: mike.valder@pacelabs.com,	State / Location
Requested Due Date: Standard	Project #:	Pace Profile #: 6964 line 6	FL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: 6010 As,Pb,Ca,Mg T-hardn	TDS	6010 As,Pb, ~~Ca,Mg~~ Dissolve	Residual Chlorine (Y/N)	
1	SLMW-4R-0615	WT	G	6/11	8:55	6/11	9:05	25	3	1		2							✓	✓	✓		Run Filtered for As & Pb only. Do not run filtered for Ca-Mg Hardness
2	SLMW-3R-0615	WT	G	6/11	10:20	6/11	10:30	26	3	1		2							✓	✓	✓		
3	SLMW-1R-0615	WT	G	6/11	12:00	6/11	12:20	26	3	1		2							✓	✓	✓		
4	Dup A-0615	WT	G	6/11	12:00	6/11	12:20	26	3	1		2							✓	✓	✓		
5	SLMW-2R-0615	WT	G	6/11	13:15	6/11	13:25	26	3	1		2							✓	✓	✓		
6																							
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Empty Containers		6/4/15	0810		6/4		
Metals for total & dissolved=T-Hardness,As,Pb,Ca,Mg No filters needed		6/11/15	1500	Pace	6/11/15	1500	
See Note via FLX	Pace	6/11/15	2100	TDH Pace	6/12/15	0000	-1.4 Y N
							T198

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed:					

ATTACHMENT D

Surface Water Laboratory Analytical Reports

Pace Analytical Services, Inc.
5460 Beaumont Center Blvd - Suite 520
Tampa, FL 33634
(813)881-9401

June 19, 2015

Matt Starr
Atkins North America
4030 West Boy Scout Blvd., Su
Tampa, FL 33607

RE: Project: Sawgrass Lake SW
Pace Project No.: 35192803

Dear Matt Starr:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Palmer for
Mike Valder
mike.valder@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
5460 Beaumont Center Blvd - Suite 520
Tampa, FL 33634
(813)881-9401

CERTIFICATIONS

Project:	Sawgrass Lake SW
Pace Project No.:	35192803

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35192803001	**SLSW-1-0**	Water	06/12/15 08:44	06/12/15 14:35
35192803002	**SLSW-1-1**	Water	06/12/15 08:48	06/12/15 14:35
35192803003	**SLSW-2-0**	Water	06/12/15 09:31	06/12/15 14:35
35192803004	**SLSW-2-1**	Water	06/12/15 12:35	06/12/15 14:35
35192803005	**SLSW-2-3**	Water	06/12/15 12:42	06/12/15 14:35
35192803006	**SLSW-2-5**	Water	06/12/15 12:44	06/12/15 14:35
35192803007	**SLSW-3-0**	Water	06/12/15 12:56	06/12/15 14:35
35192803008	**SLSW-3-1**	Water	06/12/15 12:59	06/12/15 14:35
35192803009	**SLSW-3-3**	Water	06/12/15 13:01	06/12/15 14:35
35192803010	**SLSW-3-5**	Water	06/12/15 13:04	06/12/15 14:35
35192803011	**SLSW-4-0**	Water	06/12/15 13:21	06/12/15 14:35
35192803012	**SLSW-4-0 DUP**	Water	06/12/15 13:24	06/12/15 14:35
35192803013	**SLSW-4-1**	Water	06/12/15 13:27	06/12/15 14:35
35192803014	**SLSW-4-3**	Water	06/12/15 13:30	06/12/15 14:35
35192803015	**SLSW-4-5**	Water	06/12/15 13:33	06/12/15 14:35
35192803016	**SLSW-1-2**	Water	06/12/15 08:50	06/12/15 14:35

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35192803001	**SLSW-1-0**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803002	**SLSW-1-1**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803003	**SLSW-2-0**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803004	**SLSW-2-1**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803005	**SLSW-2-3**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803006	**SLSW-2-5**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803007	**SLSW-3-0**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803008	**SLSW-3-1**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803009	**SLSW-3-3**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803010	**SLSW-3-5**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803011	**SLSW-4-0**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803012	**SLSW-4-0 DUP**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803013	**SLSW-4-1**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803014	**SLSW-4-3**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O
35192803015	**SLSW-4-5**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 365.4	CLS	1	PASI-O
35192803016	**SLSW-1-2**	EPA 200.7	CKJ	4	PASI-O
		TKN+NOx Calculation	CLS	1	PASI-O
		EPA 351.2	CLS	1	PASI-O
		EPA 353.2	KEK	1	PASI-O
		EPA 365.4	CLS	1	PASI-O

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-1-0 **Lab ID: 35192803001** Collected: 06/12/15 08:44 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42300**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:07	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 14:07	7439-92-1	
Magnesium	**3040**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:07	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**118000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 14:07		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.60**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.55**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.046 I**	mg/L	0.050	0.025	1		06/16/15 09:42		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.062 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:53	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-1-1 **Lab ID: 35192803002** Collected: 06/12/15 08:48 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**44000**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:24	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 14:24	7439-92-1	
Magnesium	**3270**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:24	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 14:24		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**1.0**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.99**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.044 I**	mg/L	0.050	0.025	1		06/16/15 09:43		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.14**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:54	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-2-0 **Lab ID: 35192803003** Collected: 06/12/15 09:31 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42200**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:28	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 14:28	7439-92-1	
Magnesium	**4150**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:28	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 14:28		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**1.1**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**1.1**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:55	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.028 I**	mg/L	0.050	0.025	1		06/16/15 09:47		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.061 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:55	7723-14-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(813)881-9401

ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-2-1 **Lab ID: 35192803004** Collected: 06/12/15 12:35 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42100**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:33	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 14:33	7439-92-1	
Magnesium	**4170**	ug/L	500	250	1	06/17/15 13:29	06/18/15 14:33	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**122000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 14:33		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.83**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.81**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:57	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:48		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.065 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:57	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-2-3 **Lab ID: 35192803005** Collected: 06/12/15 12:42 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**41600**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:00	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:00	7439-92-1	
Magnesium	**4070**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:00	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**121000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:00		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.89**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.88**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:58	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:49		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.071 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:58	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-2-5 **Lab ID: 35192803006** Collected: 06/12/15 12:44 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42300**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:05	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:05	7439-92-1	
Magnesium	**4140**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:05	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:05		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.86**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.84**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 16:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:51		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.066 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 16:59	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-3-0 **Lab ID: 35192803007** Collected: 06/12/15 12:56 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42400**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:09	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:09	7439-92-1	
Magnesium	**4130**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:09	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:09		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.77**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.73**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:03	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.036 I**	mg/L	0.050	0.025	1		06/16/15 09:52		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.055 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:03	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-3-1 **Lab ID: 35192803008** Collected: 06/12/15 12:59 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42200**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:13	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:13	7439-92-1	
Magnesium	**4100**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:13	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**122000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:13		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.69**	mg/L	0.50	0.086	1		06/17/15 14:32		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.67**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:53		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.051 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:05	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-3-3 **Lab ID: 35192803009** Collected: 06/12/15 13:01 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42200**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:18	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:18	7439-92-1	
Magnesium	**4080**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:18	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**122000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:18		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.78**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.77**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:14	7727-37-9	J(D6)
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:54		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.055 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:14	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-3-5 **Lab ID: 35192803010** Collected: 06/12/15 13:04 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**41900**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:22	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:22	7439-92-1	
Magnesium	**4000**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:22	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**121000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:22		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.91**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.90**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 09:58		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.093 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:21	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-4-0 **Lab ID: 35192803011** Collected: 06/12/15 13:21 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42400**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:39	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:39	7439-92-1	
Magnesium	**4110**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:39	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:39		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.87**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.84**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.030 I**	mg/L	0.050	0.025	1		06/16/15 10:02		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.067 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:23	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-4-0 DUP **Lab ID: 35192803012** Collected: 06/12/15 13:24 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42500**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:43	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:43	7439-92-1	
Magnesium	**4130**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:43	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**123000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:43		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.85**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.84**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:24	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 10:03		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.060 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:24	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-4-1 **Lab ID: 35192803013** Collected: 06/12/15 13:27 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**42100**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:48	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:48	7439-92-1	
Magnesium	**4060**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:48	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**122000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:48		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.86**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.84**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:25	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 10:05		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.065 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:25	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-4-3 **Lab ID: 35192803014** Collected: 06/12/15 13:30 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**40400**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:52	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:52	7439-92-1	
Magnesium	**3800**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:52	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**117000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:52		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.77**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.76**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:27	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 10:06		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.061 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:27	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-4-5 **Lab ID: 35192803015** Collected: 06/12/15 13:33 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**69700**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:56	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 15:56	7439-92-1	
Magnesium	**3760**	ug/L	500	250	1	06/17/15 13:29	06/18/15 15:56	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**189000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 15:56		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**0.80**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**0.79**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:28	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.025 U**	mg/L	0.050	0.025	1		06/16/15 10:07		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.068 I**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:28	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Sample: SLSW-1-2 **Lab ID: 35192803016** Collected: 06/12/15 08:50 Received: 06/12/15 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Calcium	**40800**	ug/L	500	250	1	06/17/15 13:29	06/18/15 16:01	7440-70-2	
Lead	**5.0 U**	ug/L	10.0	5.0	1	06/17/15 13:29	06/18/15 16:01	7439-92-1	
Magnesium	**3940**	ug/L	500	250	1	06/17/15 13:29	06/18/15 16:01	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	**118000**	ug/L	3300	1600	1	06/17/15 13:29	06/18/15 16:01		
Total Nitrogen Calculation	Analytical Method: TKN+NOx Calculation								
Total Nitrogen	**1.5**	mg/L	0.50	0.086	1		06/17/15 15:09		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	**1.5**	mg/L	0.50	0.086	1	06/16/15 11:55	06/16/15 17:29	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2								
Nitrogen, NO2 plus NO3	**0.030 I**	mg/L	0.050	0.025	1		06/16/15 10:09		
365.4 Phosphorus, Total	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	**0.19**	mg/L	0.10	0.050	1	06/16/15 11:55	06/16/15 17:29	7723-14-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
5460 Beaumont Center Blvd - Suite 520
Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: MPRP/24751 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008, 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

METHOD BLANK: 1244235 Matrix: Water
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008, 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	250 U	500	06/18/15 13:36	
Lead	ug/L	5.0 U	10.0	06/18/15 13:36	
Magnesium	ug/L	250 U	500	06/18/15 13:36	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3300	06/18/15 13:36	

LABORATORY CONTROL SAMPLE: 1244236

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	12500	12000	96	85-115	
Lead	ug/L	250	250	100	85-115	
Magnesium	ug/L	12500	11400	91	85-115	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	76800	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1244237 1244238

Parameter	Units	35192443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	236000	12500	12500	241000	245000	39	74	70-130	2	20	J(M1)
Lead	ug/L	5.0 U	250	250	221	220	88	88	70-130	0	20	
Magnesium	ug/L	557000	12500	12500	548000	561000	-76	33	70-130	2	20	J(M1), L
Tot Hardness asCaCO3 (SM 2340B	ug/L	2880000	82700	82700	2860000	2920000	-33	48	70-130	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1244239 1244240

Parameter	Units	35193068001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	ug/L	127000	12500	12500	143000	138000	128	95	70-130	3	20	
Lead	ug/L	5.0 U	250	250	239	239	96	96	70-130	0	20	
Magnesium	ug/L	133000	12500	12500	150000	145000	138	96	70-130	4	20	J(M1)
Tot Hardness asCaCO3 (SM 2340B	ug/L	862000	82700	82700	973000	941000	134	96	70-130	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: WETA/47352 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008

METHOD BLANK: 1243287 Matrix: Water
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	06/16/15 16:31	

LABORATORY CONTROL SAMPLE: 1243288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	20.5	102	90-110	

MATRIX SPIKE SAMPLE: 1243290

Parameter	Units	35192654003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.8	20	23.0	101	90-110	

SAMPLE DUPLICATE: 1243289

Parameter	Units	35192654003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.8	2.7	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: WETA/47354 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

METHOD BLANK: 1243305 Matrix: Water
Associated Lab Samples: 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	06/16/15 17:12	

LABORATORY CONTROL SAMPLE: 1243306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	20.3	101	90-110	

MATRIX SPIKE SAMPLE: 1243308

Parameter	Units	35192803009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.77	20	21.4	103	90-110	

SAMPLE DUPLICATE: 1243307

Parameter	Units	35192803009 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.77	1.2	44	20	J(D6)

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: WETA/47346 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008, 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

METHOD BLANK: 1243118 Matrix: Water
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008, 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	06/16/15 09:34	

LABORATORY CONTROL SAMPLE: 1243119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1243121

Parameter	Units	35192767001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	8.3	4	11.5	79	80-120	J(M1),L

MATRIX SPIKE SAMPLE: 1243123

Parameter	Units	35192803009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	2.0	98	80-120	

SAMPLE DUPLICATE: 1243120

Parameter	Units	35192767001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	8.3	8.3	1	20	

SAMPLE DUPLICATE: 1243122

Parameter	Units	35192803009 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: WETA/47353 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008

METHOD BLANK: 1243297 Matrix: Water
Associated Lab Samples: 35192803001, 35192803002, 35192803003, 35192803004, 35192803005, 35192803006, 35192803007, 35192803008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	06/16/15 17:06	

LABORATORY CONTROL SAMPLE: 1243298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.1	102	90-110	

MATRIX SPIKE SAMPLE: 1243300

Parameter	Units	35192654003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.062 I	4	4.1	100	80-120	

SAMPLE DUPLICATE: 1243299

Parameter	Units	35192654003 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.062 I	0.057 I		20	

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REPORT OF LABORATORY ANALYSIS

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Tampa, FL 33634
(813)881-9401

QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35192803

QC Batch: WETA/47355 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

METHOD BLANK: 1243313 Matrix: Water
Associated Lab Samples: 35192803009, 35192803010, 35192803011, 35192803012, 35192803013, 35192803014, 35192803015, 35192803016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	06/16/15 17:53	

LABORATORY CONTROL SAMPLE: 1243314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.2	104	90-110	

MATRIX SPIKE SAMPLE: 1243316

Parameter	Units	35192803009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.055 I	4	4.2	104	80-120	

SAMPLE DUPLICATE: 1243315

Parameter	Units	35192803009 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.055 I	0.059 I		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(813)881-9401

QUALIFIERS

Project: Sawgrass Lake SW
Pace Project No.: 35192803

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
J(D6)	Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
L	Off-scale high. Actual value is known to be greater than value given.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35192803001	**SLSW-1-0**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803002	**SLSW-1-1**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803003	**SLSW-2-0**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803004	**SLSW-2-1**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803005	**SLSW-2-3**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803006	**SLSW-2-5**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803007	**SLSW-3-0**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803008	**SLSW-3-1**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803009	**SLSW-3-3**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803010	**SLSW-3-5**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803011	**SLSW-4-0**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803012	**SLSW-4-0 DUP**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803013	**SLSW-4-1**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803014	**SLSW-4-3**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803015	**SLSW-4-5**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803016	**SLSW-1-2**	EPA 200.7	MPRP/24751	EPA 200.7	ICP/15101
35192803001	**SLSW-1-0**	TKN+NOx Calculation	WET/31435		
35192803002	**SLSW-1-1**	TKN+NOx Calculation	WET/31435		
35192803003	**SLSW-2-0**	TKN+NOx Calculation	WET/31435		
35192803004	**SLSW-2-1**	TKN+NOx Calculation	WET/31435		
35192803005	**SLSW-2-3**	TKN+NOx Calculation	WET/31435		
35192803006	**SLSW-2-5**	TKN+NOx Calculation	WET/31435		
35192803007	**SLSW-3-0**	TKN+NOx Calculation	WET/31435		
35192803008	**SLSW-3-1**	TKN+NOx Calculation	WET/31435		
35192803009	**SLSW-3-3**	TKN+NOx Calculation	WET/31441		
35192803010	**SLSW-3-5**	TKN+NOx Calculation	WET/31441		
35192803011	**SLSW-4-0**	TKN+NOx Calculation	WET/31441		
35192803012	**SLSW-4-0 DUP**	TKN+NOx Calculation	WET/31441		
35192803013	**SLSW-4-1**	TKN+NOx Calculation	WET/31441		
35192803014	**SLSW-4-3**	TKN+NOx Calculation	WET/31441		
35192803015	**SLSW-4-5**	TKN+NOx Calculation	WET/31441		
35192803016	**SLSW-1-2**	TKN+NOx Calculation	WET/31441		
35192803001	**SLSW-1-0**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803002	**SLSW-1-1**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803003	**SLSW-2-0**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803004	**SLSW-2-1**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803005	**SLSW-2-3**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803006	**SLSW-2-5**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803007	**SLSW-3-0**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803008	**SLSW-3-1**	EPA 351.2	WETA/47352	EPA 351.2	WETA/47366
35192803009	**SLSW-3-3**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803010	**SLSW-3-5**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803011	**SLSW-4-0**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803012	**SLSW-4-0 DUP**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803013	**SLSW-4-1**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803014	**SLSW-4-3**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803015	**SLSW-4-5**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
5460 Beaumont Center Blvd - Suite 520
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(813)881-9401

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake SW
Pace Project No.: 35192803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35192803016	**SLSW-1-2**	EPA 351.2	WETA/47354	EPA 351.2	WETA/47368
35192803001	**SLSW-1-0**	EPA 353.2	WETA/47346		
35192803002	**SLSW-1-1**	EPA 353.2	WETA/47346		
35192803003	**SLSW-2-0**	EPA 353.2	WETA/47346		
35192803004	**SLSW-2-1**	EPA 353.2	WETA/47346		
35192803005	**SLSW-2-3**	EPA 353.2	WETA/47346		
35192803006	**SLSW-2-5**	EPA 353.2	WETA/47346		
35192803007	**SLSW-3-0**	EPA 353.2	WETA/47346		
35192803008	**SLSW-3-1**	EPA 353.2	WETA/47346		
35192803009	**SLSW-3-3**	EPA 353.2	WETA/47346		
35192803010	**SLSW-3-5**	EPA 353.2	WETA/47346		
35192803011	**SLSW-4-0**	EPA 353.2	WETA/47346		
35192803012	**SLSW-4-0 DUP**	EPA 353.2	WETA/47346		
35192803013	**SLSW-4-1**	EPA 353.2	WETA/47346		
35192803014	**SLSW-4-3**	EPA 353.2	WETA/47346		
35192803015	**SLSW-4-5**	EPA 353.2	WETA/47346		
35192803016	**SLSW-1-2**	EPA 353.2	WETA/47346		
35192803001	**SLSW-1-0**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803002	**SLSW-1-1**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803003	**SLSW-2-0**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803004	**SLSW-2-1**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803005	**SLSW-2-3**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803006	**SLSW-2-5**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803007	**SLSW-3-0**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803008	**SLSW-3-1**	EPA 365.4	WETA/47353	EPA 365.4	WETA/47367
35192803009	**SLSW-3-3**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803010	**SLSW-3-5**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803011	**SLSW-4-0**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803012	**SLSW-4-0 DUP**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803013	**SLSW-4-1**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803014	**SLSW-4-3**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803015	**SLSW-4-5**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369
35192803016	**SLSW-1-2**	EPA 365.4	WETA/47355	EPA 365.4	WETA/47369

WO# : 35192803

35192803

Pace Analytical

st Document

ds must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:	Section B Required Project Information:	Invoice Information:
Company: ATKINS Global	Report To: Matt Starr	Attention:
Address: 4030 West Boy Scout Blvd., Su Tampa, FL 33607	Copy To:	Company Name:
		Address:
Email: matthew.starr@atkinsglobal.com	Purchase Order #:	Pace Quote:
Phone: 727-409-0733 Fax:	Project Name: Sawgrass Lake SW	Pace Project Manager: mike.valder@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 6964 line 5

Regulatory Agency
State / Location
FL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: T-Nitrogen (TKN+NO_2+NO	Total Phosphorus	200.7 Pb,Ca,Mg,T-hardnes	Residual Chlorine (Y/N)
1	SLSW-1-0			06/12/2015	0844														X	X	X	
2	SLSW-1-1				0848																	
3	SLSW-2-0				0931																	
4	SLSW-2-1				1235																	
5	SLSW-2-3				1242																	
6	SLSW-2-5				1244																	
7	SLSW-3-0				1256																	
8	SLSW-3-1				1259																	
9	SLSW-3-3				1301																	
10	SLSW-3-5				1304																	
11	SLSW-4-0				1321																	
12	SLSW-4-0 DUP				1324																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Empty Containers		6/4/15	0810				
Metals=Pb,Ca,Mg,Total hardness		6/12/15	1435		6-12-15	1435	5.1 X 2
	PACE	6/12/15	21:00	TDH PACE	6/12/15	2335	0.8 Y N
							T199

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica A. Hudson

SIGNATURE of SAMPLER: Jessica A. Hudson

DATE Signed: 2015/06/12

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ATKINS Global	Report To:	Matt Starr	Attention:	
Address:	4030 West Boy Scout Blvd., Su	Copy To:		Company Name:	
	Tampa, FL 33607			Address:	
Email:	matthew.starr@atkinsglobal.com	Purchase Order #:		Pace Quote:	
Phone:	727-409-0733 Fax	Project Name:	Sawgrass Lake SW	Pace Project Manager:	mike.valder@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	6964 line 5

Regulatory Agency
State / Location
FL

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1	SLSW 4-1			06/12/2015	1327														X	X	X	
2	SLSW 4-3					1330																
3	SLSW 4-5					1333																
4	SLSW 1-2					0850																
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Empty Containers		6/14/15	0812							
Metals=Pb,Ca,Mg,Total hardness					6/12/15	1430	5.	T		
				TDH PACE	6/12/15	0335	0.8	Y		
							TIAG			

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jessica A. Hudson
SIGNATURE of SAMPLER:	DATE Signed: 2015/06/12

Pace Analytical Florida Laboratory	Document Name: Sample Condition Upon Receipt Form	Document Revised: August 11, 2014
	Document No.: F-FL-C-007 rev. 06	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: ATKINS Project # 35192803

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other _____

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T99 Type of Ice: (Wet) Blue None

Cooler Temperature °C 0.8 (Visual) 0 (Correction Factor) 0.8 (Actual)

Date and Initials of person examining contents: 6/12/15 TH 2335

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen? ☐Yes ☐No

Receipt of samples satisfactory: ☑Yes ☐No

Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____ Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: _____