



January 7, 2016

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 3rd Quarter Water Quality Sampling Results
December 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 third quarterly sampling event (December 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, the 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.

The first quarterly sampling event at the Sawgrass Lake Site Restoration Project was conducted in June 2015, the second quarterly sampling event was performed in September 2015, and the third (most recent) quarterly sampling event was performed in December 2015. This report presents the results of the third quarter of groundwater and surface water sampling at the Sawgrass Lake Site Restoration Project. The groundwater and surface water sampling locations are illustrated in **Figure 1**.

THIRD QUARTERLY SAMPLING EVENT (DECEMBER 2015)

The third quarterly sampling event was conducted on December 15, 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 December 15, 2015.

Groundwater Sample Collection Methodology

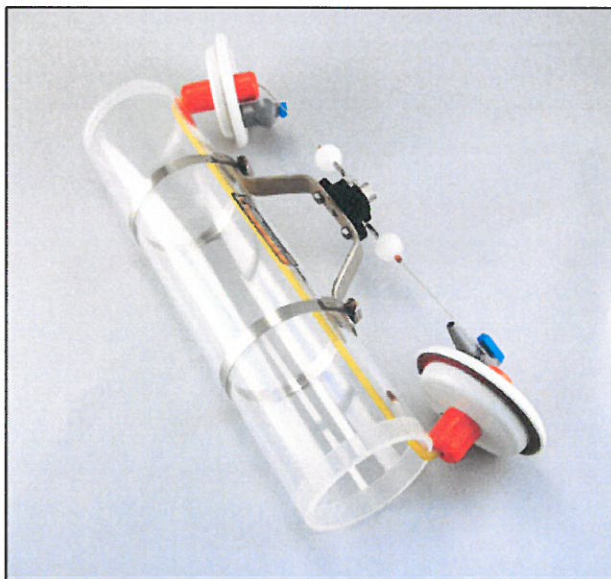
Prior to sampling the monitoring wells, each well was purged with a peristaltic pump using the “low-flow” method. A minimum equivalent of one to three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were 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 (1215, in this case). For example, the sample from MW-1R was labeled “SLMW-1R-1215”. 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 (in feet) at which the sample was collected (for example, -2). The process consisted of collecting four water samples at the canal sampling location and four samples at the other 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 (see photo below). 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 Arsenic, 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 sheets and YSI calibration logs are provided in **Attachment B**.



Typical Kemmerer water sampling device.

THIRD QUARTERLY SAMPLING EVENT RESULTS (DECEMBER 2015)

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the four monitoring wells. The depth to groundwater ranged from 3.04 feet below the TOC at MW-2R to 3.61 feet below the TOC at MW-3R. The water table was up to 0.81 feet lower than during the previous sampling event. 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 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 December 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, as well as the results from the prior quarterly sampling events.

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 two analytes detected at concentrations that did not comply with their standards – pH and TDS. Note that neither lead nor arsenic were detected in the groundwater during this sampling event. TDS and pH have SDWS criteria, as provided as an MCL in Chapter 62-550 FAC. A description of the detection patterns with these two analytes is described below.

- pH - The SDWS for pH is any value within the range of 6.5 to 8.5. The pH readings for all of the wells were less than the SDWS range. The pH values ranged from 6.11 at MW-2R to 6.41 at MW-3R (see **Attachment A**). Except for MW-3R, the pH readings at all of the wells were lower than during the previous sampling event.
- 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 599 mg/L at MW-4R to 2,290 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). However, from September 2015 to December 2015, there were notable decreases in the TDS concentrations at all of the wells except MW-1R (which remained relatively high, at 2,290 mg/L). The decreases in TDS concentrations from September 2015 to December 2015 were up to 60% (as at MW-4R).

With the exception of the specific results discussed above, the groundwater quality results from the December 2015 sampling event were in the same general range as the results from the June and September 2015 sampling events. It was noted that conductivity readings were on the order four times higher in the groundwater (at MW-1R, for example) than in the surface water, and the total hardness values in the groundwater were on the order of five times higher than the surface water.

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 were collected on December 15, 2015 and 0.0 inches of rain was observed the previous day at the St. Pete – Clearwater Airport. The non-native plant, Hydrilla (*Hydrilla verticillata*) was also observed in the lake during the sampling. **Figure 3** illustrates the December 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 compared to 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.

- Arsenic – testing of this heavy metal was added to the surface water sampling for the third quarter sampling in addition to the second quarter. All of the 16 samples were undetected for arsenic.
- Lead – the surface water criteria for lead was identified as being $\leq 8.68 \mu\text{g/L}$. 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 $10 \mu\text{g/L}$ prior to construction.
- Total Phosphorus – all four samples collected at station SLSW-1 reported a readings between $150 \mu\text{g/L}$ and $200 \mu\text{g/L}$, therefore exceeding the mean value bench scale of $102 \mu\text{g/L}$ recorded during the April 2007 sampling. The three remaining stations had readings below the bench scale value at all of the sampled water depths.
- Total Nitrogen – sample values ranged from a low of $870 \mu\text{g/L}$ in the lake to a high of $1,400 \mu\text{g/L}$ in the canal portion of Sawgrass Lake, which were all below the mean value bench scale reading of $8,188 \mu\text{g/L}$.
- Nitrogen, NO_2 plus NO_3 – the mean value bench scale was measured at an average of $32.1 \mu\text{g/L}$ in 2007. All four samples exceeded the average at station SLSW-1 (ranging from $72 \mu\text{g/L}$ to $84 \mu\text{g/L}$). The three remaining stations had readings below the bench scale value at all of the sampled water depths.
- Nitrogen, Kjeldahl, Total – all of the samples collected during December 2015 were below the pre-construction mean of $7,863 \mu\text{g/L}$. The collected samples ranged from $870 \mu\text{g/L}$ to $1,300 \mu\text{g/L}$.
- Hardness as CaCO_3 – collected values ranged from $170,000 \mu\text{g/L}$ to $197,000 \mu\text{g/L}$, which were all below the April 2007 mean value of $220,000 \mu\text{g/L}$.
- Calcium - collected values ranged from $57,900 \mu\text{g/L}$ to $66,900 \mu\text{g/L}$, which were all below the mean bench scale value of $75,500 \mu\text{g/L}$.
- Magnesium - collected values ranged from $5,890 \mu\text{g/L}$ to $7,240 \mu\text{g/L}$, which were all below the previous mean bench scale value of $7,813 \mu\text{g/L}$.
- pH – The SDWS for pH is any value within the range of 6.5 to 8.5. All of the pH readings at each measured depth at every sampling location were within the accepted SDWS standard range.

- Dissolved Oxygen - concentrations ranged from 0.60 mg/L to 8.85 mg/L. The surface water criteria for dissolved oxygen is ≥ 5 mg/L. All of the readings in the North/South canal were less than 5 mg/L. The lowest dissolved oxygen levels in the other samples were primarily recorded near the bottom of the respective water column.
- Salinity –values ranges from 0.24 ppt to 0.27 ppt, with little variation between depth and location.
- Specific Conductivity – the field measurements collected with the YSI sonde ranged from a low of 491 $\mu\text{S}/\text{cm}$ to high of 567 $\mu\text{S}/\text{cm}$ at sample station SLSW-1-4 in the canal portion of the lake.
- Turbidity – values at each site were very consistent between sample locations, with a small range from 6.0 NTU to 14.1 NTU.
- Temperature (water) – readings were between 21.00 °C at depth and 23.51 °C at the surface of the lake.

SUMMARY AND CONCLUSIONS

The results of the third quarterly sampling event at the Sawgrass Lake Site Restoration Project were generally consistent with the results of the prior two quarterly sampling events (in June and September 2015) and with previous (2000 to 2007) sampling events, with some exceptions, as discussed below.

There were two analytes detected in the groundwater that did not comply with their regulatory standards: pH and TDS were detected in the groundwater at concentrations in that did not comply with their regulatory criteria. Lead was (again) not detected in the groundwater samples, and notably, this was the first sampling event during which arsenic was also not detected in any of the groundwater samples. Unlike previous sampling events, findings of low pH (ranging from 6.11 to 6.41) were identified at all of the monitoring wells. TDS concentrations were higher than the pre-2011 data collected from the corresponding wells. 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. However, the TDS concentrations in most of the monitoring wells decreased significantly between the September 2015 sampling event and December 2015 sampling event.

There were two analytes measured in the surface water that exceeded the mean bench scale readings from April 12, 2007 during the December 15, 2015 sampling event. The Nitrogen, NO_2 plus NO_3 was elevated at four sample locations (all four samples at station SLSW-1). These

samples were also elevated during the September 2015 sampling event, as shown in **Table 2**. The results for Total Phosphorus had four samples with a reading above the bench scale data from 2007, all of which were at station SLSW-1 as well. The Phosphorus samples at Station SLSW-1 have also had previously elevated readings during the June and September 2015 sampling events, as shown in **Table 2**. During the December 2015 sampling event, there was extensive vegetation covering the water column in the canal portion of the lake where these elevated values occurred. All of the samples were tested for arsenic and lead, with each sample returning results that were less than the laboratory MDLs. Arsenic testing was not part of the original RAP surface water testing, but was added by Atkins for the 2nd and 3rd quarter monitoring events to compare with the groundwater results, with no detections at any surface water locations. Therefore, arsenic will be removed for the 4th quarter surface water sampling event. As observed previously in the June and September 2015 sampling events, the total hardness and conductivity data collected in December 2015 revealed significantly lower readings in the surface water compared to the values determined from the groundwater sampling.

Atkins recommends that the analytical results from the next sampling event be evaluated closely for any developing trends. After one more quarter 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 Atkins at (813) 477-7275 or bradley.bayne@atkinsglobal.com.



Date: 1-7-16

Bradley J. Bayne

Professional Geologist

No. 1733

State of Florida

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-1R-0915	SLMW-1R-1215	SLMW-2	SLMW-2-R	SLMW-2R-0615	SLMW-2R-0915	SLMW-2R-1215	Groundwater Criteria
Sampling Month	Aug. 2000	Nov. 2002	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	Aug. 2000	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	
Arsenic	290	230	2.6	5.3 U (5.3 U)	13.3 (15.2)	5.3 U (5.3 U)	BDL	20	5.3 U	5.3 U	5.3 U	10
Dissolved Arsenic	N/A	N/A	BDL	5.3 U (5.3 U)	5.3 U (5.3 U)	5.3 U (5.3 U)	N/A	19	5.3 U	5.3 U	5.3 U	10
Lead	28	34	3.5	8.5 U (8.5 U)	8.5 U (8.5 U)	8.5 U (8.5 U)	BDL	4.8	8.5 U	8.5 U	8.5 U	15
Dissolved Lead	N/A	N/A	0.71 I	8.5 U (8.5 U)	8.5 U (8.5 U)	8.5 U (8.5 U)	N/A	0.87 I	8.5 U	8.5 U	8.5 U	15
Calcium Hardness*	N/A	N/A	87.2	416 (405)	596 (590)	387 (378)	N/A	109	165	477	201	-
Magnesium Hardness*	N/A	N/A	9.56	130 (135)	78.1 (74.2)	133 (135)	N/A	19.3	19	17.5	36.6	-
Total Hardness*	N/A	N/A	96.76	1,570 (1,570)	1,810 (1,780)	1,510 (1,500)	N/A	128.3	490	1,260	653	-
Total Dissolved Solids	N/A	N/A	180,000	2,280,000 (2,250,000)	2,530,000 (2,630,000)	2,290,000 (2,160,000)	N/A	220,000	801,000	1,920,000	1,020,000	500,000

Analyte	SLMW-3	SLMW-3-R	SLMW-3R-0615	SLMW-3R-0915	SLMW-3R-1215	SLMW-4	SLMW-4-R	SLMW-4R-0615	SLMW-4R-0915	SLMW-4R-1215	Groundwater Criteria
Sampling Month	Aug. 2000	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	Aug. 2000	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	
Arsenic	110	29	32.4	31.3	5.3 U	18	11	5.3 U	5.3 U	5.3 U	10
Dissolved Arsenic	N/A	28	32.4	30.4	5.3 U	N/A	11	5.3 U	5.3 U	5.3 U	10
Lead	BDL	10	18.0	8.5 U	8.5 U	7.2	58	8.5 U	8.5 U	8.5 U	15
Dissolved Lead	N/A	2.3	13.7 I	8.5 U	8.5 U	N/A	54	8.5 U	8.5 U	8.5 U	15
Calcium Hardness*	N/A	272	360	400	232	N/A	76.2	207	313	113	-
Magnesium Hardness*	N/A	15.8	40.0	29.4	17.0	N/A	15.3	70.2	27.5	12.3	-
Total Hardness*	N/A	287.8	1,060	1,120	649	N/A	91.5	805	896	334	-
Total Dissolved Solids	N/A	430,000	1,720,000	1,900,000	1,040,000	N/A	300,000	1,130,000	1,500,000	599,000	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

Parameter	SLSW-1-0			SLSW-1-1			SLSW-1-2			SLSW-1-3			SLSW-1-4		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U	Not Tested	5.0 U	5.0 U	Not Tested	5.0 U	Not Tested
Calcium (µg/L)	42,300	63,400	64,200	44,000	62,500	66,900	40,800	62,700	66,100		62,500	66,300		62,800	
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U	5.0 U		5.0 U	
Magnesium (µg/L)	3,040	4,960	7,230	3,270	5,010	7,240	3,940	4,990	7,240		4,970	7,170		4,990	
Nitrogen, Kjeldahl, Total (µg/L)	550	620	930	990	980	1,200	1,500	500	1,300		690	1,200		600	
Nitrogen, NO2 plus NO3 (µg/L)	46 I	150	84	44 I	350	72	30 I	170	83		170	84		170	
Phosphorus, Total (as P) (µg/L)	62 I	69 I	170	140	130	150	190	53 I	210		84 I	200		71 I	
Total Hardness asCaCO3 (µg/L)	118,000	179,000	190,000	123,000	177,000	197,000	118,000	177,000	195,000		177,000	195,000		177,000	
Total Nitrogen (µg/L)	600	770	1,000	1,000	1,300	1,200	1,500	670	1,400		860	1,300		770	

Mean Value Bench Scale	Class III Surface Water Standard
April 2007	
13.3	≤ 50
75,500	-
10	< 8.68
7,813	-
7,863	-
32.1	-
102	-
220,000	-
8,188	-

Parameter	SLSW-2-0			SLSW-2-1			SLSW-2-3			SLSW-2-5		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U
Calcium (µg/L)	42,200	46,300	59,100	42,100	45,900	59,100	41,600	42,200	59,200	42,300	41,800	58,400
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium (µg/L)	4,150	3,450	6,190	4,170	3,430	6,270	4,070	3,060	6,050	4,140	3,030	6,340
Nitrogen, Kjeldahl, Total (µg/L)	1,100	620	900	810	640	870	880	580	920	840	610	910
Nitrogen, NO2 plus NO3 (µg/L)	28 I	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phosphorus, Total (as P) (µg/L)	61 I	50 U	50 U	65 I	50 U	54 I	71 I	50 U	50 U	66 I	59 I	58 I
Total Hardness asCaCO3 (µg/L)	123,000	130,000	173,000	122,000	129,000	173,000	121,000	118,000	173,000	123,000	117,000	172,000
Total Nitrogen (µg/L)	1,100	630	910	830	640	870	890	590	920	860	620	910

Mean Value Bench Scale	Class III Surface Water Standard
April 2007	
13.3	≤ 50
75,500	-
10	< 8.68
7,813	-
7,863	-
32.1	-
102	-
220,000	-
8,188	-

Parameter	SLSW-3-0			SLSW-3-1			SLSW-3-3			SLSW-3-5		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U
Calcium (µg/L)	42,400	41,800	58,400	42,200	41,200	58,000	42,200	42,700	58,500	41,900	42,600	58,800
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Magnesium (µg/L)	4,130	3,050	6,060	4,100	3,040	6,100	4,080	3,120	6,020	4,000	3,100	6,050
Nitrogen, Kjeldahl, Total (µg/L)	730	710	870	670	710	890	770	670	950	900	660	880
Nitrogen, NO2 plus NO3 (µg/L)	36 I	35 I	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phosphorus, Total (as P) (µg/L)	55 I	69 I	50 I	51 I	61 I	53 I	55 I	66 I	50 U	93 I	63 I	50 U
Total Hardness asCaCO3 (µg/L)	123,000	117,000	171,000	122,000	115,000	170,000	122,000	120,000	171,000	121,000	119,000	172,000
Total Nitrogen (µg/L)	770	750	870	690	720	890	780	670	950	910	660	880

Mean Value Bench Scale	Class III Surface Water Standard
April 2007	
13.3	≤ 50
75,500	-
10	< 8.68
7,813	-
7,863	-
32.1	-
102	-
220,000	-
8,188	-

Parameter	SLSW-4-0			SLSW-4-1			SLSW-4-3			SLSW-4-5			SLSW-4-9		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*			*	5.0 U	5.0 U	Not Tested	Not Tested	5.0 U
Calcium (µg/L)	42,400	41,400	58,300	42,100	42,000	57,900	40,400			69,700	39,500	58,300			5.0 U
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U			5.0 U	5.0 U	5.0 U			5.0 U
Magnesium (µg/L)	4,110	3,020	6,050	4,060	3,040	6,100	3,800			3,760	2,910	6,080			3,280
Nitrogen, Kjeldahl, Total (µg/L)	840	590	910	840	570	930	760			3,760	2,910	6,080			5,890
Nitrogen, NO2 plus NO3 (µg/L)	840	590	910	840	570	930	760			790	720	940			770
Phosphorus, Total (as P) (µg/L)	30 I	310	25 U	25 U	25 U	25 U	25 U			790	720	940			960
Total Hardness asCaCO3 (µg/L)	67 I	70 I	53 I	65 I	50 U	58 I	61 I			25 U	25 U	25 U			25 U
Total Nitrogen (µg/L)	123,000	116,000	170,000	122,000	118,000	170,000	117,000			68 I	66 I	55 I			78 I
	870	900	910	860	580	930	770			189,000	111,000	171,000			73 I
										800	720	940			122,000
															170,000
															770
															960

Mean Value Bench Scale	Class III Surface Water Standard
April 2007	
13.3	≤ 50
75,500	-
10	<8.68
7,813	-
7,863	-
32	-
102	-
220,000	-
8,188	-

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
* = Arsenic not tested for during June 2015 sampling

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

Parameter	SLSW-1-0			SLSW-1-1			SLSW-1-2			SLSW-1-3			SLSW-1-4		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	27.39	29.08	23.51	27.40	29.03	23.36	Not Tested	28.91	21.24	Not Tested	28.83	21.00
Specific Conductivity (µS/cm)	*	*	*	342	464	529	338	464	529		464	546		470	567
Salinity (ppt)	*	*	*	0.16	0.22	0.25	0.16	0.22	0.26		0.22	0.26		0.22	0.27
pH	*	*	*	6.49	7.10	7.00	6.62	7.14	6.90		7.14	6.73		7.04	6.71
Dissolved Oxygen (mg/L)	*	*	*	1.82	2.74	3.17	1.37	2.84	2.67		2.80	0.81		2.13	0.60
Dissolved Oxygen (%)	*	*	*	22.3	21.1	37.2	17.3	37	31.3		36.4	9.1		27.3	6.8
Turbidity (NTU)	*	*	*	7.3	7.4	13.6	8.5	7.2	14.1		7.1	7.4		7.8	6.0

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

Parameter	SLSW-2-0			SLSW-2-1			SLSW-2-3			SLSW-2-5		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	28.56	29.42	23.17	28.55	29.08	23.14	28.47	28.99	23.11
Specific Conductivity (µS/cm)	*	*	*	378	337	492	378	337	492	379	336	493
Salinity (ppt)	*	*	*	0.18	0.16	0.24	0.18	0.16	0.24	0.18	0.16	0.24
pH	*	*	*	7.66	7.05	7.64	7.71	6.90	7.58	7.67	6.84	7.50
Dissolved Oxygen (mg/L)	*	*	*	6.27	5.99	8.65	6.24	4.60	8.44	5.48	3.96	8.12
Dissolved Oxygen (%)	*	*	*	80.9	78.3	101.4	80.5	59.8	98.8	70.5	51.3	95.0
Turbidity (NTU)	*	*	*	8.2	7.0	8.8	8.1	22.2	8.6	7.8	29.3	8.9

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

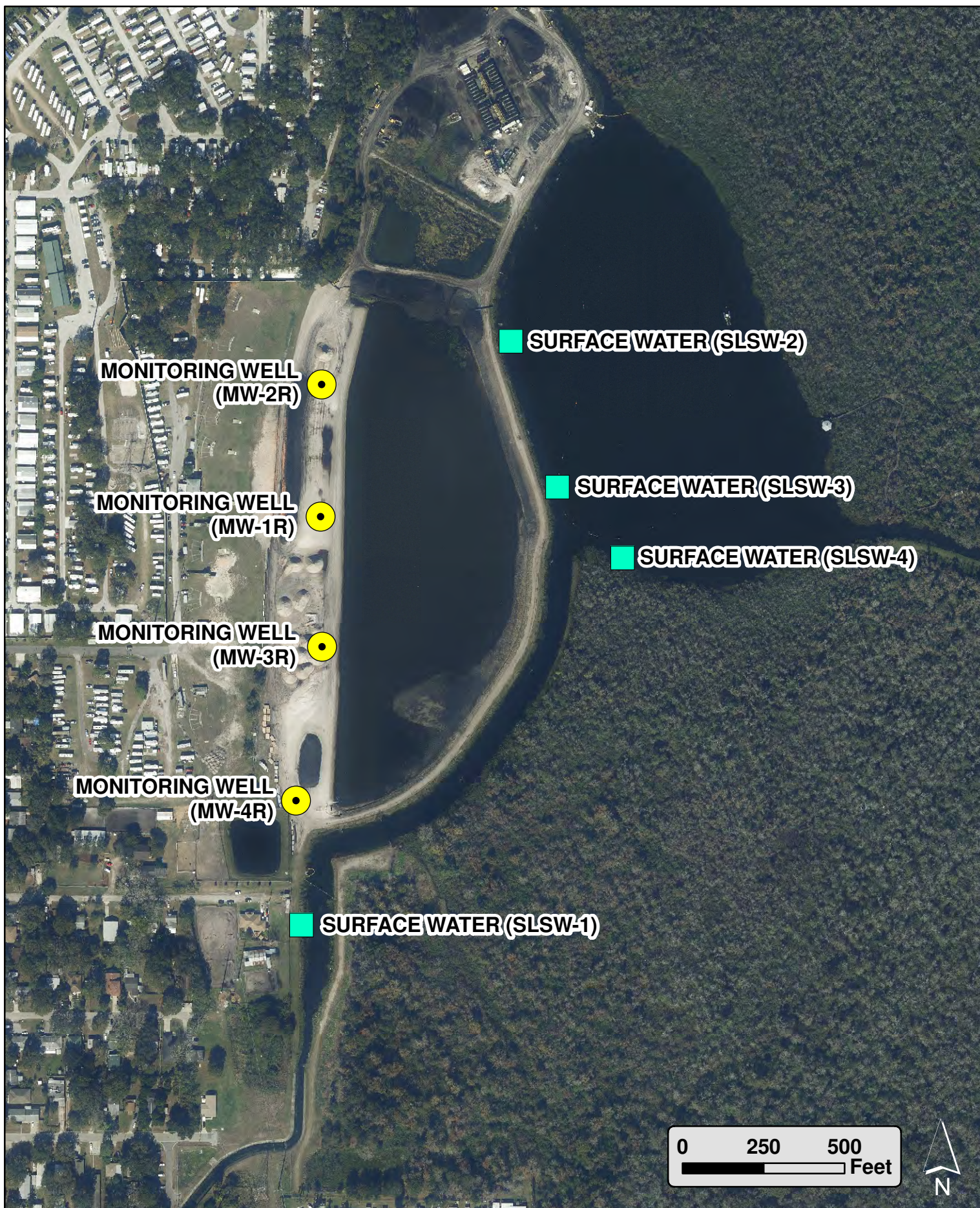
Parameter	SLSW-3-0			SLSW-3-1			SLSW-3-3			SLSW-3-5		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	29.40	29.35	23.24	29.34	29.10	23.11	29.36	28.47	22.93
Specific Conductivity (µS/cm)	*	*	*	381	331	491	381	336	492	381	329	493
Salinity (ppt)	*	*	*	0.18	0.16	0.24	0.18	0.16	0.24	0.18	0.16	0.24
pH	*	*	*	7.63	7.19	7.82	7.62	6.91	7.67	7.66	6.65	7.52
Dissolved Oxygen (mg/L)	*	*	*	7.86	6.46	8.85	7.57	1.50	8.25	7.55	0.52	7.10
Dissolved Oxygen (%)	*	*	*	103.0	84.5	103.7	99.2	19.4	96.5	98.8	6.7	82.4
Turbidity (NTU)	*	*	*	8.6	6.9	9.0	8.5	7.1	8.9	8.9	7.8	9.2

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

Parameter	SLSW-4-0			SLSW-4-1			SLSW-4-3			SLSW-4-5			SLSW-4-9		
	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	29.45	29.60	23.15	28.86	29.21	23.03	28.86	28.11	22.94	Not Tested	26.52	22.05
Specific Conductivity (µS/cm)	*	*	*	378	328	491	382	329	493	364	317	494		989	496
Salinity (ppt)	*	*	*	0.18	0.15	0.24	0.18	0.15	0.24	0.17	0.15	0.24		0.49	0.24
pH	*	*	*	7.85	6.79	7.82	7.22	6.58	7.74	7.01	6.04	7.58		5.23	6.95
Dissolved Oxygen (mg/L)	*	*	*	7.73	7.70	8.67	5.55	5.36	7.72	3.11	1.58	7.39		0.29	2.06
Dissolved Oxygen (%)	*	*	*	101.3	101.0	101.5	71.6	69.4	90.1	40.0	20.1	86.2		3.6	23.6
Turbidity (NTU)	*	*	*	8.6	6.6	8.7	8.5	6.9	8.5	8.3	6.9	8.6		15.5	9.8

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

FIGURES



**FIGURE 1. GROUNDWATER AND
SURFACE WATER SAMPLING LOCATIONS**

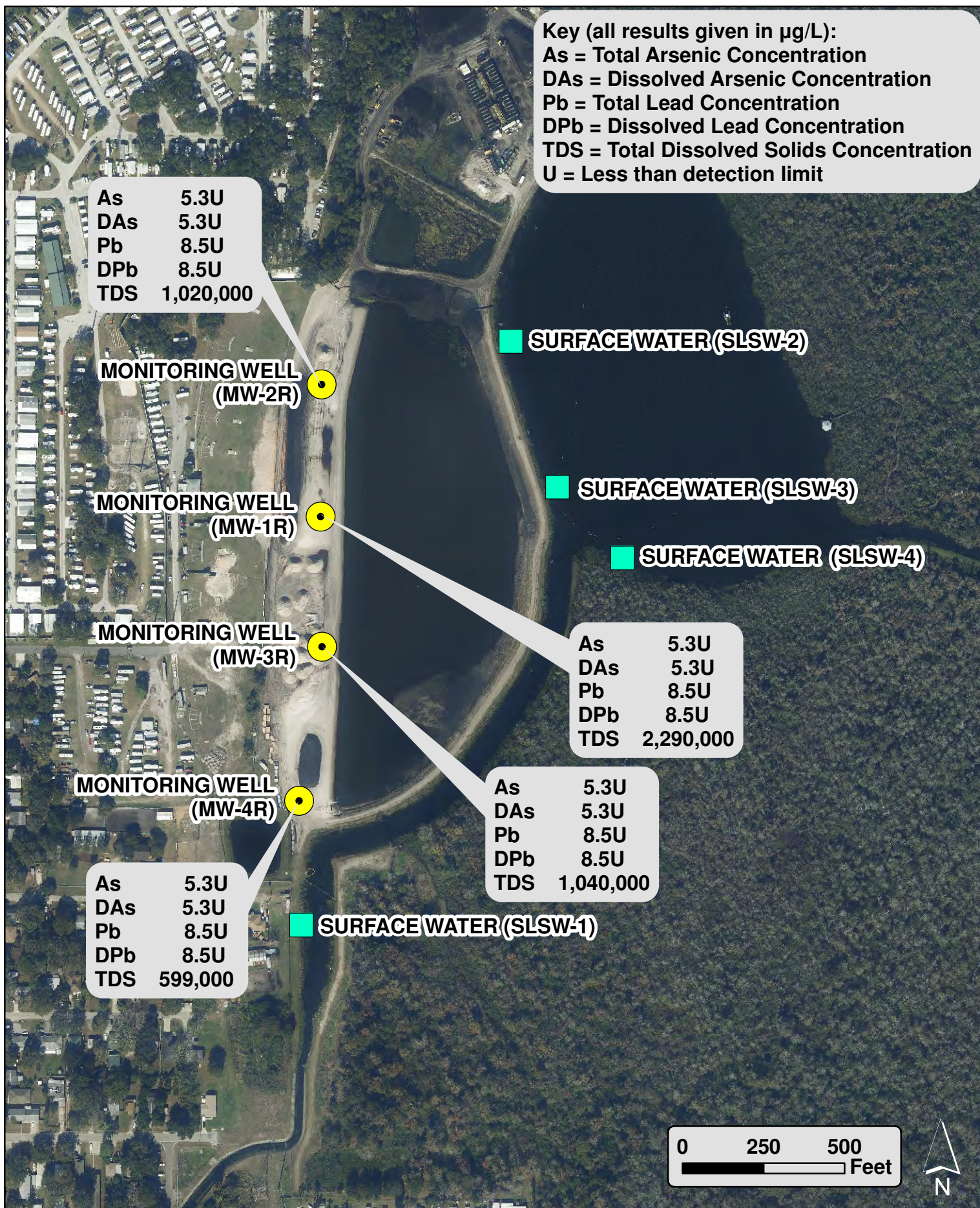


FIGURE 2. DECEMBER 2015 GROUNDWATER SAMPLING RESULTS

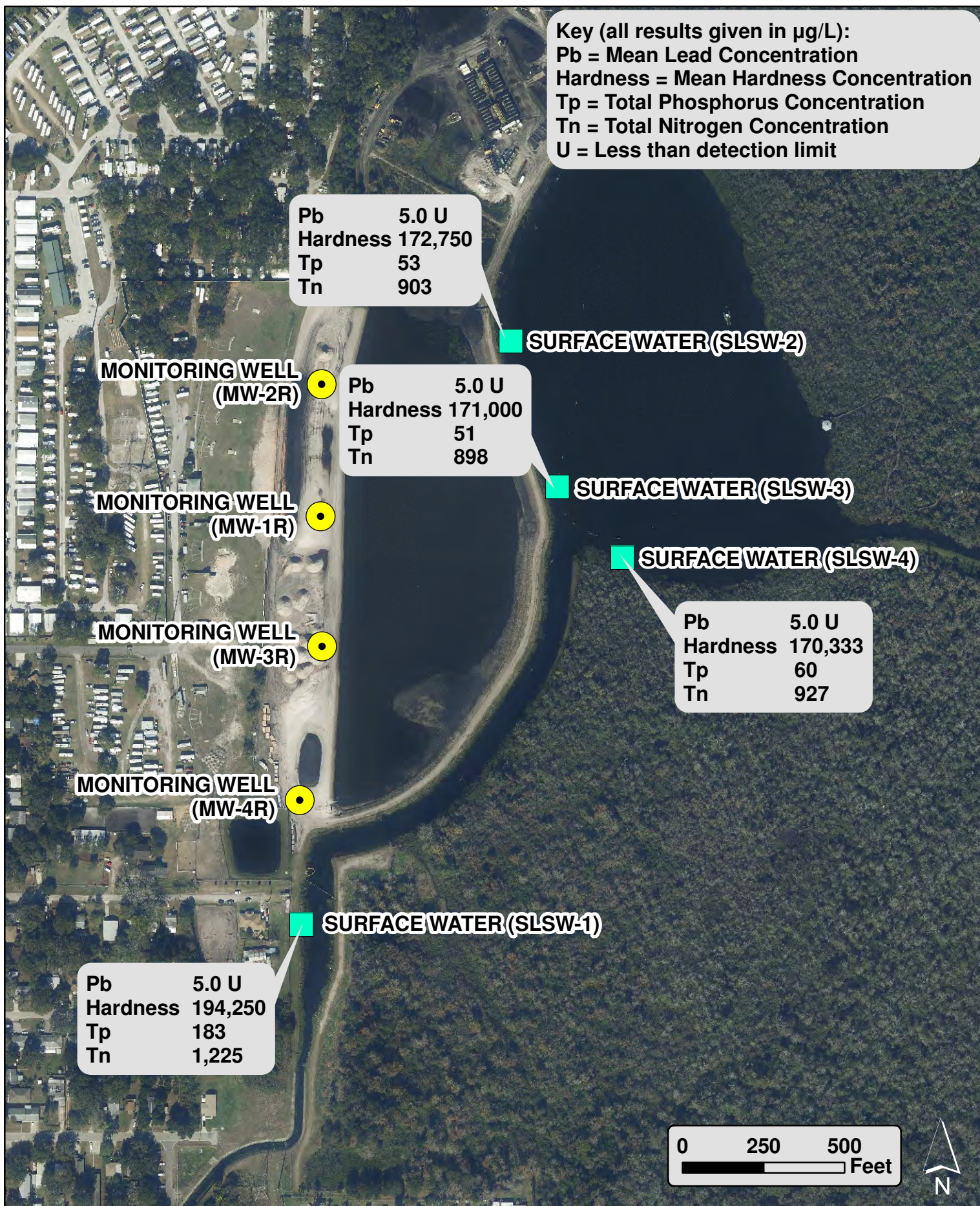


FIGURE 3. DECEMBER 2015 SURFACE WATER SAMPLING RESULTS

ATTACHMENT A

Groundwater Sampling Logs and Field Equipment Calibration Logs

Form FD 9000-24

SITE NAME: Sawgrass Lake Site		SITE LOCATION: Pinellas Park	
WELL NO: MW-1R	SAMPLE ID: SLMW-1R-1215	DATE: 12/15/15	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: <u>2.7</u> feet to <u>12.7</u> feet	STATIC DEPTH TO WATER (feet): <u>3.13</u>	PURGE PUMP TYPE OR BAILER: <u>Peristaltic</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (\underline{12.7} \text{ feet} - \underline{3.13} \text{ feet}) \times \underline{0.16} \text{ gallons/foot} = \underline{1.53} \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \underline{0} \text{ gallons} + (\underline{0.0026} \text{ gallons/foot} \times \underline{5.5} \text{ feet}) + \underline{0.2} \text{ gallons} = \underline{0.214} \text{ gallons}$				

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins				SAMPLER(S) SIGNATURE(S): <i>Brad Bayne</i>			SAMPLING INITIATED AT: 10:45		SAMPLING ENDED AT: 10:50	
PUMP OR TUBING DEPTH IN WELL (feet): 5.5				TUBING MATERIAL CODE: HDPE + S			FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type:		FILTER SIZE: <u>1</u> µm	
FIELD DECONTAMINATION: PUMP <input type="radio"/> Y <input checked="" type="radio"/> N				TUBING <input type="radio"/> Y <input checked="" type="radio"/> N (replaced)			DUPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ 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-1215
		DATE:	12/15/15

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	3.04	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 - 3.04 feet) X 0.16 gallons/foot = 1.71 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= 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	12:05	6.0							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe) Light	ODOR (describe)
11:35	3.0	3.0	0.1	3.35	6.33	24.08	1209	1.01	12.2	Black	None
11:40	0.5	3.5	0.1	3.34	6.24	24.07	1200	0.76	12.0	Clear	
11:45	0.5	4.0	0.1	3.34	6.20	24.07	1197	0.61	10.6		
11:50	0.5	4.5	0.1	3.35	6.17	24.04	1195	0.40	9.89		
11:55	0.5	5.0	0.1	3.33	6.14	24.05	1190	0.36	9.28		
12:00	0.5	5.5	0.1	3.34	6.12	24.03	1195	0.29	8.68		
12:05	0.5	6.0	0.1	3.35	6.11	24.04	1197	0.28	7.70	↓	↓
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 12:05		SAMPLING ENDED AT: 12:07		
PUMP OR TUBING DEPTH IN WELL (feet): 5				TUBING MATERIAL CODE: HDPE + S			FIELD-FILTERED: (Y) N Filtration Equipment Type:		FILTER SIZE: 1 μ m		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)			DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)		FINAL pH				
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 = Bailor; 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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME:	Sawgrass Lake site		SITE LOCATION:	Pinellas Park	
WELL NO:	mw-3R	SAMPLE ID:	SLmw-3R-1215	DATE:	12/15/15

PURGING DATA

WELL	TUBING	WELL SCREEN INTERVAL	STATIC DEPTH	PURGE PUMP TYPE OR BAILER:							
DIAMETER (inches): <u>2</u>	DIAMETER (inches): <u>V4</u>	DEPTH: <u>3.1</u> feet to <u>13.1</u> feet	TO WATER (feet): <u>3.61</u>	<u>Peristaltic</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (\underline{13.1} \text{ foot} - \underline{3.61} \text{ feet}) \times \underline{0.16} \text{ gallons/foot} = \underline{1.5}$ gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \underline{0}$ gallons + ($\underline{0.0026}$ gallons/foot X $\underline{5.5}$ feet) + $\underline{0.2}$ gallons = $\underline{0.214}$ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.5</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>5.5</u>		PURGING INITIATED AT: <u>8:45</u>							
				PURGING ENDED AT: <u>9:35</u>							
				TOTAL VOLUME PURGED (gallons): <u>5.0</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH <small>(standard units)</small>	TEMP. <small>(°C)</small>	COND. <small>(circle units) µmhos/cm or µS/cm</small>	DISSOLVED OXYGEN <small>(circle units) mg/L or % saturation</small>	TURBIDITY <small>(NTUs)</small>	COLOR <small>(describe)</small>	ODOR <small>(describe)</small>
9:15	3.0	3.0	0.1	3.79	6.48	24.17	1304	0.53	1.71	clear	Slight sulfur
9:20	0.5	3.5	0.1	3.78	6.45	24.19	1307	0.44	1.31		↓
9:25	0.5	4.0	0.1	3.79	6.43	24.19	1312	0.40	0.91		None
9:30	0.5	4.5	0.1	3.80	6.42	24.19	1315	0.41	0.89	↓	↓
9:35	0.5	5.0	0.1	3.80	6.41	24.20	1316	0.40	1.21	↓	↓
WELL CAPACITY (Gallons Per Foot): <u>0.75"</u> = 0.02; <u>1"</u> = 0.04; <u>1.25"</u> = 0.06; <u>2"</u> = 0.16; <u>3"</u> = 0.37; <u>4"</u> = 0.65; <u>5"</u> = 1.02; <u>6"</u> = 1.47; <u>12"</u> = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): <u>1/8"</u> = 0.0006; <u>3/16"</u> = 0.0014; <u>1/4"</u> = 0.0026; <u>5/16"</u> = 0.004; <u>3/8"</u> = 0.006; <u>1/2"</u> = 0.010; <u>5/8"</u> = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins				SAMPLER(S) SIGNATURE(S): <i>Brad Bayne</i>			SAMPLING INITIATED AT: 9:35		SAMPLING ENDED AT: 9:37		
PUMP OR TUBING DEPTH IN WELL (feet): 5.5				TUBING MATERIAL CODE: HDPE + S			FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type:		FILTER SIZE: 1 μ m		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N				TUBING Y <input checked="" type="radio"/> N (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (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-1215	DATE:	12/15/15

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins				SAMPLER(S) SIGNATURE(S): <i>Brad Bayne</i>			SAMPLING INITIATED AT: 8:34		SAMPLING ENDED AT: 8:36	
PUMP OR TUBING DEPTH IN WELL (feet): 5.5				TUBING MATERIAL CODE: HDPE + S		FIELD-FILTERED: <input checked="" type="checkbox"/> N Filtration Equipment Type:		FILTER SIZE: 1 μ m		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
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 = Bailor; 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:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

INSTRUMENT (MAKE/MODEL#) YSI 556 INSTRUMENT # 14d1988ds
PARAMETER: [check only one] (rented from Peterson Environmental)

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 _____

Revision Date: January 1, 2002

INSTRUMENT (MAKE/MODEL#) YSI 556 INSTRUMENT # 14d1988ds
PARAMETER: [check only one] (rented from Peterson Environmental)

ATTACHMENT B

Surface Water YSI Sampling Logs and Calibration Logs

Date: 2015/12/15 (yy/mm/dd) Hydrolab/YSI Unit #: 9011 Jett

Calibration Book Number: 14091961 Calibration Book Page #: 3

Air Temperature: _____ Wind: 5-10 ESE

Tide Stage: N/A Cloud Cover: 100%

Reporting Unit

Geo Stratum: Saugrass Lake

Time On Station	Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)/(%)	Turbidity (NTU)	Check If Bottom
<u>1110</u>	0.2	<u>23.51</u>	<u>529</u>	<u>0.25</u>	<u>7.00</u>	<u>3.17/37.2</u>	<u>13.6</u>	<input type="checkbox"/>
24 hr. / EST	0.5	<u>23.36</u>	<u>529</u>	<u>0.26</u>	<u>6.90</u>	<u>2.67/31.3</u>	<u>14.1</u>	<input type="checkbox"/>
Stratum/	1.0	<u>21.24</u>	<u>546</u>	<u>0.26</u>	<u>6.73</u>	<u>0.81/9.1</u>	<u>7.4</u>	<input type="checkbox"/>
Station # <u>SLSW-1</u>	1.5	<u>21.00</u>	<u>567</u>	<u>0.27</u>	<u>6.71</u>	<u>0.60/6.8</u>	<u>6.0</u>	<input checked="" type="checkbox"/>
	2.0							<input type="checkbox"/>
	2.5							<input type="checkbox"/>
Alt # / Lateral Pos. /	3.0							<input type="checkbox"/>
	3.5							<input type="checkbox"/>
Secchi depth (meters)	4.0							<input type="checkbox"/>
	4.5							<input type="checkbox"/>
Secchi @ bottom <input type="checkbox"/> Yes	5.0							<input type="checkbox"/>
	5.5							<input type="checkbox"/>
Water depth <u>1.5</u> <u>1.5</u> (meters)	6.0							<input type="checkbox"/>
(water column depth)	6.5							<input type="checkbox"/>

Latitude Degrees _____ Decimal Minutes _____ Longitude Degrees _____ Decimal Minutes _____

Projected: _____ 82 _____

Actual: 27. 83712 82 . 67542

Samples: Check Container Numbers ☐ Check Custody Forms ☐

Sample Taken Samples Processed Samples Preserved Sediment Sample Taken

(check): ☐ ☐ ☐ ☐

Field Notes: Wet sample depth | time | depth by survey rod

<u>0</u>	<u>1125</u>	
<u>1</u>	<u>1130</u>	
<u>2</u>	<u>1135</u>	
<u>3</u>	<u>1138</u>	

Signed _____ Date _____ Signed _____ Date _____

Notebook # 151215DB1 Project: Saugrass LakeTask: WQ Quarterly MonitoringPage # 9Date: 2015/12/15 (yy/mm/dd)Hydrolab/YSI Unit #: gelf/YSI 6920 JCHCalibration Book Number: 140919CL1Calibration Book Page #: gelf/JCH 3

Air Temperature: _____

Wind: 10-15 ETide Stage: N/ACloud Cover: 100%

Reporting Unit

Geo Stratum: Saugrass Lake

Time On Station	Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)/(%)	Turbidity (NTU)	Check If Bottom
<u>0911</u>	0.2	<u>23.17</u>	<u>492</u>	<u>0.24</u>	<u>7.64</u>	<u>8.65/101.4</u>	<u>8.8</u>	<input type="checkbox"/>
24 hr. / EST	0.5	<u>23.16</u>	<u>492</u>	<u>0.24</u>	<u>7.61</u>	<u>8.61/101.0</u>	<u>8.7</u>	<input type="checkbox"/>
Stratum/ <u>/</u>	1.0	<u>23.14</u>	<u>492</u>	<u>0.24</u>	<u>7.58</u>	<u>8.44/98.8</u>	<u>8.6</u>	<input type="checkbox"/>
	1.5	<u>23.11</u>	<u>493</u>	<u>0.24</u>	<u>7.50</u>	<u>8.12/95.0</u>	<u>8.9</u>	<input type="checkbox"/>
Station # <u>SLSW-2</u>	2.0	<u>22.89</u>	<u>493</u>	<u>0.24</u>	<u>7.36</u>	<u>6.12/71.8</u>	<u>8.9</u>	<input type="checkbox"/>
	<u>2.5</u>	<u>22.57</u>	<u>494</u>	<u>0.24</u>	<u>7.12</u>	<u>5.34/61.8</u>	<u>11/610.1</u>	<input checked="" type="checkbox"/>
Alt # <u>/</u> Lateral Pos. <u>/</u>	3.0							<input type="checkbox"/>
	3.5							<input type="checkbox"/>
Secchi depth _____	4.0							<input type="checkbox"/>
(meters)	4.5							<input type="checkbox"/>
Secchi @ bottom <input type="checkbox"/> Yes	5.0							<input type="checkbox"/>
	5.5							<input type="checkbox"/>
Water depth <u>2.1</u>	6.0							<input type="checkbox"/>
(water column depth)	6.5							<input type="checkbox"/>

Latitude
Degrees

Decimal Minutes

Longitude
Degrees

Decimal Minutes

Projected: _____ 82 _____

Actual: 27.84157 82 .67371Samples: Check Container Numbers ☐ Check Custody Forms ☐

Sample Taken

Samples Processed

Samples Preserved

Sediment Sample Taken

(check):

Depth ☐ Time ☐

Field Notes:

0- 09311 09343 09375 0939depth → 11.2
by survey rod

Signed _____

Date _____

Signed _____

Date _____

Notebook # 151215DB1 Project: Saugrass Lake Task: WQ quarterly sampling Page # 10

Date: 2015/12/15 (yy/mm/dd)

Hydrolab/YSI Unit #: golf/LSA

Calibration Book Number: 140919CL1

Calibration Book Page #: 3

Air Temperature: _____

Wind: 5-10ESE

Tide Stage: N/A

Cloud Cover: 100%

Reporting Unit

Geo Stratum: Saugrass Lake

Time On Station	Depth (m)	Temperature (C)	Specific Cond. (µS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)/(%)	Turbidity (NTU)	Check If Bottom
<u>0945</u>	0.2	<u>23.24</u>	<u>491</u>	<u>0.24</u>	<u>7.82</u>	<u>8.85/103.7</u>	<u>9.0</u>	<input type="checkbox"/>
24 hr. / EST	0.5	<u>23.24</u>	<u>491</u>	<u>0.24</u>	<u>7.79</u>	<u>8.84/103.6</u>	<u>9.0</u>	<input type="checkbox"/>
Stratum/ <u>/</u>	1.0	<u>23.11</u>	<u>492</u>	<u>0.24</u>	<u>7.67</u>	<u>8.25/96.5</u>	<u>8.9</u>	<input type="checkbox"/>
	1.5	<u>22.93</u>	<u>493</u>	<u>0.24</u>	<u>7.52</u>	<u>7.10/82.4</u>	<u>9.2</u>	<input type="checkbox"/>
Station # <u>SLSW-3</u>	2.0	<u>22.53</u>	<u>494</u>	<u>0.24</u>	<u>7.25</u>	<u>6.05/70.1</u>	<u>9.4</u>	<input type="checkbox"/>
	2.5	<u>22.15</u>	<u>495</u>	<u>0.24</u>	<u>7.07</u>	<u>3.09/35.4</u>	<u>10.8</u>	<input type="checkbox"/>
Alt # <u>/</u> Lateral Pos. <u>/</u>	3.0	<u>21.93</u>	<u>496</u>	<u>0.24</u>	<u>6.85</u>	<u>1.81/20.7</u>	<u>12.3</u>	<input checked="" type="checkbox"/>
	3.5							<input type="checkbox"/>
Secchi depth _____	4.0							<input type="checkbox"/>
(meters)	4.5							<input type="checkbox"/>
Secchi @ bottom <input type="checkbox"/> Yes	5.0							<input type="checkbox"/>
	5.5							<input type="checkbox"/>
Water depth <u>2.8</u>	6.0							<input type="checkbox"/>
(water column depth)	6.5							<input type="checkbox"/>

Latitude Degrees _____ Decimal Minutes _____ Longitude Degrees 82 Decimal Minutes _____

Projected: _____

Actual: 27.84058 82.67332

Samples: Check Container Numbers ☐ Check Custody Forms ☐

Sample Taken _____ Samples Processed _____ Samples Preserved _____ Sediment Sample Taken _____

(check): ☐ ☐ ☐ ☐

Field Notes: _____

Depth wQ Sample	Time
<u>0</u>	<u>0953</u>
<u>1</u>	<u>0956</u>
<u>3</u>	<u>0958</u>
<u>5</u>	<u>1000</u>

Signed _____ Date _____ Signed _____ Date _____

Date: 2015/12/15 (yy/mm/dd)

Hydrolab/YSI Unit #: golf/lett

Calibration Book Number: 14091961

Calibration Book Page #: 3

Air Temperature: _____

Wind: 0-5 ESE

Tide Stage: N/A

Cloud Cover: 100%

Reporting Unit

Geo Stratum: Saugras Lake

Time On Station	Depth (m)	Temperature (C)	Specific Cond. (uS/cm)	Salinity (ppt)	pH	Dissolved Oxygen (mg/L)/(%)	Turbidity (NTU)	Check If Bottom
<u>1005</u>	0.2	<u>23.15</u>	<u>491</u>	<u>0.24</u>	<u>7.82</u>	<u>8.67/101.5</u>	<u>8.7</u>	<input type="checkbox"/>
24 hr. / EST	0.5	<u>23.11</u>	<u>492</u>	<u>0.24</u>	<u>7.77</u>	<u>8.22/96.1</u>	<u>8.6</u>	<input type="checkbox"/>
Stratum/ <u>/</u>	1.0	<u>23.03</u>	<u>493</u>	<u>0.24</u>	<u>7.74</u>	<u>7.72/90.1</u>	<u>8.5</u>	<input type="checkbox"/>
	1.5	<u>22.94</u>	<u>494</u>	<u>0.24</u>	<u>7.58</u>	<u>7.39/86.2</u>	<u>8.6</u>	<input type="checkbox"/>
Station # <u>SLSW-4</u>	2.0	<u>22.55</u>	<u>495</u>	<u>0.24</u>	<u>7.22</u>	<u>4.95/57.1</u>	<u>9.0</u>	<input type="checkbox"/>
	2.5	<u>22.05</u>	<u>496</u>	<u>0.24</u>	<u>6.95</u>	<u>2.06/23.6</u>	<u>9.8</u>	<input type="checkbox"/>
Alt # <u>/</u> Lateral Pos. <u>/</u>	3.0	<u>21.91</u>	<u>495</u>	<u>0.24</u>	<u>6.90</u>	<u>1.57/17.9</u>	<u>12.2</u>	<input type="checkbox"/>
	3.5							<input type="checkbox"/>
Secchi depth _____	4.0							<input type="checkbox"/>
(meters)	4.5							<input type="checkbox"/>
Secchi @ bottom <input type="checkbox"/> Yes	5.0							<input type="checkbox"/>
	5.5							<input type="checkbox"/>
Water depth <u>3.0</u>	6.0							<input type="checkbox"/>
(water column depth)	6.5							<input type="checkbox"/>

Latitude Degrees _____ Decimal Minutes _____ Longitude Degrees 82 Decimal Minutes _____

Projected: _____ Actual: 27.83997 82.67258

Samples: Check Container Numbers ☐ Check Custody Forms ☐

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

Field Notes: Depth WQ samples Time depth by survey rod
0 1028
1 1030
5/BUP 1032
9 1030
10

Signed _____ Date _____ Signed _____ Date _____

Project Sawgrass Task _____
 Display Model 650 MDS Sonde Model 6920 V2
 Unit Serial# 6elt / Jeff Name of Calibrator JICW
 Date 15/12/14 Time 12:53

ICV represents the Initial Calibration Verification. This should be completed in run mode after the instrument has been calibrated with the standard solution still in the calibration cup.

NOTE: All optical sensors MUST be calibrated in the upright position.

1. SPECIFIC CONDUCTIVITY:

- a. Rinse twice with Hi standard (standards must "bracket" observed field values)
 b. Fill cup with conductivity standard (insure vent hole is covered)

	Standard $\mu\text{S/cm}$	Lot ID#	Standard Temp ($^{\circ}\text{C}$)	Before $\mu\text{S/cm}$	After $\mu\text{S/cm}$	Cal. Constant	ICV $\mu\text{S/cm}$	Pass (Y/N) +/- 5%
Hi	53000	150915B	25.34	53440	53000	4.91327	53001	Y
Low	500	150504A	25.30				516	Y

- c. Rinse twice with D.I. water
 d. Perform check with Low standard

2a. pH

- a. Rinse twice with pH 7 standard
 b. Fill cup with pH 7 standard

Standard	Lot ID#	Standard Temp ($^{\circ}\text{C}$)	Before	After	Pass (Y/N) +/- 0.2	mV
7.00	150915A	25.11	7.08	7.00	Y	-32.4

- c. Rinse twice with clean water
 d. Rinse twice with pH 10 standard
 e. Fill cup with pH 10 standard

Standard	Lot ID#	Standard Temp ($^{\circ}\text{C}$)	Before	After	ICV	Pass (Y/N) +/- 0.2	mV
10.00	150504E	25.31	9.95	10.00	10.00	Y	-183.4

- f. Rinse twice with clean water
 g. Repeat steps a and b and check pH 7 again

Standard	Lot ID#	Standard Temp ($^{\circ}\text{C}$)	ICV	Pass (Y/N) +/- 0.2	Cal. Constant
7.00	150915A	25.12	7.01	Y	-5.922

- h. Rinse twice with D.I. water
 j. Rinse twice with clean water

3. DISSOLVED OXYGEN:

- a. Place in a bucket with oxygen saturated water (air stone min. 1 hour); allow to equilibrate.

Temp (°C)	Bar. Press	Before mg/L	Before %	Theoretical mg/L (from chart)	Pass (Y/N) +/- 0.3 mg/L	DO Charge
24.23	760.0	8.39	100.3	8.387	Y	~

After mg/L	After %	ICV Temp (°C)	ICV mg/L	ICV %	Theoretical mg/L (from chart)	Pass (Y/N) +/- 0.3 mg/L	Cal. Constant
8.36	100.0	24.23	8.38	100.2	8.387	Y	1.07006

- b. Rinse twice with clean water

4. **DEPTH** (at surface): Depth before -0.023m Depth after 0.000m5. **BATTERY CHECK:** Surface Unit Voltage 12.2 Sonde Voltage 11.5Were batteries charged/replaced? no6. **NOTES:** NTU 0 → 0

7.0 **UNIT STATUS:** **Good** **Minor Repairs** **Major Repairs**

1) Sonde ☒ ☐ ☐

2) Surface Unit ☒ ☐ ☐

3) Cables ☒ ☐ ☐

8.0 CALIBRATION VERIFICATION

	4-Hour				8-Hour				After Use			
Date												
Time												
Name of Calibrator												
Parameter	4-Hour Solution	4-Hour Solution Temp.	4-Hour Check	Pass? (Y/N)	8-Hour Solution	8-Hour Solution Temp.	8-Hour Check	Pass? (Y/N)	After Use Solution	After Use Solution Temp.	After Use Check	Pass? (Y/N)
Conductivity (high)												
Conductivity (low)												
pH												
Dissolved Oxygen												
DO Charge												
Depth												

Does Unit Pass Post Calibration Check? Yes ☐ No ☐ *

- Note: If the unit does not pass post calibration check then data can not be entered into the data base without approval of QA/QC Office and/or Project Manager. Also, call Lab and put hold on chemistry parameters with long holding times.

Field Recorder - Signature and Date

Jessie Anderson 2015/12/15
Field Reviewer - Signature and Date

Copied - Initial & Date

Entered - Initial & Date

ATTACHMENT C

Groundwater Laboratory Analytical Reports

December 22, 2015

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

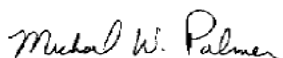
RE: Project: Sawgrass Lake GW
Pace Project No.: 35221165

Dear Matt Starr:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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

cc: Bradley Bayne, Atkins Golbal



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

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
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 York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
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
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.: 35221165

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35221165001	SLMW-4R-1215	Water	12/15/15 08:36	12/15/15 13:55
35221165002	SLMW-3R-1215	Water	12/15/15 09:37	12/15/15 13:55
35221165003	SLMW-1R-1215	Water	12/15/15 10:50	12/15/15 13:55
35221165004	Dup C-1215	Water	12/15/15 10:50	12/15/15 13:55
35221165005	SLMW-2R-1215	Water	12/15/15 12:07	12/15/15 13:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35221165001	SLMW-4R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	KCT	1	PASI-O
35221165002	SLMW-3R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	KCT	1	PASI-O
35221165003	SLMW-1R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35221165004	Dup C-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35221165005	SLMW-2R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-4R-1215 Lab ID: 35221165001 Collected: 12/15/15 08:36 Received: 12/15/15 13:55 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	12/18/15 09:06	12/18/15 19:33	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:33	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	12/18/15 09:06	12/18/15 19:06	7440-38-2	
Calcium	113000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:56	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:06	7439-92-1	
Magnesium	12300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:56	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B)	334000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:56		
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	599	mg/L	5.0	5.0	1		12/18/15 16:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-3R-1215 Lab ID: 35221165002 Collected: 12/15/15 09:37 Received: 12/15/15 13:55 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	12/18/15 09:06	12/18/15 19:35	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:35	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	12/18/15 09:06	12/18/15 19:08	7440-38-2	
Calcium	232000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:58	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:08	7439-92-1	
Magnesium	17000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:58	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B)	649000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:58		
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	1040	mg/L	10.0	10.0	1		12/18/15 16:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-1R-1215 Lab ID: 35221165003 Collected: 12/15/15 10:50 Received: 12/15/15 13:55 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	12/18/15 09:06	12/18/15 19:37	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:37	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	12/18/15 09:06	12/18/15 19:18	7440-38-2	
Calcium	387000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:12	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:18	7439-92-1	
Magnesium	133000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:12	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B)	1510000	ug/L	33000	16000	10	12/18/15 09:06	12/18/15 16:12		
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	2290	mg/L	10.0	10.0	1		12/20/15 16:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: Dup C-1215		Lab ID: 35221165004		Collected: 12/15/15 10:50		Received: 12/15/15 13:55		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	12/18/15 09:06	12/18/15 19:45	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:45	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	12/18/15 09:06	12/18/15 19:20	7440-38-2	
Calcium	378000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:14	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:20	7439-92-1	
Magnesium	135000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:14	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B)	1500000	ug/L	33000	16000	10	12/18/15 09:06	12/18/15 16:14		
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	2160	mg/L	10.0	10.0	1		12/20/15 16:09		

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ANALYTICAL RESULTS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-2R-1215 Lab ID: 35221165005 Collected: 12/15/15 12:07 Received: 12/15/15 13:55 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	12/18/15 09:06	12/18/15 19:47	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:47	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	12/18/15 09:06	12/18/15 19:22	7440-38-2	
Calcium	201000	ug/L	500	250	1	12/18/15 09:06	12/18/15 16:04	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:22	7439-92-1	
Magnesium	36600	ug/L	2500	1250	5	12/18/15 09:06	12/18/15 16:16	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B)	653000	ug/L	16500	8000	5	12/18/15 09:06	12/18/15 16:16		
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	1020	mg/L	5.0	5.0	1		12/20/15 16:10		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW

Pace Project No.: 35221165

QC Batch: TAMP/8086 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered
Associated Lab Samples: 35221165001, 35221165002, 35221165003, 35221165004, 35221165005

METHOD BLANK: 1425739 Matrix: Water
Associated Lab Samples: 35221165001, 35221165002, 35221165003, 35221165004, 35221165005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	5.3 U	10.0	5.3	12/18/15 19:24	
Lead, Dissolved	ug/L	8.5 U	15.0	8.5	12/18/15 19:24	

LABORATORY CONTROL SAMPLE: 1425740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	250	233	93	80-120	
Lead, Dissolved	ug/L	250	245	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425741 1425742

Parameter	Units	35221165001 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	234	223	94	89	75-125	5	20	
Lead, Dissolved	ug/L	8.5 U	250	250	253	248	101	99	75-125	2	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.: 35221165

QC Batch: TAMP/8085 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Tampa
Associated Lab Samples: 35221165001, 35221165002, 35221165003, 35221165004, 35221165005

METHOD BLANK: 1425735 Matrix: Water
Associated Lab Samples: 35221165001, 35221165002, 35221165003, 35221165004, 35221165005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.3 U	10.0	5.3	12/18/15 18:58	
Calcium	ug/L	250 U	500	250	12/18/15 15:48	
Lead	ug/L	8.5 U	15.0	8.5	12/18/15 18:58	
Magnesium	ug/L	250 U	500	250	12/18/15 15:48	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3300	1600	12/18/15 15:48	

LABORATORY CONTROL SAMPLE: 1425736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	214	86	80-120	
Calcium	ug/L	12500	12500	100	80-120	
Lead	ug/L	250	233	93	80-120	
Magnesium	ug/L	12500	12200	98	80-120	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	81700	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425737 1425738

Parameter	Units	35221165001 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	223	222	89	89	75-125	0	20	
Calcium	ug/L	113000	12500	12500	125000	126000	91	97	75-125	1	20	
Lead	ug/L	8.5 U	250	250	233	238	93	95	75-125	2	20	
Magnesium	ug/L	12300	12500	12500	23800	24100	92	94	75-125	1	20	
Tot Hardness asCaCO3 (SM 2340B	ug/L	334000	82700	82700	410000	413000	92	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW

Pace Project No.: 35221165

QC Batch: WET/34770

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 35221165001, 35221165002

METHOD BLANK: 1425717

Matrix: Water

Associated Lab Samples: 35221165001, 35221165002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	12/18/15 16:18	

LABORATORY CONTROL SAMPLE: 1425718

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	90-110	

SAMPLE DUPLICATE: 1426681

Parameter	Units	35220982008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	900	884	2	5	

SAMPLE DUPLICATE: 1426682

Parameter	Units	35221119001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1530	1530	0	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Sawgrass Lake GW

Pace Project No.: 35221165

QC Batch: WET/34790 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 35221165003, 35221165004, 35221165005

METHOD BLANK: 1427783 Matrix: Water

Associated Lab Samples: 35221165003, 35221165004, 35221165005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0 U	5.0	5.0	12/20/15 16:07	

LABORATORY CONTROL SAMPLE: 1427784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	304	101	90-110	

SAMPLE DUPLICATE: 1427785

Parameter	Units	35221877001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	285	308	8	5	J(D6)

SAMPLE DUPLICATE: 1427786

Parameter	Units	35221072001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2590	7	5	J(D6)

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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QUALIFIERS

Project: Sawgrass Lake GW
Pace Project No.: 35221165

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

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221165001	SLMW-4R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165002	SLMW-3R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165003	SLMW-1R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165004	Dup C-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165005	SLMW-2R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165001	SLMW-4R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165002	SLMW-3R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165003	SLMW-1R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165004	Dup C-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165005	SLMW-2R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165001	SLMW-4R-1215	SM 2540C	WET/34770		
35221165002	SLMW-3R-1215	SM 2540C	WET/34770		
35221165003	SLMW-1R-1215	SM 2540C	WET/34790		
35221165004	Dup C-1215	SM 2540C	WET/34790		
35221165005	SLMW-2R-1215	SM 2540C	WET/34790		

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DOF-CUSTODY / Analytical Request Document

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

Required Client Information:

Required Project Information:

Section C

Invoice Information:

Attention:	Matt Starr
Company Name:	Atkins
Address:	same
Page Quote:	
Page Project Manager:	mike.valder@pacelabs.com,
Page Profile #:	6964 line 6

Page : 1 Of 1

Regulatory Agency

State / Location

FL

[illegible]

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: _____

TEMP in C

Received on


ce
(Y/N)

Custody

Sealed
Cooler

(Y/N)

Samples
ntact

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	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 # 35221165

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 TPA14 Type of Ice: Wet Blue None

Cooler Temperature°C 1.3 (Visual) 0.1 (Correction Factor) 1.2 (Actual) 1.4

Date and Initials of person examining contents: JP 12/15/15

(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	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

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: _____

ATTACHMENT D

Surface Water Laboratory Analytical Reports

December 23, 2015

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

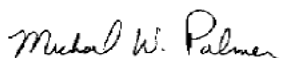
RE: Project: Sawgrass Lake SW
Pace Project No.: 35221170

Dear Matt Starr:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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

cc: Bradley Bayne, Atkins Golbal



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

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
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 York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
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
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 SW

Pace Project No.: 35221170

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35221170001	SLSW-1-0	Water	12/15/15 11:25	12/15/15 13:55
35221170002	SLSW-1-1	Water	12/15/15 11:30	12/15/15 13:55
35221170003	SLSW-1-2	Water	12/15/15 11:35	12/15/15 13:55
35221170004	SLSW-1-3	Water	12/15/15 11:38	12/15/15 13:55
35221170005	SLSW-2-0	Water	12/15/15 09:31	12/15/15 13:55
35221170006	SLSW-2-1	Water	12/15/15 09:34	12/15/15 13:55
35221170007	SLSW-2-3	Water	12/15/15 09:37	12/15/15 13:55
35221170008	SLSW-2-5	Water	12/15/15 09:39	12/15/15 13:55
35221170009	SLSW-3-0	Water	12/15/15 09:53	12/15/15 13:55
35221170010	SLSW-3-1	Water	12/15/15 09:56	12/15/15 13:55
35221170011	SLSW-3-3	Water	12/15/15 09:58	12/15/15 13:55
35221170012	SLSW-3-5	Water	12/15/15 10:00	12/15/15 13:55
35221170013	SLSW-4-0	Water	12/15/15 10:28	12/15/15 13:55
35221170014	SLSW-4-1	Water	12/15/15 10:30	12/15/15 13:55
35221170015	SLSW-4-5	Water	12/15/15 10:32	12/15/15 13:55
35221170016	SLSW-4-5-DUP	Water	12/15/15 10:32	12/15/15 13:55
35221170017	SLSW-4-9	Water	12/15/15 10:36	12/15/15 13:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35221170001	SLSW-1-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170002	SLSW-1-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170003	SLSW-1-2	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170004	SLSW-1-3	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170005	SLSW-2-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170006	SLSW-2-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170007	SLSW-2-3	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170008	SLSW-2-5	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35221170009	SLSW-3-0	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170010	SLSW-3-1	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170011	SLSW-3-3	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170012	SLSW-3-5	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170013	SLSW-4-0	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170014	SLSW-4-1	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
35221170015	SLSW-4-5	EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35221170016	SLSW-4-5-DUP	EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
35221170017	SLSW-4-9	EPA 365.4	AEM	1	PASI-O
		EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-0		Lab ID: 35221170001		Collected: 12/15/15 11:25		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 19:58	7440-38-2	
Calcium	64200	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:02	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 19:58	7439-92-1	
Magnesium	7230	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:02	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	190000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:02		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.0	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/21/15 10:40	12/22/15 12:56	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.084	mg/L	0.050	0.025	1		12/21/15 10:23		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.17	mg/L	0.10	0.050	1	12/21/15 10:40	12/22/15 12:56	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-1		Lab ID: 35221170002		Collected: 12/15/15 11:30		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:00	7440-38-2	
Calcium	66900	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:04	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:00	7439-92-1	
Magnesium	7240	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:04	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	197000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:04		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.2	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:15	7727-37-9	J(D6), J(M1)
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.072	mg/L	0.050	0.025	1		12/21/15 10:25		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.15	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:15	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-2		Lab ID: 35221170003		Collected: 12/15/15 11:35		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:02	7440-38-2	
Calcium	66100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:06	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:02	7439-92-1	
Magnesium	7240	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:06	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	195000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:06		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	1.4	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	1.3	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:19	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.083	mg/L	0.050	0.025	1		12/21/15 10:26		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.21	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:19	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-3 Lab ID: 35221170004 Collected: 12/15/15 11:38 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:04	7440-38-2	
Calcium	66300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:08	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:04	7439-92-1	
Magnesium	7170	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:08	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	195000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:08		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	1.3	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres. Analytical Method: EPA 353.2									
Nitrogen, NO2 plus NO3	0.084	mg/L	0.050	0.025	1		12/21/15 10:27		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.20	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:21	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-0		Lab ID: 35221170005		Collected: 12/15/15 09:31		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:13	7440-38-2	
Calcium	59100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:10	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:13	7439-92-1	
Magnesium	6190	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:10	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:10		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
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	12/22/15 07:50	12/22/15 14:22	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		12/21/15 10:29		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:22	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-1 Lab ID: 35221170006 Collected: 12/15/15 09:34 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:15	7440-38-2	
Calcium	59100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:12	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:15	7439-92-1	
Magnesium	6270	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:12	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:12		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.87	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:23	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		12/21/15 10:36		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.054 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:23	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-3 Lab ID: 35221170007 Collected: 12/15/15 09:37 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:17	7440-38-2	
Calcium	59200	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:20	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:17	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:20	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:20		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.92	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.92	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:25	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		12/21/15 10:37		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:25	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-5 Lab ID: 35221170008 Collected: 12/15/15 09:39 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:19	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:22	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:19	7439-92-1	
Magnesium	6340	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:22	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	172000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:22		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.91	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:26	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		12/21/15 10:39		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.058 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:26	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-0		Lab ID: 35221170009		Collected: 12/15/15 09:53		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:21	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:24	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:21	7439-92-1	
Magnesium	6060	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:24	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:24		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.87	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:30	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		12/21/15 10:40		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.050 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:30	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-1 Lab ID: 35221170010 Collected: 12/15/15 09:56 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:23	7440-38-2	
Calcium	58000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:26	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:23	7439-92-1	
Magnesium	6100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:26	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:26		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.89	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.89	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:32	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		12/21/15 10:44		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.053 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:32	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-3 Lab ID: 35221170011 Collected: 12/15/15 09:58 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:25	7440-38-2	
Calcium	58500	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:28	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:25	7439-92-1	
Magnesium	6020	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:28	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:28		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.95	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.95	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:33	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		12/21/15 10:50		
365.4 Phosphorus, Total Analytical Method: EPA 365.4 Preparation Method: EPA 365.4									
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:33	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-5		Lab ID: 35221170012		Collected: 12/15/15 10:00		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:27	7440-38-2	
Calcium	58800	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:30	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:27	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:30	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	172000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:30		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.88	mg/L	0.50	0.086	1		12/23/15 10:05		
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	12/22/15 07:50	12/22/15 14:34	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		12/21/15 10:52		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:34	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-0		Lab ID: 35221170013		Collected: 12/15/15 10:28		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:29	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:32	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:29	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:32	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:32		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.91	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:36	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		12/21/15 10:53		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.053 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:36	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-1		Lab ID: 35221170014		Collected: 12/15/15 10:30		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:31	7440-38-2	
Calcium	57900	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:34	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:31	7439-92-1	
Magnesium	6100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:34	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:34		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.93	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:37	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		12/21/15 10:54		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.058 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:37	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-5		Lab ID: 35221170015		Collected: 12/15/15 10:32		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:40	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:36	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:40	7439-92-1	
Magnesium	6080	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:36	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:36		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.94	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.94	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:38	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		12/21/15 10:55		
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	12/22/15 07:50	12/22/15 14:38	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-5-DUP Lab ID: 35221170016 Collected: 12/15/15 10:32 Received: 12/15/15 13:55 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:42	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:38	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:42	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:38	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:38		
Total Nitrogen Calculation Analytical Method: TKN+NOx Calculation									
Total Nitrogen	0.93	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2									
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:40	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		12/21/15 10:57		
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	12/22/15 07:50	12/22/15 14:40	7723-14-0	

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ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-9		Lab ID: 35221170017		Collected: 12/15/15 10:36		Received: 12/15/15 13:55		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:44	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:46	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:44	7439-92-1	
Magnesium	5890	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:46	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:46		
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation							
Total Nitrogen	0.96	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.96	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:41	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		12/21/15 10:58		
365.4 Phosphorus, Total		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.073 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:41	7723-14-0	

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35221170

QC Batch:	TAMP/8087	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 MET Tampa
Associated Lab Samples:	35221170001, 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

METHOD BLANK:	1425743	Matrix:	Water
Associated Lab Samples:	35221170001, 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.0 U	10.0	5.0	12/18/15 19:50	
Calcium	ug/L	250 U	500	250	12/18/15 14:55	
Lead	ug/L	5.0 U	10.0	5.0	12/18/15 19:50	
Magnesium	ug/L	250 U	500	250	12/18/15 14:55	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3300	1600	12/18/15 14:55	

LABORATORY CONTROL SAMPLE: 1425744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	228	91	85-115	
Calcium	ug/L	12500	12900	103	85-115	
Lead	ug/L	250	255	102	85-115	
Magnesium	ug/L	12500	12900	103	85-115	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	85200	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425745 1425746

Parameter	Units	35221170001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.0 U	250	250	231	227	92	91	70-130	2	20	
Calcium	ug/L	64200	12500	12500	77900	75900	110	94	70-130	3	20	
Lead	ug/L	5.0 U	250	250	239	248	96	99	70-130	4	20	
Magnesium	ug/L	7230	12500	12500	19200	19000	96	94	70-130	1	20	
Tot Hardness asCaCO3 (SM 2340B	ug/L	190000	82700	82700	274000	268000	101	94	70-130	2	20	

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW

Pace Project No.: 35221170

QC Batch: WETA/53212

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Associated Lab Samples: 35221170001

METHOD BLANK: 1428032

Matrix: Water

Associated Lab Samples: 35221170001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	12/22/15 12:21	

LABORATORY CONTROL SAMPLE: 1428033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	18.0	90	90-110	

MATRIX SPIKE SAMPLE: 1428035

Parameter	Units	35221017019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.0	20	19.8	84	90-110	J(M1)

SAMPLE DUPLICATE: 1428034

Parameter	Units	35221017019 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	3.0	2.5	15	20	

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW

Pace Project No.: 35221170

QC Batch:	WETA/53222	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
Associated Lab Samples:	35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

METHOD BLANK:	1428462	Matrix:	Water
Associated Lab Samples:	35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	12/22/15 14:10	

LABORATORY CONTROL SAMPLE:	1428463					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	18.4	92	90-110	

MATRIX SPIKE SAMPLE:	1428465						
		35221170002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.2	20	17.2	80	90-110	J(M1)

SAMPLE DUPLICATE:	1428464					
Parameter	Units	35221170002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	1.2	0.95	22	20	J(D6)

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW
Pace Project No.: 35221170

QC Batch: WETA/53202 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 35221170001, 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009

METHOD BLANK: 1427880 Matrix: Water
Associated Lab Samples: 35221170001, 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/21/15 09:57	

LABORATORY CONTROL SAMPLE: 1427881

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: 1427883

Parameter	Units	35221121002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	2.0	100	80-120	

MATRIX SPIKE SAMPLE: 1427885

Parameter	Units	35221167001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	4.8	4	9.1	106	80-120	

SAMPLE DUPLICATE: 1427882

Parameter	Units	35221121002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE: 1427884

Parameter	Units	35221167001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	4.8	4.9	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW

Pace Project No.: 35221170

QC Batch:	WETA/53203	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
Associated Lab Samples:	35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

METHOD BLANK:	1427886	Matrix:	Water
Associated Lab Samples:	35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.025	12/21/15 10:41	

LABORATORY CONTROL SAMPLE:	1427887					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE:	1427889						
		35221170010	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	2.1	103	80-120	

MATRIX SPIKE SAMPLE:	1427891						
		35221198003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, NO2 plus NO3	ma/L	28.1	20	47.3	96	80-120	

SAMPLE DUPLICATE:	1427888					
Parameter	Units	35221170010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 U		20	

SAMPLE DUPLICATE:	1427890					
Parameter	Units	35221198003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	28.1	28.0	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW

Pace Project No.: 35221170

QC Batch: WETA/53213

Analysis Method: EPA 365.4

QC Batch Method: EPA 365.4

Analysis Description: 365.4 Phosphorus

Associated Lab Samples: 35221170001

METHOD BLANK: 1428036

Matrix: Water

Associated Lab Samples: 35221170001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	12/22/15 12:58	

LABORATORY CONTROL SAMPLE: 1428037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.8	95	90-110	

MATRIX SPIKE SAMPLE: 1428039

Parameter	Units	35221017019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.70	4	4.3	89	80-120	

SAMPLE DUPLICATE: 1428038

Parameter	Units	35221017019 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.70	0.68	4	20	

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QUALITY CONTROL DATA

Project: Sawgrass Lake SW

Pace Project No.: 35221170

QC Batch: WETA/53223 Analysis Method: EPA 365.4
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus
Associated Lab Samples: 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017

METHOD BLANK: 1428469

Matrix: Water

Associated Lab Samples: 35221170002, 35221170003, 35221170004, 35221170005, 35221170006, 35221170007, 35221170008, 35221170009, 35221170010, 35221170011, 35221170012, 35221170013, 35221170014, 35221170015, 35221170016, 35221170017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050 U	0.10	0.050	12/22/15 14:51	

LABORATORY CONTROL SAMPLE: 1428473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	3.8	96	90-110	

MATRIX SPIKE SAMPLE: 1428475

Parameter	Units	35221170002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.15	4	3.6	86	80-120	

SAMPLE DUPLICATE: 1428474

Parameter	Units	35221170002 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.15	0.13	11	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Sawgrass Lake SW
Pace Project No.: 35221170

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.
J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221170001	SLSW-1-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170002	SLSW-1-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170003	SLSW-1-2	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170004	SLSW-1-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170005	SLSW-2-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170006	SLSW-2-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170007	SLSW-2-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170008	SLSW-2-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170009	SLSW-3-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170010	SLSW-3-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170011	SLSW-3-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170012	SLSW-3-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170013	SLSW-4-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170014	SLSW-4-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170015	SLSW-4-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170016	SLSW-4-5-DUP	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170017	SLSW-4-9	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170001	SLSW-1-0	TKN+NOx Calculation	WET/34858		
35221170002	SLSW-1-1	TKN+NOx Calculation	WET/34858		
35221170003	SLSW-1-2	TKN+NOx Calculation	WET/34858		
35221170004	SLSW-1-3	TKN+NOx Calculation	WET/34858		
35221170005	SLSW-2-0	TKN+NOx Calculation	WET/34858		
35221170006	SLSW-2-1	TKN+NOx Calculation	WET/34858		
35221170007	SLSW-2-3	TKN+NOx Calculation	WET/34858		
35221170008	SLSW-2-5	TKN+NOx Calculation	WET/34858		
35221170009	SLSW-3-0	TKN+NOx Calculation	WET/34858		
35221170010	SLSW-3-1	TKN+NOx Calculation	WET/34858		
35221170011	SLSW-3-3	TKN+NOx Calculation	WET/34858		
35221170012	SLSW-3-5	TKN+NOx Calculation	WET/34858		
35221170013	SLSW-4-0	TKN+NOx Calculation	WET/34858		
35221170014	SLSW-4-1	TKN+NOx Calculation	WET/34858		
35221170015	SLSW-4-5	TKN+NOx Calculation	WET/34858		
35221170016	SLSW-4-5-DUP	TKN+NOx Calculation	WET/34858		
35221170017	SLSW-4-9	TKN+NOx Calculation	WET/34858		
35221170001	SLSW-1-0	EPA 351.2	WETA/53212	EPA 351.2	WETA/53238
35221170002	SLSW-1-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170003	SLSW-1-2	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170004	SLSW-1-3	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170005	SLSW-2-0	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170006	SLSW-2-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170007	SLSW-2-3	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170008	SLSW-2-5	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170009	SLSW-3-0	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170010	SLSW-3-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170011	SLSW-3-3	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170012	SLSW-3-5	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170013	SLSW-4-0	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221170014	SLSW-4-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170015	SLSW-4-5	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170016	SLSW-4-5-DUP	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170017	SLSW-4-9	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170001	SLSW-1-0	EPA 353.2	WETA/53202		
35221170002	SLSW-1-1	EPA 353.2	WETA/53202		
35221170003	SLSW-1-2	EPA 353.2	WETA/53202		
35221170004	SLSW-1-3	EPA 353.2	WETA/53202		
35221170005	SLSW-2-0	EPA 353.2	WETA/53202		
35221170006	SLSW-2-1	EPA 353.2	WETA/53202		
35221170007	SLSW-2-3	EPA 353.2	WETA/53202		
35221170008	SLSW-2-5	EPA 353.2	WETA/53202		
35221170009	SLSW-3-0	EPA 353.2	WETA/53202		
35221170010	SLSW-3-1	EPA 353.2	WETA/53203		
35221170011	SLSW-3-3	EPA 353.2	WETA/53203		
35221170012	SLSW-3-5	EPA 353.2	WETA/53203		
35221170013	SLSW-4-0	EPA 353.2	WETA/53203		
35221170014	SLSW-4-1	EPA 353.2	WETA/53203		
35221170015	SLSW-4-5	EPA 353.2	WETA/53203		
35221170016	SLSW-4-5-DUP	EPA 353.2	WETA/53203		
35221170017	SLSW-4-9	EPA 353.2	WETA/53203		
35221170001	SLSW-1-0	EPA 365.4	WETA/53213	EPA 365.4	WETA/53239
35221170002	SLSW-1-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170003	SLSW-1-2	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170004	SLSW-1-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170005	SLSW-2-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170006	SLSW-2-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170007	SLSW-2-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170008	SLSW-2-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170009	SLSW-3-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170010	SLSW-3-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170011	SLSW-3-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170012	SLSW-3-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170013	SLSW-4-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170014	SLSW-4-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170015	SLSW-4-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170016	SLSW-4-5-DUP	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170017	SLSW-4-9	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249

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Pace Analytical
1995, 2000, 2001, 2002



-CUSTODY / Analytical Request Document

ustody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: ATKINS Global

Address: 4030 West Boy Scout Blvd., Su

Tampa, FL 33607

Email: matthew.starr@atkinsglobal.com

Phone: 727-409-0733

Requested Due Date:

Required Project Information:

Report To: Matt Starr

Copy To:	
----------	--

Purchase Order #:

Project Name:	Sawgrass Lake SW
---------------	------------------

Project #:

Section C

Invoice Information:

Attention:

Company Name:	
---------------	--

Address:

Pace Quote:

Pace Project Manager:	mike.valder@pacelabs.com
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Pace Profile #:	6964 line 5
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Page : 1 Of 2


Regulatory Agency

State / Location

FL

[illegible]

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:												

	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 # 35221170

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 TPA14 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temperature °C 1.3 (Visual) -0.1 (Correction Factor) 1.2 (Actual) 1.4

Date and Initials of person examining contents: WP 12/15/15

(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	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

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: _____

Size & Qty of Bottles Received

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

Extra Sample in Shed: Yes No