



March 12, 2021

Mr. Anthony Rodriguez:
Zoning Manager
Lee County Community Development
1500 Monroe Street
Fort Myers, Florida 33901

**RE: Fourth Annual Monitoring Report
RH Golf LLC, River Hall, Lee County, Florida
Zoning Violation Case # VIO2017-18588**

Dear Mr. Rodriguez:

Water Science Associates is pleased to provide the fourth annual report of water quality monitoring conducted at the River Hall Golf Course, located in Lee County, Florida. The purpose of this monitoring report is to evaluate various influences on the water quality conditions in the River Hall Golf Course lake system and monitor key water quality indicators. The report was prepared in accordance with the requirements of Zoning Resolution Z-15-003 dated June 3, 2015. Condition 6.k. of the zoning resolution requires submittal of an annual monitoring report of surface water quality to assess the potential for herbicide, pesticide, or fertilizer contamination within the golf course. The Water Quality Monitoring Plan was approved by Lee County Department of Natural Resources (LCDNR) on February 2, 2018. The initial annual monitoring report was submitted on April 3, 2018, the second annual monitoring report was submitted on April 9, 2019, and the third annual monitoring report was submitted on April 1, 2020.

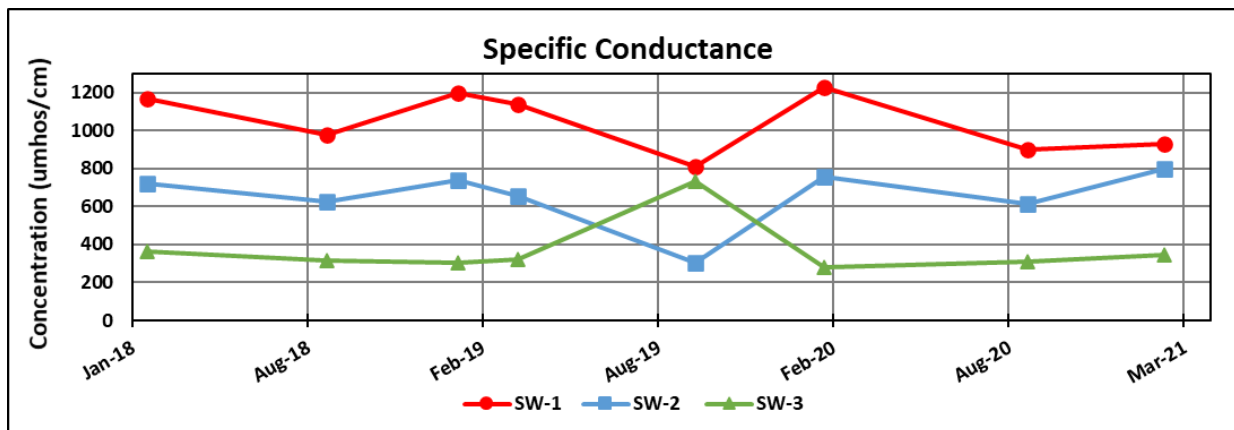
Since the third annual monitoring report, two additional sampling events have been conducted at the sites designated in the approved plan and the interim results of the two events have been submitted via e-mail reports to Lee County on October 20, 2020 and March 11, 2021. During both of the two most recent sampling events, samples were collected at sites designated as SW-1, SW-2, and SW-3 located respectively at the three lakes Lake 3-3, 4-1B, and Lake 4-2C. Refer to Figure 1 for a map showing the sample site locations. The Water Quality Monitoring Plan requires semi-annual sampling events and the preparation of an Annual Monitoring Report for submittal to Lee County. LCDNR requested that results of the laboratory analyses of water samples be provided in Electronic Data Deliverable (EDD) format for compatibility with the Florida Department of Environmental Protection (FDEP) automated data processing tool (ADaPT). The formatted data has been submitted via e-mail to LCDNR after analysis of each of the completed sampling events and are therefore not included in this report. Refer to Table 1 for a summary of the monitoring results and refer to Exhibit A for the laboratory water quality analysis reports.

The two most recent semi-annual sampling results were compared to applicable target levels for Class III surface water outlined in Chapter 62-302, F.A.C. Most parameters listed in Table 1 have standards based on background, trends, and inter-relationships with other contaminants but do not have numeric target levels. Total nitrogen values ranged from 0.45 mg/L to 1.16 mg/L and total phosphorous values ranged from 0.0082 mg/L to 0.041 mg/L in samples from all three sampling points. These results indicate that nutrient levels in the three sampled lakes are very low in comparison to typical stormwater runoff for residential land use. Development at River Hall remains at less than 50% buildout and therefore much of the land surface within the individual basins is relatively undisturbed and has a low potential to contribute nutrients to runoff.

Chlorophyll a and pheophytin (a breakdown product of chlorophyll) exhibited values ranging from a high of 20 mg/m³ to less than the detection limit of 1 mg/m³. These compounds have no regulatory limits or numeric targets but are often used to evaluate levels of algal concentrations in aquatic systems. It should be noted that the highest sample result of 20 mg/m³ was from a sample collected from a shoreline area of SW-2 adjacent to the downstream outfall of the lake.

Due to littoral zone vegetation surrounding the lake, this sample result may have been influenced by aquatic vegetation creating a somewhat flow restricted environment.

Results of the water quality analysis reports indicate that the parameter of specific conductance is consistently within the numeric target level of less than 1250 micromhos per centimeter (umhos/cm) for Class III surface water. The specific conductance values have demonstrated a spatial trend with SW-1 having the highest levels of the three sites as shown in Figure 1 below. The specific conductance in this most downgradient lake is influenced by use of Lower Hawthorn Aquifer and Sandstone Aquifer Wells to supply a component of irrigation on the golf course. The higher specific conductance values typically occur during the dry season when the wells are used for irrigation.



Plot of Specific Conductance Values for SW-1, SW-2 and SW-3

The parameter of dissolved oxygen was slightly below the target level of 5 mg/L in all three lakes on four of six samples collected. Dissolved oxygen concentrations vary with respect to environmental conditions of the water body, which include temperature, salinity, and vegetative growth. The results show that there were no detections of the synthetic organic chemicals Glyphosate or Fipronil. Neither Fipronil nor glyphosate have specific target levels listed in Chapter 62-302.

This annual report demonstrates that the water in the lake system has relatively low nutrient and aquatic algae levels, had no quantifiable levels of the most common pesticide or herbicide used on the golf course, and that the influence of groundwater from recharge wells is reflected by trends in specific conductance. The data evaluation does not indicate exceedances of nutrient or other water quality parameters or temporal trends showing ongoing degradation of water quality. Overall, the lakes have significantly lower nutrient levels than is typical for residential stormwater systems.

Should you have any questions or would like additional information, please do not hesitate to contact Andrew McThenia or Jared Wilkey via phone or email.

Sincerely,

Andrew McThenia, P.G.
Senior Hydrogeologist
Water Science Associates, Inc.
Office: 239.529.4396
Mobile: 239.246.1972
Email: andy@wsaconsult.com

Jared Wilkey
Staff Scientist
Water Science Associates, Inc.
Office: 239.271.2472
Mobile: 239.784.8513
Email: jared@wsaconsult.com

FIGURE 1

Map Showing Sampling Locations



Water Science Associates

PROJECT NAME: RIVER HALL GOLF COURSE

COA 30437

PROJECT NUMBER: 11317-01

APRIL 2018

FIGURE 1. MAP SHOWING SAMPLING LOCATIONS.

TABLE 1

Summary of Surface Water Quality Results

Table 1. Summary of Water Quality Results

Parameter	Units	INITIAL ANNUAL REPORT				SECOND ANNUAL REPORT											
		2/15/2018				8/27/2018				1/14/2019				3/19/2019			
		Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL
		Results				Results				Results				Results			
Nitrite	mg/L as N	ND*	ND	0.052	0.01	ND	ND	ND	0.01	ND	ND	ND	0.01				0.01
Nitrate	mg/L as N	ND	ND	ND	0.04	ND	ND	ND	0.04	ND	ND	ND	0.01				0.01
Total Nitrogen	mg/L as N	0.66	0.7	0.56	0.1	ND	ND	ND	0.1	0.79	0.98	0.54	0.1				0.1
Total Phosphorus	mg/L as P	ND	ND	ND	0.05	ND	ND	ND	0.05	ND	ND	ND	0.05	0.017	0.027	0.012	0.004
Chlorophyll a	mg/m ³	4.27	4.45	37.4	1	13.4	12	6.01	1	10	8.01	ND	1				1
Pheophytin	mg/m ³	4.7	ND	11.2	1	3.94	2.94	1.47	1	5.87	3.83	1.87	1				1
Temperature (field)	°C	26.5	27.7	28	0.1	33	33.4	32.7	0.1	21.7	24.7	22.5	0.1	28.4	28.1	26.9	0.1
pH (field)	S.U.	7.84	7.99	7.99	0.01	7.77	7.64	7.84	0.01	7.91	8.03	8.06	0.01	7.91	7.95	7.98	0.01
Conductivity	µmhos/cm	1166	720	364.9	1	977	627	318.5	1	1196	740	303.8	1	1138	654	324.2	1
Dissolved Oxygen (field)	mg/L	4.86	4.93	4.55	0.1	4.67	3.95	5.31	0.1	5.95	5.46	7.08	0.1	4.82	5.28	6.11	0.1
Fipronil	ug/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5				0.5
Glyphosate	mg/L	.0042 U**	.0042 U	.0042 U	0.0042	.0042 U	.0042 U	.0042 U	0.0042	.0042 U	.0042 U	.0042 U	0.0042				0.0042

Parameter	Units	THIRD ANNUAL REPORT								FOURTH ANNUAL REPORT							
		9/26/2019				2/11/2020				9/16/2020				2/10/2021			
		Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL	Site SW-1	Site SW-2	Site SW-3	MDL
		Results				Results				Results				Results			
Nitrite	mg/L as N	ND	ND	ND	0.03	ND	ND	ND	0.01	ND	ND	ND	0.01	ND	ND	ND	0.01
Nitrate	mg/L as N	ND	ND	0.068	0.01	0.1	ND	ND	0.01	ND	ND	ND	0.01	ND	ND	0.229	0.01
Total Nitrogen	mg/L as N	1.04	0.51	0.95	0.1	0.09	0.033U	0.033U	0.05	0.69	0.73	0.45I	0.086	1.16	0.96	1.01	0.03
Total Phosphorus	mg/L as P	ND	ND	ND	0.05	0.021	0.026	0.01	0.004	0.03	0.041	0.023	0.0028	0.0095	0.022	0.0082	0.0028
Chlorophyll a	mg/m ³	11.4	4.01	10	1	14	7.12	ND	1	10.7	20	9.35	1	ND	ND	ND	1
Pheophytin	mg/m ³	2.67	2.07	4.47	1	1.87	ND	ND	1	2.4	4.27	3.27	1	2.54	2.78	1.26	1
Temperature (field)	°C	27.7	29.1	29.3	0.1	24.1	26.1	25.2	0.1	31.7	32	30.7	0.1	22.7	23.2	23.3	0.1
pH (field)	S.U.	7.83	7.7	7.72	0.01	7.51	8.05	8.05	0.01	7.44	7.57	6.99	0.01	8.03	8.21	7.93	0.01
Conductivity	µmhos/cm	810	302.7	731	1	1229	759	277.3	1	902	614	307.2	1	927	799	348.2	1
Dissolved Oxygen (field)	mg/L	5.16	4.82	4.11	0.1	4.25	4.03	4.01	0.1	3.57	4.71	2.76	0.1	5.66	4.13	5.41	0.1
Fipronil	ug/L	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	0.5
Glyphosate	mg/L	0.0042U	0.0042U	0.0051I****	0.0042	0.0042U	0.0042U	0.0042U	0.0042	0.0042U	0.0042U	0.0042U	0.0042	0.0042U	0.0042U	0.0042U	0.0042

ND* = Not Detected

U** = Compound was analyzed for but not detected.

I*** = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

EXHIBIT A

Laboratory Reports of Sampling: 09/16/20 and 02/10/21



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

October 09, 2020

Andy McThenia
Water Science Associates
13620 Metropolis Avenue, Suite 110
Fort Myers, FL 33912
TEL:
FAX:

RE: River Hall Golf Course

Order No.: 2009634

Dear Andy McThenia:

Sanders Laboratories, Inc received 3 sample(s) on 9/16/2020 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of \$50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
Nokomis Certificate # E84380 Fort Myers Certificate # E85457

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director



Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net

Definition Only

WO#: 2009634
Date: 10/9/2020

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.



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Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2009634

Date Reported: 10/9/2020

CLIENT: Water Science Associates

Lab Order: 2009634

Project: River Hall Golf Course

Lab ID: 2009634-001

Collection Date: 9/16/2020 12:30:00 PM

Client Sample ID: SW-1

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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NITROGEN, NITRATE + NITRITE

E353.2

Analyst: PS

Nitrogen, Nitrate	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM

NITROGEN, NITRITE

A4500-NO2-B

Analyst: KH

Nitrogen, Nitrite	ND	0.0100		mg/L	1	9/16/2020 4:12:50 PM
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CHLOROPHYLL A

A10200H

Analyst: EH

Chlorophyll a	10.7	1.00		mg/m ³	1	9/17/2020 3:00:00 PM
Pheophytin	2.40	1.00		mg/m ³	1	9/17/2020 3:00:00 PM

FIELD PARAMETERS

FLD

Analyst:

Conductivity, EPA 120.1	902	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	3.57	0.10		mg/L		
pH, EPA 150.1	7.44	0.01		S.U.		
Salinity	0.44	0.01		ppt		
Temperature, EPA 170.1	31.7	0.1		deg C		
Turbidity, EPA 180.1	4.93	0.01		NTU		

Qualifiers:

H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode



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Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2009634

Date Reported: 10/9/2020

CLIENT: Water Science Associates

Lab Order: 2009634

Project: River Hall Golf Course

Lab ID: 2009634-002

Collection Date: 9/16/2020 1:30:00 PM

Client Sample ID: SW-3

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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NITROGEN, NITRATE + NITRITE

E353.2

Analyst: PS

Nitrogen, Nitrate	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM

NITROGEN, NITRITE

A4500-NO2-B

Analyst: KH

Nitrogen, Nitrite	ND	0.0100		mg/L	1	9/16/2020 4:15:00 PM
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CHLOROPHYLL A

A10200H

Analyst: EH

Chlorophyll a	9.35	1.00		mg/m ³	1	9/17/2020 3:00:00 PM
Pheophytin	3.27	1.00		mg/m ³	1	9/17/2020 3:00:00 PM

FIELD PARAMETERS

FLD

Analyst:

Conductivity, EPA 120.1	307.2	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	2.76	0.10		mg/L		
pH, EPA 150.1	6.99	0.01		S.U.		
Salinity	0.14	0.01		ppt		
Temperature, EPA 170.1	30.7	0.1		deg C		
Turbidity, EPA 180.1	6.73	0.01		NTU		

Qualifiers:

H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode



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Fort Myers, FL 33913
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Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2009634

Date Reported: 10/9/2020

CLIENT: Water Science Associates

Lab Order: 2009634

Project: River Hall Golf Course

Lab ID: 2009634-003

Collection Date: 9/16/2020 1:00:00 PM

Client Sample ID: SW-2

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
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NITROGEN, NITRATE + NITRITE

E353.2

Analyst: PS

Nitrogen, Nitrate	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	9/17/2020 2:26:00 PM

NITROGEN, NITRITE

A4500-NO2-B

Analyst: KH

Nitrogen, Nitrite	ND	0.0100		mg/L	1	9/16/2020 4:15:00 PM
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CHLOROPHYLL A

A10200H

Analyst: EH

Chlorophyll a	20.0	1.00		mg/m ³	1	9/17/2020 3:00:00 PM
Pheophytin	4.27	1.00		mg/m ³	1	9/17/2020 3:00:00 PM

FIELD PARAMETERS

FLD

Analyst:

Conductivity, EPA 120.1	614	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.71	0.10		mg/L		
pH, EPA 150.1	7.57	0.01		S.U.		
Salinity	0.29	0.01		ppt		
Temperature, EPA 170.1	32.0	0.1		deg C		
Turbidity, EPA 180.1	5.44	0.01		NTU		

Qualifiers:

H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

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2009	634

*Ft. Myers Lab02
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[illegible]

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2009	634

Fl. Myers Lab02
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[illegible]

Relinquished By: 	Date: <u>7/6/20</u>	Time: <u>2:00</u>	Received By: 	Date: <u>9/16/20</u>	Time: <u>5:00</u>	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						FOR LAB USE ONLY Temp of samples <u>4.8</u> °C Attempt to Cool? <u>Y</u>
Note: RUSH requests will incur surcharges!						Comments: _____

PAGE: 3	OF: 3
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2009 634

Fl. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUBMITTING COMPANY Water Science Associates						REPORT TO: Andy McThenia							BILL TO:			P.O.#												
PROJECT NAME: River Hall Golf Course			PROJECT V. WSA - River Hall Golf Co			QUOTE #			COMPANY: Water Science Associates								COMPANY: Water Science Associates											
SPECIAL INSTRUCTIONS / COMMENTS:												ADDRESS: 13620 Metropolis Avenue, Suite 110								ADDRESS: 13620 Metropolis Avenue, Suite 110								
												CITY, STATE, ZIP: Fort Myers, FL. 33912								CITY, STATE, ZIP: Fort Myers, FL. ZIP#33912								
Kit #												PHONE								EMAIL (OR FAX IF NO EMAIL AVAILABLE)								
SAMPLER'S PRINTED NAME: <i>[Signature]</i>						SAMPLER'S SIGNATURE: <i>[Signature]</i>						ANALYTICAL PARAMETERS									COMMENTS Send Fiprinol to Europhirs Lab							
ITEM #	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	PH	Metals	Residue Lot #	NUMBER OF CONTAINERS CARBON OR COMPOSITE C*	CHLOROA	NO ₃ -PM	NOX	SA	TN	TP															
																						Methanol Preserved Weights. HOT Sample Notation. Additional Sample Description etc.						

Testcode to method definitions: ALK=A2320,APC=BAMCH23,APC PETRI=AOAC 990.12,APC/G=CCMEF 6.33/AOAC 966.23,APC/ML=CCFRA 2.1,APC/SWAB=AOAC 986.33,BOD=A5210B,BOD FM=A5210B,Ca Hard=EPA 215.2,CBOD=A5210B,CBOD FM=A5210B,CHLOROA=A10200H,CL- B DW=A4500-Cl-B,CL- E NP=A4500-Cl-E,CL- SOLID=FM_552,CL2=E330.5,CL2 FM=E330.5,COLI PETRI=AOAC 991.14,COLOR=A4210B,Color FM=A2120B,COND=A2510B,COND FM=A2510B,EB=AOAC 2003.01,EB C=CCMEF 8.631,EC 0157=AOAC Cert #001101,EC J=AOAC 992.3,EC01572=AOAC 996.09,ECOLI=EC + MUG,Enterococcus=E1600,ENTEROLERT=Enterolert,F=A4500-F-C,FC=A9222D,FC FM=A9222D,FC MPN=A9221E,FC MPN FM=A9221E,FC MUG=A9223B,FC MUG FM=A9223B,FC STREP=A9230C,FCMPN=A9221E,HARD=A2340C,HPC=A9215B,LEG A=Legiolert,LIST PCR=AOAC #090701,LISTERIA BR=R103046,LMONO PCR=010802,MOLD=FDA/BAM Ch. 18,MOLD G RES=ASTM D3273,MOLD ID=McCrone,NH3=E350.1,NH3 Solid=E350.1,NH4=E350.1,NO2=E353.2,NO2 FM=A4500-NO2-B,NO3 SOLID=E353.2,NOX=E353.2,NOX Solid=E353.2,ODOR=A2150B,Odor FM=A2150B,OPHOS=A4500-P-E,Org N=E351.2,Org N Solid=E351.2,PH=A4500-H+B,PH F=AOAC 981.12,pH FM=A4500-H+B,pH Sludge=E9040C,PH SOLID=E9045D,SALM PCR=010803,SiO2=A4500-SiO2 C,S04=ASTM-D516-90,STAPH=AOAC 2003.07,Strep=A9230C,SA-Subcontractor PACE BCS ALS FRC Microbac Eurofins,TC MF=A9222B,TC MF FM=A9222B,TC MUG=A9223B,TC MUG FM=A9223B,TDS=A2540C,TDS FM=A2540C,TKN=E351.2,TKN Solid=E351.2,TN=E351.2,TN Solid=E351.2,TP=E365.4,TP Diss=E365.4,TP Solid=E365.4,TS=A2540G,TSS=A2540D,TSS FM=A2540D,TURB=E180.1,TVSS=E160.4,U n NH3=E350.1,Y M=FDA/BAM 8th Ed.

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE FOR LAB USE ONLY Temp of samples <u>4.8</u> °C Attempt to Cool ? <u>4</u> Comments: _____
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						
Note: RUSH requests will incur surcharges!						



Date:

Field Tech: Jason Govanus

Location:

9/16/20

WSA Riverfall

Site	Time	Flow* Ft/sec or tidal change	Total Depth ft	Sample Depth (ft)	Water Temp EPA 170.1 (C)	DO EPA 360.1 (mg/L)	DO (%)	Cond EPA 120.1 (umhos /cm)	Salinity SM 250B (ppt)	pH EPA 150.1 (std units)	Turbidity EPA 180.1 (NTU)	Weather		Air Temp (C)	Secchi (ft)
												Cloud Cover	Wind		
SW-1	12:30	Discharging	2 1/2 ft	1 ft	31.7	3.57	48.8	902	0.44	7.44	4.93	10% Cloud	SSE 6 mph	31.66	
SW-2	13:00	Discharging	3 1/2 ft	1 ft	32.0	4.71	64.2	614	0.29	7.57	5.44	1	SSE 7 mph	30.55	
SW-3	13:30	N/A	3 ft	1 ft	30.7	2.76	37.0	307.2	0.14	6.99	6.73	1	SSE 7 mph	31.11	

Tests/Bottles/Preservatives:

	Lot #	Preservative
250P		
500 P		
1LP		
2LP		
Other		

Equipment Used: (circle)

Dip Stick	1	Secchi	4999
Multi	Turb	Depth	Peri Pump Sub Pump
13E103015	20012585	6602	5105 OO2917

Comments:

Date Revised: 5/19/2020 Form ID: FF-03 Approved by: KS

Custody Seal



September 22, 2020

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2009634
Pace Project No.: 35578501

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2009634

Pace Project No.: 35578501

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

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

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2009634

Pace Project No.: 35578501

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35578501001	2009634-001E	Water	09/16/20 12:30	09/17/20 11:24
35578501002	2009634-002E	Water	09/16/20 13:30	09/17/20 11:24
35578501003	2009634-003E	Water	09/16/20 13:00	09/17/20 11:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2009634
Pace Project No.: 35578501

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35578501001	2009634-001E	EPA 547	PFG	1	PASI-O
35578501002	2009634-002E	EPA 547	PFG	1	PASI-O
35578501003	2009634-003E	EPA 547	PFG	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2009634
Pace Project No.: 35578501

Sample: 2009634-001E		Lab ID: 35578501001		Collected: 09/16/20 12:30		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		09/22/20 04:55		
Sample: 2009634-002E		Lab ID: 35578501002		Collected: 09/16/20 13:30		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		09/22/20 05:26		
Sample: 2009634-003E		Lab ID: 35578501003		Collected: 09/16/20 13:00		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		09/22/20 05:11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2009634
Pace Project No.: 35578501

QC Batch: 666984	Analysis Method: EPA 547
QC Batch Method: EPA 547	Analysis Description: 547 HPLC Glyphosate
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35578501001, 35578501002, 35578501003

METHOD BLANK: 3627820 Matrix: Water
Associated Lab Samples: 35578501001, 35578501002, 35578501003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	mg/L	0.0042 U	0.0060	0.0042	09/21/20 23:28	

LABORATORY CONTROL SAMPLE: 3627821

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	mg/L	0.05	0.051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3627822 3627823

Parameter	Units	35578052001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	0.0042 U	0.05	0.05	0.048	0.048	96	96	80-120	0	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3627824 3627825

Parameter	Units	35578514002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	<4.2 ug/L	0.05	0.05	0.051	0.049	102	98	80-120	4	30	

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: 2009634
Pace Project No.: 35578501

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.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2009634

Pace Project No.: 35578501

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35578501001	2009634-001E	EPA 547	666984		
35578501002	2009634-002E	EPA 547	666984		
35578501003	2009634-003E	EPA 547	666984		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Omega COCID 14648 PAGE: 1 OF: 1

WO#: 35578501



35578501

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837		FAX: (386) 673-4001		EMAIL:			
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2009634-001E See Attached	SW-1	PACE BOTTLE	Surface Water	9/16/2020 12:30:00 PM	1	SW - Glyphosate EPA 547
2	2009634-002E See Attached	SW-3	PACE BOTTLE	Surface Water	9/16/2020 1:30:00 PM	1	SW - Glyphosate EPA 547
3	2009634-003E See Attached	SW-2	PACE BOTTLE	Surface Water	9/16/2020 1:00:00 PM	1	SW - Glyphosate EPA 547

Relinquished By: GRK	Date: 9/16/20	Time: 17:00	Received By: TWA Pace	Date: 9/17/20	Time: 11:24	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY Temp of samples _____ °C Attempt to Cool? _____ Comments: _____	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
TAT: _____	Standard ☐	RUSH ☐	Next BD ☐	2nd BD ☐	3rd BD ☐		
Note: RUSH requests will incur surcharges!							

Project #
Manager:
Client:

WO#: 35578501

PM: SMM
CLIENT: SANLAB

Due Date: 10/01/20

Date and Initials of person:
Examining contents: TMA
Label:
Deliver: 1
pH:

Thermometer Used: T-334 Date: 8/17/20 Time: 11:50 Initials: (E)

State of Origin: ☐ For WV projects, all containers verified to $\pm 6^{\circ}\text{C}$

Cooler #1 Temp. °C	5.1	(Visual)	4.3	(Correction Factor)	5.4	(Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp. °C		(Visual)		(Correction Factor)		(Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp. °C		(Visual)		(Correction Factor)		(Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp. °C		(Visual)		(Correction Factor)		(Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp. °C		(Visual)		(Correction Factor)		(Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp. °C		(Visual)		(Correction Factor)		(Actual)	☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☒ Standard Overnight ☐ Ground ☐ International Priority ☐ Other

Billing: ☒ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8144 0335 7120

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

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

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:		
Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution: Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

September 24, 2020

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2009634
Pace Project No.: 35578484

Dear Tami Bright:

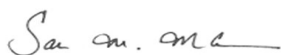
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Sakina Mckenzie
sakina.mckenzie@pacelabs.com
(386)672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2009634
Pace Project No.: 35578484

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2009634

Pace Project No.: 35578484

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35578484001	2009634-001B	Water	09/16/20 12:30	09/17/20 11:24
35578484002	2009634-002B	Water	09/16/20 13:30	09/17/20 11:24
35578484003	2009634-003B	Water	09/16/20 13:00	09/17/20 11:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2009634
Pace Project No.: 35578484

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35578484001	2009634-001B	TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	ARH	1	PASI-O
		EPA 353.2	TM3	1	PASI-O
		EPA 365.3	KLT	1	PASI-O
35578484002	2009634-002B	TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	ARH	1	PASI-O
		EPA 353.2	TM3	1	PASI-O
		EPA 365.3	KLT	1	PASI-O
35578484003	2009634-003B	TKN+NOx Calculation	TLK	1	PASI-O
		EPA 351.2	ARH	1	PASI-O
		EPA 353.2	TM3	1	PASI-O
		EPA 365.3	KLT	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2009634
Pace Project No.: 35578484

Sample: 2009634-001B		Lab ID: 35578484001		Collected: 09/16/20 12:30		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.69	mg/L	0.50	0.086	1		09/24/20 16:23		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Kjeldahl, Total	0.65	mg/L	0.50	0.086	1	09/23/20 11:36	09/24/20 09:32	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.044 I	mg/L	0.050	0.033	1		09/23/20 17:10		
365.3 Phosph. Total Low Level		Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach							
Phosphorus, Total (as P) LL	0.030	mg/L	0.0040	0.0028	1	09/22/20 16:30	09/23/20 12:17	7723-14-0	

Sample: 2009634-002B		Lab ID: 35578484002		Collected: 09/16/20 13:30		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.45 I	mg/L	0.50	0.086	1		09/24/20 16:23		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach							
Nitrogen, Kjeldahl, Total	0.44 I	mg/L	0.50	0.086	1	09/23/20 11:36	09/24/20 09:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.		Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach							
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		09/23/20 17:16		
365.3 Phosph. Total Low Level		Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach							
Phosphorus, Total (as P) LL	0.023	mg/L	0.0040	0.0028	1	09/22/20 16:30	09/23/20 12:22	7723-14-0	

Sample: 2009634-003B		Lab ID: 35578484003		Collected: 09/16/20 13:00		Received: 09/17/20 11:24		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NOx Calculation Pace Analytical Services - Ormond Beach							
Total Nitrogen	0.73	mg/L	0.50	0.086	1		09/24/20 16:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2009634
Pace Project No.: 35578484

Sample: 2009634-003B Lab ID: 35578484003 Collected: 09/16/20 13:00 Received: 09/17/20 11:24 Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 Pace Analytical Services - Ormond Beach								
Nitrogen, Kjeldahl, Total	0.73	mg/L	0.50	0.086	1	09/23/20 11:36	09/24/20 09:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2 Pace Analytical Services - Ormond Beach								
Nitrogen, NO2 plus NO3	0.033 U	mg/L	0.050	0.033	1		09/23/20 17:17		
365.3 Phosph. Total Low Level	Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach								
Phosphorus, Total (as P) LL	0.041	mg/L	0.0040	0.0028	1	09/22/20 16:30	09/23/20 12:23	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2009634
Pace Project No.: 35578484

QC Batch:	667076	Analysis Method:	EPA 351.2
QC Batch Method:	EPA 351.2	Analysis Description:	351.2 TKN
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35578484001, 35578484002, 35578484003

METHOD BLANK: 3628183 Matrix: Water
Associated Lab Samples: 35578484001, 35578484002, 35578484003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086 U	0.50	0.086	09/24/20 14:56	

LABORATORY CONTROL SAMPLE: 3628184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	18.9	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3628186 3628185

Parameter	Units	35578446001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.76	20	20	19.4	19.6	93	94	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3628188 3628187

Parameter	Units	35578615003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	7.3	20	20	27.3	27.4	100	101	90-110	0	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2009634
Pace Project No.: 35578484

QC Batch:	667747	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35578484001, 35578484002, 35578484003

METHOD BLANK: 3631763 Matrix: Water
Associated Lab Samples: 35578484001, 35578484002, 35578484003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.033 U	0.050	0.033	09/23/20 17:07	

LABORATORY CONTROL SAMPLE: 3631764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3631766 3631765

Parameter	Units	35578484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.044 I	2	2	2.2	2.2	108	106	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3631768 3631767

Parameter	Units	35578615005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	4.2	2	2	5.7	5.6	75	71	90-110	1	20 L	

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: 2009634

Pace Project No.: 35578484

QC Batch: 667310

Analysis Method: EPA 365.3

QC Batch Method: EPA 365.3

Analysis Description: 365.3 Low Level Total Phosphorus

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35578484001, 35578484002, 35578484003

METHOD BLANK: 3629088

Matrix: Water

Associated Lab Samples: 35578484001, 35578484002, 35578484003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0028 U	0.0040	0.0028	09/23/20 12:10	

LABORATORY CONTROL SAMPLE: 3629089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.1	0.10	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3629091 3629090

Parameter	Units	35578484001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus, Total (as P) LL	mg/L	0.030	0.1	0.1	0.13	0.13	102	101	80-120	1	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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QUALIFIERS

Project: 2009634
Pace Project No.: 35578484

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.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.

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.
L	Off-scale high. Actual value is known to be greater than value given.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2009634
Pace Project No.: 35578484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35578484001	2009634-001B	TKN+NOx Calculation	668164		
35578484002	2009634-002B	TKN+NOx Calculation	668164		
35578484003	2009634-003B	TKN+NOx Calculation	668164		
35578484001	2009634-001B	EPA 351.2	667076	EPA 351.2	667880
35578484002	2009634-002B	EPA 351.2	667076	EPA 351.2	667880
35578484003	2009634-003B	EPA 351.2	667076	EPA 351.2	667880
35578484001	2009634-001B	EPA 353.2	667747		
35578484002	2009634-002B	EPA 353.2	667747		
35578484003	2009634-003B	EPA 353.2	667747		
35578484001	2009634-001B	EPA 365.3	667310	EPA 365.3	667595
35578484002	2009634-002B	EPA 365.3	667310	EPA 365.3	667595
35578484003	2009634-003B	EPA 365.3	667310	EPA 365.3	667595

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

W0#: 35578484



35578484

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

Omega COCID 14649 PAGE: 1 OF: 1

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837		FAX: (386) 673-4001		EMAIL:			
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2009634-001B E351.2, E365.4	SW-1	250PL-H2SO4	Surface Water	9/16/2020 12:30:00 PM	1	low level TN,TP
2	2009634-002B E351.2, E365.4	SW-3	250PL-H2SO4	Surface Water	9/16/2020 1:30:00 PM	1	low level TN,TP
3	2009634-003B E351.2, E365.4	SW-2	250PL-H2SO4	Surface Water	9/16/2020 1:00:00 PM	1	low level TN,TP

QK 9/16/20

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED:
Relinquished By:	Date:	Time:	Received By: TWAPACE	9/17/20	1124	☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT:	Standard ☐	RUSH ☐	Next BD ☐	2nd BD ☐	3rd BD ☐	FOR LAB USE ONLY
Temp of samples _____ °C Attempt to Cool? _____						
Comments: _____						

Note: RUSH requests will incur surcharges!

WO#: 35578484

rm (SCUR)

Object
Manager
Client

PM: SMM
CLIENT: SANLAB

Due Date: 09/24/20

Date and Initials of person:

Examining contents: TMA

Label: I

Deliver: I

pH:

Thermometer Used: T-338

Date: 8/17/20

Time: 11:50

Initials: (E)

State of Origin:

☐ For WW projects, all containers verified to $\leq 6^{\circ}\text{C}$

Cooler #1 Temp. $^{\circ}\text{C}$ 5.1 (Visual) 4.3 (Correction Factor) 5.4 (Actual)
Cooler #2 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #3 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #4 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #5 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)
Cooler #6 Temp. $^{\circ}\text{C}$ (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☒ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☒ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8144 0335 7120

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

Seals intact: ☐ Yes ☐ No

Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete)

Shorted Date: Shorted Time: Qty:

	Comments:
Chain of Custody Present ☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out ☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC ☒ Yes ☐ No ☐ N/A	No Relinquished By
Samples Arrived within Hold Time ☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC ☐ Yes ☒ No ☐ N/A	
Sufficient Volume ☒ Yes ☐ No ☐ N/A	
Correct Containers Used ☒ Yes ☐ No ☐ N/A	
Containers Intact ☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection) ☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked. ☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation: ☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates	
Headspace in VOA Vials? (>6mm): ☐ Yes ☒ No ☐ N/A	
Trip Blank Present: ☐ Yes ☒ No ☐ N/A	

Preservation Information:
Preservative: _____
Lot #/Trace #: _____
Date: _____ Time: _____
Initials: _____

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

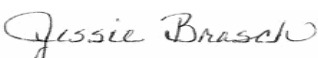
LABORATORY CASE NARRATIVE

Client: Sanders Laboratories, Inc

Report #: 498462CN

All method QC was within acceptance limits.

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	Analytical Services Manager	10/06/2020
Authorized Signature	Title	Date

Page 1 of 1

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Sanders Laboratories, Inc

Attn: Katie Strothman
 10090 Bavaria Road
 Fort Myers, FL 33913

Report: 498462
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4728021	SW-1	S150	09/16/20 12:30	Client	09/17/20 10:15
4728022	SW-3	S150	09/16/20 13:30	Client	09/17/20 10:15
4728023	SW-2	S150	09/16/20 13:00	Client	09/17/20 10:15

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.



Analytical Services Manager

Authorized Signature

Title

10/06/2020

Date

Client Name: Sanders Laboratories, Inc

Report #: 498462

Sampling Point: SW-1

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	09/29/20 07:50	10/01/20 05:29	4728021

Sampling Point: SW-3

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	09/29/20 07:50	10/01/20 05:59	4728022

Sampling Point: SW-2

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	09/29/20 07:50	10/01/20 06:30	4728023

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: $(\text{MS or MSD value} - \text{Sample value}) \times 100 / \text{spike target} / \text{dilution factor} = \text{Recovery \%}$

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 375874
Batch # 498462

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page _____ of _____

REPORT TO:		SAMPLER (Signature)		PWS ID #		STATE (sample origin)		PROJECT NAME		PO#		# OF CONTAINERS		MATRIX CODE		TURNAROUND TIME	
BILL TO:		COMPLIANCE MONITORING		Yes		No		POPULATION SERVED		SOURCE WATER		SAMPLE REMARKS		CHLORINATED			
LAB Number		COLLECTION		SAMPLING SITE		TEST NAME											
		DATE		TIME		AM		PM									
1	4728021	9/16/20	17:30	✓	SW-1												
2	022	9/16/20	13:30	✓	SW-3												
3	023	9/16/20	13:00	✓	SW-2												
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	

RELINQUISHED BY: (Signature)

RELINQUISHED BY: (Signature)

RELINQUISHED BY: (Signature)

DATE

DATE

DATE

RECEIVED BY: (Signature)

RECEIVED BY: (Signature)

RECEIVED FOR LABORATORY BY:

TIME

TIME

TIME

AM | PM

AM | PM

AM | PM

DATE

DATE

DATE

TIME

TIME

TIME

AM | PM

AM | PM

AM | PM

LAB COMMENTS

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

CONDITIONS UPON RECEIPT (check one):

☒ Iced: Wet/Blue
 ☐ Ambient
 ☐ °C Upon Receipt
 N/A

MATRIX CODES:

DW-DRINKING WATER
 RW-REAGENT WATER
 GW-GROUND WATER
 EW-EXPOSURE WATER
 SW-SURFACE WATER
 PW-POOL WATER
 WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
 RW = Rush Written: (5 working days) 50%
 RW* = Rush Written: (5 working days) 75%

IV* = Immediate Verbal: (3 working days) 100%

IW* = Immediate Written: (3 working days) 125%

SP* = Weekend, Holiday CALL

STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 7.0 Effective Date: 2018-10-11

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.



CHAIN OF CUSTODY RECORD

Omega COCID 14647 PAGE: 1 OF: 1

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837		FAX: (386) 673-4001					
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2009634-001D See Attached	SW-1		Surface Water	9/16/2020 12:30:00 PM	1	Fipronil - Ship to Europhins
2	2009634-002D See Attached	SW-3		Surface Water	9/16/2020 1:30:00 PM	1	Fipronil - Ship to Europhins
3	2009634-003D See Attached	SW-2		Surface Water	9/16/2020 1:00:00 PM	1	Fipronil - Ship to Europhins

Relinquished By:	Date: 9/16/2020	Time: 1700	Received By: <i>[Signature]</i>	Date: 09/17/2020	Time: 1015
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
TAT:	Standard ☐	RUSH ☐	Next BD ☐	2nd BD ☐	3rd BD ☐
Note: RUSH requests will incur surcharges!					
REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE					
FOR LAB USE ONLY Temp of samples 3.8 °C Attempt to Cool ? Comments:					

Eurofins Eaton Analytical

Run Log

Run ID: **280409** Method: **S150**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	4736779		OS	DN	09/30/2020 15:38	S150-DN-031516.mth
LFB	4736776		RW	DN	09/30/2020 17:11	S150-DN-031516.mth
LMB	4736772		RW	DN	09/30/2020 18:42	S150-DN-031516.mth
CCC	4737381		OS	DN	10/01/2020 01:53	S150-DN-031516.mth
CCC	4737382		OS	DN	10/01/2020 02:24	S150-DN-031516.mth
FS	4728021	SW-1	SW	DN	10/01/2020 05:29	S150-DN-031516.mth
FS	4728022	SW-3	SW	DN	10/01/2020 05:59	S150-DN-031516.mth
FS	4728023	SW-2	SW	DN	10/01/2020 06:30	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		1040000	876286	ug/L	119	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 15:38	4736779
CCC	IS-Chrysene-d12	S150	N/A	---		690269	626792	ug/L	110	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 15:38	4736779
CCC	IS-Phenanthrene-d10	S150	N/A	---		821444	744704	ug/L	110	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 15:38	4736779
CCC	SS-Triphenylphosphate	S150	N/A	---		4.5190	5.0	ug/L	90	70 - 130	---	---	1.0	09/29/2020 07:50	09/30/2020 15:38	4736779
CCC	Fipronil	S150	0.5	---		5.8850	5.0	ug/L	118	67 - 152	---	---	1.0	09/29/2020 07:50	09/30/2020 15:38	4736779
LFB	IS-Acenaphthene-d10	S150	N/A	---		978779	876286	ug/L	112	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 17:11	4736776
LFB	IS-Chrysene-d12	S150	N/A	---		677174	626792	ug/L	108	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 17:11	4736776
LFB	IS-Phenanthrene-d10	S150	N/A	---		786456	744704	ug/L	106	50 - 150	---	---	1.0	09/29/2020 07:50	09/30/2020 17:11	4736776
LFB	SS-Triphenylphosphate	S150	N/A	---		5.1210	5.0	ug/L	102	70 - 130	---	---	1.0	09/29/2020 07:50	09/30/2020 17:11	4736776
LFB	Fipronil	S150	0.5	---		6.0570	5.0	ug/L	121	65 - 141	---	---	1.0	09/29/2020 07:50	09/30/2020 17:11	4736776
LMB	IS-Acenaphthene-d10	S150	N/A	---		922660	876286	ug/L	105	50 - 150	---	---	0.98	09/29/2020 07:50	09/30/2020 18:42	4736772
LMB	IS-Chrysene-d12	S150	N/A	---		596723	626792	ug/L	95	50 - 150	---	---	0.98	09/29/2020 07:50	09/30/2020 18:42	4736772
LMB	IS-Phenanthrene-d10	S150	N/A	---		736918	744704	ug/L	99	50 - 150	---	---	0.98	09/29/2020 07:50	09/30/2020 18:42	4736772
LMB	SS-Triphenylphosphate	S150	N/A	---		5.3170	5.0	ug/L	109	70 - 130	---	---	0.98	09/29/2020 07:50	09/30/2020 18:42	4736772
LMB	Fipronil	S150	0.5	---	<	0.5		ug/L	---	---	---	---	0.98	09/29/2020 07:50	09/30/2020 18:42	4736772
CCC	IS-Acenaphthene-d10	S150	N/A	---		1035000	876286	ug/L	118	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 01:53	4737381
CCC	IS-Chrysene-d12	S150	N/A	---		688071	626792	ug/L	110	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 01:53	4737381
CCC	IS-Phenanthrene-d10	S150	N/A	---		814570	744704	ug/L	109	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 01:53	4737381
CCC	SS-Triphenylphosphate	S150	N/A	---		5.2690	5.0	ug/L	105	70 - 130	---	---	1.0	09/29/2020 07:50	10/01/2020 01:53	4737381
CCC	IS-Acenaphthene-d10	S150	N/A	---		1038000	876286	ug/L	118	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 02:24	4737382
CCC	IS-Chrysene-d12	S150	N/A	---		639057	626792	ug/L	102	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 02:24	4737382
CCC	IS-Phenanthrene-d10	S150	N/A	---		777924	744704	ug/L	104	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 02:24	4737382
CCC	SS-Triphenylphosphate	S150	N/A	---		5.5310	5.0	ug/L	111	70 - 130	---	---	1.0	09/29/2020 07:50	10/01/2020 02:24	4737382
CCC	Fipronil	S150	0.5	---		6.1760	5.0	ug/L	124	67 - 152	---	---	1.0	09/29/2020 07:50	10/01/2020 02:24	4737382
FS	IS-Acenaphthene-d10	S150	N/A	SW-1		1078000	876286	ug/L	123	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 05:29	4728021
FS	IS-Chrysene-d12	S150	N/A	SW-1		751930	626792	ug/L	120	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 05:29	4728021
FS	IS-Phenanthrene-d10	S150	N/A	SW-1		867775	744704	ug/L	117	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 05:29	4728021
FS	SS-Triphenylphosphate	S150	N/A	SW-1		4.6020	5.0	ug/L	97	70 - 130	---	---	0.95	09/29/2020 07:50	10/01/2020 05:29	4728021
FS	Fipronil	S150	0.5	SW-1	<	0.5		ug/L	---	---	---	---	0.95	09/29/2020 07:50	10/01/2020 05:29	4728021
FS	IS-Acenaphthene-d10	S150	N/A	SW-3		1034000	876286	ug/L	118	50 - 150	---	---	0.97	09/29/2020 07:50	10/01/2020 05:59	4728022
FS	IS-Chrysene-d12	S150	N/A	SW-3		750752	626792	ug/L	120	50 - 150	---	---	0.97	09/29/2020 07:50	10/01/2020 05:59	4728022
FS	IS-Phenanthrene-d10	S150	N/A	SW-3		864237	744704	ug/L	116	50 - 150	---	---	0.97	09/29/2020 07:50	10/01/2020 05:59	4728022
FS	SS-Triphenylphosphate	S150	N/A	SW-3		4.8330	5.0	ug/L	100	70 - 130	---	---	0.97	09/29/2020 07:50	10/01/2020 05:59	4728022
FS	Fipronil	S150	0.5	SW-3	<	0.5		ug/L	---	---	---	---	0.97	09/29/2020 07:50	10/01/2020 05:59	4728022
FS	IS-Acenaphthene-d10	S150	N/A	SW-2		1045000	876286	ug/L	119	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 06:30	4728023
FS	IS-Chrysene-d12	S150	N/A	SW-2		762013	626792	ug/L	122	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 06:30	4728023
FS	IS-Phenanthrene-d10	S150	N/A	SW-2		878441	744704	ug/L	118	50 - 150	---	---	0.95	09/29/2020 07:50	10/01/2020 06:30	4728023
FS	SS-Triphenylphosphate	S150	N/A	SW-2		4.6890	5.0	ug/L	99	70 - 130	---	---	0.95	09/29/2020 07:50	10/01/2020 06:30	4728023
FS	Fipronil	S150	0.5	SW-2	<	0.5		ug/L	---	---	---	---	0.95	09/29/2020 07:50	10/01/2020 06:30	4728023

Eurofins Eaton Analytical

Run Log

Run ID: **280426** Method: **S150**

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	4738319		OS	DN	10/01/2020 08:44	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		1014000	876286	ug/L	116	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 08:44	4738319
CCC	IS-Chrysene-d12	S150	N/A	---		671188	626792	ug/L	107	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 08:44	4738319
CCC	IS-Phenanthrene-d10	S150	N/A	---		786778	744704	ug/L	106	50 - 150	---	---	1.0	09/29/2020 07:50	10/01/2020 08:44	4738319
CCC	SS-Triphenylphosphate	S150	N/A	---		5.2830	5.0	ug/L	106	70 - 130	---	---	1.0	09/29/2020 07:50	10/01/2020 08:44	4738319

Eurofins Eaton Analytical

Run Log

Run ID: **280468** Method: **S150**

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	4741069		OS	DN	10/05/2020 12:36	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		956099	876286	ug/L	109	50 - 150	---	---	1.0	09/29/2020 07:50	10/05/2020 12:36	4741069
CCC	IS-Chrysene-d12	S150	N/A	---		549304	626792	ug/L	88	50 - 150	---	---	1.0	09/29/2020 07:50	10/05/2020 12:36	4741069
CCC	IS-Phenanthrene-d10	S150	N/A	---		732943	744704	ug/L	98	50 - 150	---	---	1.0	09/29/2020 07:50	10/05/2020 12:36	4741069
CCC	SS-Triphenylphosphate	S150	N/A	---		5.6820	5.0	ug/L	114	70 - 130	---	---	1.0	09/29/2020 07:50	10/05/2020 12:36	4741069

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCC	Continuing Calibration Check		
FS	Field Sample		
LFB	Laboratory Fortified Blank		
LMB	Laboratory Method Blank		

END OF REPORT



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

February 26, 2021

Andy McThenia
Water Science Associates
13620 Metropolis Avenue, Suite 110
Fort Myers, FL 33912
TEL:
FAX:

RE: River Hall Golf Course

Order No.: 2102424

Dear Andy McThenia:

Sanders Laboratories, Inc received 3 sample(s) on 2/10/2021 for the analyses presented in the following report.

These results only pertain to the samples as received. These pages may include, but are not limited to: Analytical Data, Chains of Custodies, Subcontracted Data and Case Narratives for samples. Results relate only to the samples in the report.

Reports are archived for a minimum of 5 years. Copies of reports are available for a fee of \$50.00. Copies will be provided within 2 weeks of the time of the request.
Laboratory PQL's are available upon request.

Test results meet all the requirements of the NELAP standards, unless otherwise noted.
Nokomis Certificate # E84380 Fort Myers Certificate # E85457

A statement of estimated uncertainty of results is available upon request.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Katie Strothman
Laboratory Director



*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337 FAX: (239) 590-0536
Website: www.sanderslabs.net*

Definition Only

WO#: 2102424
Date: 2/26/2021

Definitions:

B: Results based upon colony counts outside the acceptable range.

G: Sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples. Also if the RPD on a field duplicate exceeds allowable control limit.

I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.

J: Estimated Value.

J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.

K: Off scale low, actual value is known to be less than the value given.

L: Off scale high, actual value is known to be greater than the value given.

NC: Not Certified. Parameter was ran but is not covered under laboratory accredited scopes.

Q: Sample held beyond acceptable holding time.

U: The compound was analyzed for, but not detected.

V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

Y: The laboratory analysis was from an improperly preserved sample.

Z: Too many colonies were present for accurate counting.



Ft. Myers Lab02
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Analytical Report

(continuous)

WO#: 2102424

Date Reported: 2/26/2021

CLIENT: Water Science Associates

Lab Order: 2102424

Project: River Hall Golf Course

Lab ID: 2102424-001

Collection Date: 2/10/2021 8:35:00 AM

Client Sample ID: SW-1

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

NITROGEN, NITRATE + NITRITE

E353.2

Analyst: PS

Nitrogen, Nitrate	ND	0.0100		mg/L	1	2/15/2021 1:03:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	2/15/2021 1:03:00 PM

TOTAL NITROGEN

E351.2

Analyst: GC

Nitrogen, Total	1.16	0.0300		mg/L	1	2/17/2021 12:36:00 PM
-----------------	------	--------	--	------	---	-----------------------

NITROGEN, NITRITE

A4500-NO2-B

Analyst: SP

Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2021 2:55:00 PM
-------------------	----	--------	--	------	---	----------------------

CHLOROPHYLL A

A10200H

Analyst: GC

Chlorophyll a	ND	1.00		mg/m ³	1	2/11/2021 1:31:00 PM
Pheophytin	2.54	1.00		mg/m ³	1	2/11/2021 1:31:00 PM

FIELD PARAMETERS

FLD

Analyst:

Conductivity, EPA 120.1	927	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	5.66	0.10		mg/L		
pH, EPA 150.1	8.03	0.01		S.U.		
Salinity	0.46	0.01		ppt		
Temperature, EPA 170.1	22.7	0.1		deg C		
Turbidity, EPA 180.1	3.84	0.01		NTU		

Qualifiers: H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at test code

Original



Ft. Myers Lab02
10090 Bavaria Rd.
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Website: www.sanderslabs.net

Analytical Report

(continuous)

WO#: 2102424

Date Reported: 2/26/2021

CLIENT: Water Science Associates

Lab Order: 2102424

Project: River Hall Golf Course

Lab ID: 2102424-002

Collection Date: 2/10/2021 9:50:00 AM

Client Sample ID: SW-3

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE				E353.2		Analyst: PS
Nitrogen, Nitrate	0.229	0.0100		mg/L	1	2/15/2021 1:03:00 PM
Nitrogen, Nitrate-Nitrite	0.229	0.0100		mg/L	1	2/15/2021 1:03:00 PM
TOTAL NITROGEN				E351.2		Analyst: GC
Nitrogen, Total	1.01	0.0300		mg/L	1	2/17/2021 12:36:00 PM
NITROGEN, NITRITE				A4500-NO2-B		Analyst: SP
Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2021 2:55:00 PM
CHLOROPHYLL A				A10200H		Analyst: GC
Chlorophyll a	ND	1.00		mg/m ³	1	2/11/2021 1:31:00 PM
Pheophytin	1.26	1.00		mg/m ³	1	2/11/2021 1:31:00 PM
FIELD PARAMETERS				FLD		Analyst:
Conductivity, EPA 120.1	348.2	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	5.41	0.10		mg/L		
pH, EPA 150.1	7.93	0.01		S.U.		
Salinity	0.17	0.01		ppt		
Temperature, EPA 170.1	23.3	0.1		deg C		
Turbidity, EPA 180.1	0.88	0.01		NTU		

Qualifiers:
H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode



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Analytical Report

(continuous)

WO#: 2102424

Date Reported: 2/26/2021

CLIENT: Water Science Associates

Lab Order: 2102424

Project: River Hall Golf Course

Lab ID: 2102424-003

Collection Date: 2/10/2021 9:15:00 AM

Client Sample ID: SW-2

Matrix: SURFACE WATER

Analyses	Result	MDL	Qual	Units	DF	Date Analyzed
NITROGEN, NITRATE + NITRITE				E353.2	Analyst: PS	
Nitrogen, Nitrate	ND	0.0100		mg/L	1	2/15/2021 1:03:00 PM
Nitrogen, Nitrate-Nitrite	ND	0.0100		mg/L	1	2/15/2021 1:03:00 PM
TOTAL NITROGEN				E351.2	Analyst: GC	
Nitrogen, Total	0.960	0.0300		mg/L	1	2/17/2021 12:36:00 PM
NITROGEN, NITRITE				A4500-NO2-B	Analyst: SP	
Nitrogen, Nitrite	ND	0.0100		mg/L	1	2/11/2021 2:55:00 PM
CHLOROPHYLL A				A10200H	Analyst: GC	
Chlorophyll a	ND	1.00		mg/m ³	1	2/11/2021 1:31:00 PM
Pheophytin	2.78	1.00		mg/m ³	1	2/11/2021 1:31:00 PM
FIELD PARAMETERS				FLD	Analyst:	
Conductivity, EPA 120.1	799	1.0		umhos/cm		
Dissolved Oxygen, EPA 360.1	4.13	0.10		mg/L		
pH, EPA 150.1	8.21	0.01		S.U.		
Salinity	0.39	0.01		ppt		
Temperature, EPA 170.1	23.2	0.1		deg C		
Turbidity, EPA 180.1	4.57	0.01		NTU		

Qualifiers:
H Holding times for preparation or analysis exceeded
PL Permit Limit
U Samples with CalcVal < MDL

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

PAGE: 1 OF: 3

2102 424

Fl. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUBMITTING COMPANY Water Science Associates						REPORT TO: Andy McThenia						BILL TO: P.O.#													
PROJECT NAME:			PROJECT #:			QUOTE #:			COMPANY: Water Science Associates						COMPANY: Water Science Associates										
River Hall Golf Course			WSA - River Hall Golf C						ADDRESS: 13620 Metropolis Avenue, Suite 110						ADDRESS: 13620 Metropolis Avenue, Suite 110										
SPECIAL INSTRUCTIONS / COMMENTS:									CITY, STATE, ZIP: Fort Myers, FL. 33912						CITY, STATE, ZIP: Fort Myers, FL. ZIP#33912										
Kat #									PHONE:						EMAIL (OR FAX IF NO EMAIL AVAILABLE)										
SAMPLER'S PRINTED NAME: Amy Mury						SAMPLER'S SIGNATURE: [Signature]						ANALYTICAL PARAMETERS						COMMENTS: Send Fiprinol to Europhins Lab							
ITEM #	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	pH	MAIN	Bottle Lot #	GRAB VOLUME OR COMPOSITE %	NUMBER OF CONTAINERS	CHLOROA	NO ₂ PM	NOX	SA	TN	TP											
1	SW-1	2/10	8:35	8.03	SW	8038006				✓	✓														
2	SW-1												✓	✓	H2SO4 pH 2										
3	SW-1					EPA 8081			✓																
4	SW-1					216603						✓			Fiprinol - Ship to Europhins										
5	SW-1					EPA 547						✓			SW - Glyphosate EPA 547										
6	SW-3		9:50	7.93		8038006				✓	✓				2										
7	SW-3												✓	✓	H2SO4 pH 2										
8	SW-3					EPA 8081			✓																
9	SW-3					216603						✓			Fiprinol - Ship to Europhins										
10	SW-3					EPA 547						✓			SW - Glyphosate EPA 547										

Relinquished By: [Signature]		Date: 2/10/21	Time: 14:25	Received By: TWA		Date: 2/10/21	Time: 14:25	REPORT TRANSMITTAL DESIRED:	
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:		Date:	Time:	Received By:		Date:	Time:	FOR LAB USE ONLY Temp of samples: 7.6 °C Attempt to Cool? Y Comments:	

TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

PAGE: 2 OF: 3

2102 424

*Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
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Website: www.sanderslabs.net*

SUBMITTING COMPANY: Water Science Associates			REPORT TO: Andy McThenia			BILL TO: P.O. #																																																																																						
PROJECT NAME: River Hall Golf Course			COMPANY: Water Science Associates			COMPANY: Water Science Associates																																																																																						
PROJECT #: WSA - River Hall Golf C			ADDRESS: 13620 Metropolis Avenue, Suite 110			ADDRESS: 13620 Metropolis Avenue, Suite 110																																																																																						
QUOTE #: 			CITY, STATE, ZIP: Fort Myers, FL. 33912			CITY, STATE, ZIP: Fort Myers, FL. ZIP#33912																																																																																						
SPECIAL INSTRUCTIONS / COMMENTS: 			PHONE: 			EMAIL (OR FAX IF NO EMAIL AVAILABLE): 																																																																																						
Kit # 			SAMPLER'S PRINTED NAME: 			SAMPLER'S SIGNATURE: 																																																																																						
ANALYTICAL PARAMETERS			COMMENTS																																																																																									
<table border="1"> <thead> <tr> <th>ITEM #</th> <th>SAMPLE ID</th> <th>DATE SAMPLED</th> <th>TIME SAMPLED</th> <th>pH</th> <th>Meas</th> <th>Bottle Lot #</th> <th>NUMBER OF CONTAINERS GRAB VOT OR COMPOSITE VOT</th> <th>CITOTOX</th> <th>NO2 PM</th> <th>NOX</th> <th>SA</th> <th>TS</th> <th>TP</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>SW-2</td> <td>2/10</td> <td>9:15</td> <td>8.21</td> <td>SW</td> <td>8038006</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>SW-2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>13</td> <td>SW-2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>EPA 8081</td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>SW-2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>216603</td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>SW-2</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>EPA 547</td> <td></td> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			ITEM #	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	pH	Meas	Bottle Lot #	NUMBER OF CONTAINERS GRAB VOT OR COMPOSITE VOT	CITOTOX	NO2 PM	NOX	SA	TS	TP	11	SW-2	2/10	9:15	8.21	SW	8038006			✓	✓				12	SW-2	1	1	1	1	1					✓	✓		13	SW-2	1	1	1	1	EPA 8081		✓						14	SW-2	1	1	1	1	216603				✓				15	SW-2	1	1	1	1	EPA 547				✓				Send Fiprinol to Europhins Lab Methanol Preserved Weighes. HOT Sample Notation. Additional Sample Description etc					
ITEM #	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	pH	Meas	Bottle Lot #	NUMBER OF CONTAINERS GRAB VOT OR COMPOSITE VOT	CITOTOX	NO2 PM	NOX	SA	TS	TP																																																																															
11	SW-2	2/10	9:15	8.21	SW	8038006			✓	✓																																																																																		
12	SW-2	1	1	1	1	1					✓	✓																																																																																
13	SW-2	1	1	1	1	EPA 8081		✓																																																																																				
14	SW-2	1	1	1	1	216603				✓																																																																																		
15	SW-2	1	1	1	1	EPA 547				✓																																																																																		
			H2SO4			pH2																																																																																						
			Fiprinol - Ship to Europhins			SW - Glyphosate EPA 547																																																																																						

Relinquished By: <i>anyway</i>	Date: <i>2/10/21</i>	Time: <i>14:25</i>	Received By: <i>TAT</i>	Date: <i>2/10/21</i>	Time: <i>14:25</i>	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY Temp of samples: <i>7.6</i> °C Attempt to Cool? <i>y</i> Comments: _____	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
TAT: Standard ☐ RUSH ☒ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Note: RUSH requests will incur surcharges!	

PAGE: 3 OF: 3

FL Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
e: www.sanderslabs.net

SUBMITTING COMPANY:						Water Science Associates	REPORT TO:							Andy McThenia								BILL TO:																																																																																		
PROJECT NAME:						River Hall Golf Course	PROJECT #:						WSA - River Hall Golf C						QUOTE #:												COMPANY:									Water Science Associates																																																																
SPECIAL INSTRUCTIONS / COMMENTS:																														ADDRESS:									13620 Metropolis Avenue, Suite 110																																																																	
																																				CITY, STATE, ZIP:									Fort Myers, FL. 33912																																																											
Kit #																																										PHONE:																		EMAIL (OR FAX IF NO EMAIL AVAILABLE):																																												
SAMPLER'S PRINTED NAME:						Amy Murray						SAMPLER'S SIGNATURE:						[Signature]						ANALYTICAL PARAMETERS																											COMMENTS																											Send Fiprinol to Europhins Lab																										
ITEM #	SAMPLE ID					DATE SAMPLED	TIME SAMPLED	pH	MISC	Bottle Lot #	NUMBER OF CONTAINERS GRAB "G" OR COMPOSITE "C"	CHLOROA	NITRIN	NOX	SA	TN	TP																			Methanol Preserved Weights HOT Sample Notation Additional Sample Description etc.																																																																				

Testcode to method definitions: ALK=A2320,APC=BAMCH23,APC PETRI=AOAC 990.12,APC/G-CCMEF 6.33/AOAC 966.23,APC/ML-CCFRA 2.1,APC/SWAB=AOAC 986.33,BOD=A5210B,BOD FM=A5210B,Ca Hard=EPA 215.2,CBOD=A5210B,CBOD FM=A5210B,CHLORO-A=A10200H,CL- B DW=A4500-CL-B,CL- E NP=A4500-CL-E,CL- SOLID=FM 5-552,CL 2=E330.5,CL 2 FM=E330.5,COLI PETRI=AOAC 991.14,COLOR=A2120B,Color FM=A2120B,COND=A2510B,COND FM=A2510B,EB=AOAC 2003.01,EB C=CMMEF 8.631,EC 0157=AOAC Cert #001101,EC J=AOAC 992.3,EC01572=AOAC 996.09,ECOLI=EC + MUG,Enterococcus=E1600,ENTEROLERT=Enterolert,F=A4500-F-C,F=C=A9222D,FC FM=A9222D,FC MPN=A9221E,FC MPN FM=A9221E,FC MUG=A9223B,FC MUG FM=A9223B,FC STREP=A9230C,FCMPN=A9221E,HARD=A2340C,HPC=A9215B,LEGA=Legiolert,LIST PCR=AOAC #090701,LISTERIA BR=R1030406,L MONO PCR=010802,MOLD FDA=BAM Ch. 18,MOLD G RES=ASTM D3273,MOLD ID=McCrone,NH3=E350.1,NH3 Solid=E350.1,NH4=E350.1,NO2=E353.2,NO2 FM=A4500-NO2-B,NO3 SOLID=E353.2,NOX=E353.2,NOX Solid=E353.2,ODOR=A2150B,Odor FM=A2150B,OPHOS=A4500-P-E,Org N=E351.2,Org N Solid=E351.2,PH=A4500-H-B,PH F=AOAC 981.12,pH FM=A4500-H-B,pH Sludge=E9040C,PH SOLID=E9045D,SALM PCR=010803,SIO2=A4500-SIO2-C,SO4=ASTM-D516-90,STAPH=AOAC 2003.07,Strep=A9230C,SA- Subcontract PACE BCS ALS FRC Microbac Eurofins,TC MF=A9222B,TC MF FM=A9222B,TC MUG=A9223B,TC MUG FM=A9223B,TDS=A2540C,TDS FM=A2540C,TKN=E351.2,TKN Solid=E351.2,TN=E351.2,TN Solid=E351.2,TP=E365.4,TP Diss=E365.4,TP Solid=E365.4,TS=A2540B,TS FM=A2540G,TSS=A2540D,TSS FM=A2540D,TURB=E180.1,TVSS=E160.4,Un NH3=E350.1,Y M=FDA/BAM 8th Ed.

Relinquished By: <i>anyany</i>	Date: <i>2/10/21</i>	Time: <i>14:25</i>	Received By: <i>TJA</i>	Date: <i>2/10/21</i>	Time: <i>1425</i>	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY Temp of samples <i>7.6</i> °C Attempt to Cool ? <i>y</i> Comments:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
TAT: Standard ☐ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐						Note: RUSH requests will incur surcharge!	



Date: 2/10/21
 Field Tech Amy Murry
 Location: Riverhall G.G.

Site	Time	Flow* Ft/sec or tidal change	Total Depth ft	Sample Depth (ft)	Water Temp EPA 170.1 (C)	DO EPA 360.1 (mg/L)	DO (%)	Cond EPA 120.1 (umhos /cm)	Salinity M 250B (ppm)	pH EPA 150.1 (std units)	Turbidity EPA 180.1 (NTU)	Weather Cloud Cover Wind		Air Temp (C)	Secchi (ft)
SW-1 ^{SW-1}	8:35	N/A	2.0	1.0	22.7	5.66	66.3	927	0.46	8.03	3.84	10%	E 2.0 mph	18.88	—
SW-2	9:15	N/A	1.0	1.0	23.2	4.13	48.4	799	0.39	8.21	4.57	40%	E 5.0 mph	22.22	—
SW-3	9:50	N/A	1.0	1.0	23.3	5.41	62.9	348.2	0.17	7.93	0.88	30%	ESE 6.0 mph	22.77	—

Tests/Bottles/Preservatives:

Lot #	Preservative
250P	4030006 Ice/H ₂ O
500 P	
1LP	EPA 800/407535 Trizma/H ₂ O
2LP	
Other	3mL/216603 Trizma/H ₂ O

40.0
Amy 2/10

Equipment Used: (circle)

Dip Stick	2	Secchi	4999
Multi	Turb	Depth	Peri Pump Sub Pump
20A100132	18051784	6240	4116 O16549

Date Revised: 5/19/2020 Form ID: FF-03 Approved by: KS

Comments:

February 17, 2021

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2102424
Pace Project No.: 35611629

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2102424
Pace Project No.: 35611629

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2102424

Pace Project No.: 35611629

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35611629001	2102424-001	Water	02/10/21 08:35	02/12/21 13:15
35611629002	2102424-002	Water	02/10/21 09:50	02/12/21 13:15
35611629003	2102424-003	Water	02/10/21 09:15	02/12/21 13:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2102424

Pace Project No.: 35611629

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35611629001	2102424-001	EPA 547	ERS	1	PASI-O
35611629002	2102424-002	EPA 547	ERS	1	PASI-O
35611629003	2102424-003	EPA 547	ERS	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: 2102424
Pace Project No.: 35611629

Sample: 2102424-001		Lab ID: 35611629001		Collected: 02/10/21 08:35		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/16/21 23:42		
Sample: 2102424-002		Lab ID: 35611629002		Collected: 02/10/21 09:50		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/17/21 01:01		
Sample: 2102424-003		Lab ID: 35611629003		Collected: 02/10/21 09:15		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate		Analytical Method: EPA 547 Pace Analytical Services - Ormond Beach							
Glyphosate	0.0042 U	mg/L	0.0060	0.0042	1		02/17/21 00:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2102424
Pace Project No.: 35611629

QC Batch:	705456	Analysis Method:	EPA 547
QC Batch Method:	EPA 547	Analysis Description:	547 HPLC Glyphosate
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35611629001, 35611629002, 35611629003

METHOD BLANK: 3843772 Matrix: Water
Associated Lab Samples: 35611629001, 35611629002, 35611629003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Glyphosate	mg/L	0.0042 U	0.0060	0.0042	02/16/21 20:20	

LABORATORY CONTROL SAMPLE: 3843773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Glyphosate	mg/L	0.05	0.052	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3843774 3843775

Parameter	Units	35611712002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.032	0.034	64	68	80-120	7	30	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3843776 3843777

Parameter	Units	35610932001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Glyphosate	mg/L	4.2 U ug/L	0.05	0.05	0.053	0.054	106	108	80-120	2	30	

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: 2102424
Pace Project No.: 35611629

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.
TNTC - Too Numerous To Count
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.

ANALYTE QUALIFIERS

U	Compound was analyzed for but not detected.
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: 2102424

Pace Project No.: 35611629

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35611629001	2102424-001	EPA 547	705456		
35611629002	2102424-002	EPA 547	705456		
35611629003	2102424-003	EPA 547	705456		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Omega COCID 15836 PAGE: 1 OF: 1

ADDRESS
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

WO#: 35611629



35611629

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837 FAX: (386) 673-4001 EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2102424-001E See Attached	SW-1	PACE BOTTLE	Surface Water	2/10/2021 8:35:00 AM	1	SW - Glyphosate EPA 547
2	2102424-002E See Attached	SW-3	PACE BOTTLE	Surface Water	2/10/2021 9:50:00 AM	1	SW - Glyphosate EPA 547
3	2102424-003E See Attached	SW-2	PACE BOTTLE	Surface Water	2/10/2021 9:15:00 AM	1	SW - Glyphosate EPA 547

Relinquished By: <i>[Signature]</i>	Date: 2/10/2021	Time: 3:27 PM	Received By: <i>[Signature]</i>	Date: 2-12-21	Time: 1:15	REPORT TRANSMITTAL DESIRED: ☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	FOR LAB USE ONLY	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Temp of samples _____ °C Attempt to Cool? _____	
TAT: Standard ☐ RUSH ☐ Next BD ☐ 2nd BD ☐ 3rd BD ☐						Comments: _____	
Note: RUSH requests will incur surcharges!							

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

WO# : 35611629

Project #
Project Manager:
Client:

PM: BTS **Due Date: 02/26/21**
CLIENT: SANLAB

Date and Initials of person:

Examining contents: JW
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T338 Date: 2/12/21 Time: 1331 Initials: Hmw

State of Origin: _____ ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp.°C <u>4.3</u> (Visual) <u>+0.3</u> (Correction Factor) <u>4.6</u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp.°C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____
Shipping Method: ☐ First Overnight ☐ Priority Overnight ☒ Standard Overnight ☐ Ground ☐ International Priority

Billing: ☒ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8152 6470 8505

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

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

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

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

Project Manager Review: _____

Date: _____

February 22, 2021

Tami Bright
Sanders Laboratories, Inc.
1050 Endeavor Court
Nokomis, FL 34275

RE: Project: 2102424
Pace Project No.: 35611622

Dear Tami Bright:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Brad Smith
brad.smith@pacelabs.com
(386) 672-5668
Project Manager

Enclosures

cc: Katie Strothman, Sanders
Katie Strothman, Sanders Laboratories, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 2102424
Pace Project No.: 35611622

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
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
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Ohio DEP 87780
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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2102424

Pace Project No.: 35611622

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35611622001	2102424-001	Water	02/10/21 08:35	02/12/21 13:15
35611622002	2102424-002	Water	02/10/21 09:50	02/12/21 13:15
35611622003	2102424-003	Water	02/10/21 09:15	02/12/21 13:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2102424
Pace Project No.: 35611622

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35611622001	2102424-001	EPA 365.3	MRC	1	PASI-O
35611622002	2102424-002	EPA 365.3	MRC	1	PASI-O
35611622003	2102424-003	EPA 365.3	MRC	1	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2102424
Pace Project No.: 35611622

Sample: 2102424-001		Lab ID: 35611622001		Collected: 02/10/21 08:35		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.3 Phosph. Total Low Level	Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach								
Phosphorus, Total (as P) LL	0.0095	mg/L	0.0040	0.0028	1	02/19/21 14:07	02/19/21 16:21	7723-14-0	
Sample: 2102424-002		Lab ID: 35611622002		Collected: 02/10/21 09:50		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.3 Phosph. Total Low Level	Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach								
Phosphorus, Total (as P) LL	0.0082	mg/L	0.0040	0.0028	1	02/19/21 14:07	02/19/21 16:22	7723-14-0	
Sample: 2102424-003		Lab ID: 35611622003		Collected: 02/10/21 09:15		Received: 02/12/21 13:15		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
365.3 Phosph. Total Low Level	Analytical Method: EPA 365.3 Preparation Method: EPA 365.3 Pace Analytical Services - Ormond Beach								
Phosphorus, Total (as P) LL	0.022	mg/L	0.0040	0.0028	1	02/19/21 14:07	02/19/21 16:23	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2102424
Pace Project No.: 35611622

QC Batch:	706603	Analysis Method:	EPA 365.3
QC Batch Method:	EPA 365.3	Analysis Description:	365.3 Low Level Total Phosphorus
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35611622001, 35611622002, 35611622003

METHOD BLANK: 3851084 Matrix: Water
Associated Lab Samples: 35611622001, 35611622002, 35611622003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.0028 U	0.0040	0.0028	02/19/21 16:01	

LABORATORY CONTROL SAMPLE: 3851085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P) LL	mg/L	0.1	0.093	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3851087 3851086

Parameter	Units	35611337009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus, Total (as P) LL	mg/L	0.032	0.1	0.1	0.12	0.13	89	100	80-120	9	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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QUALIFIERS

Project: 2102424
Pace Project No.: 35611622

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.

TNTC - Too Numerous To Count

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2102424

Pace Project No.: 35611622

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35611622001	2102424-001	EPA 365.3	706603	EPA 365.3	706696
35611622002	2102424-002	EPA 365.3	706603	EPA 365.3	706696
35611622003	2102424-003	EPA 365.3	706603	EPA 365.3	706696

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Omega COCID 15844

PAGE: 1

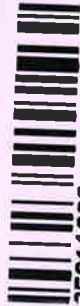
OF: 1

ADDRESS

Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net



W0#: 35611622



35611622

SUB CONTRACTOR: Pace		COMPANY: Pace Analytical		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS: 8 East Tower Circle							
CITY, STATE, ZIP: Ormond Beach, FL 32174							
PHONE: (386) 676-4837 FAX: (386) 673-4001 EMAIL:							
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	2102424-001B See Attached	SW-1	250PL-H2SO4	Surface Water	2/10/2021 8:35:00 AM	1	LOW LEVEL TP
2	2102424-002B See Attached	SW-3	250PL-H2SO4	Surface Water	2/10/2021 9:50:00 AM	1	
3	2102424-003B See Attached	SW-2	250PL-H2SO4	Surface Water	2/10/2021 9:15:00 AM	1	

Relinquished By: <i>THA</i>	Date: 2/10/21	Time: 12:15	Received By: <i>[Signature]</i>	Date: 2-12-21	Time: 12:15	REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
TAT:	Standard ☐	RUSH ☐	Next BD ☐	2nd BD ☐	3rd BD ☐	FOR LAB USE ONLY Temp of samples 4.6 °C Attempt to Cool? ☐	
						Comments:	

	Document Name: Sample Condition Upon Receipt Form	Document Revised: May 30, 2018
	Document No.: F-FL-C-007 rev. 13	Issuing Authority: Pace Florida Quality Office

Project #
Project Manager:
Client:

WO# : 35611622

PM: BTS Due Date: 02/19/21
CLIENT: SANLAB

Date and Initials of person:

Examining contents: JUL
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T338 Date: 2/12/21 Time: 1331 Initials: Hmm

State of Origin: _____ ☐ For WV projects, all containers verified to ≤6 °C

Cooler #1 Temp. °C <u>4.3</u> (Visual) <u>+0.3</u> (Correction Factor) <u>4.6</u> (Actual)	☐ Samples on ice, cooling process has begun
Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)	☐ Samples on ice, cooling process has begun

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

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☒ Standard Overnight ☐ Ground ☐ International Priority

Billing: ☒ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 8152 6470 8505

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: (Wet) Blue Dry None

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

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☐ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☐ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____ Page 10 of 10

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: Sanders Laboratories, Inc

 Attn: Katie Strothman
 10090 Bavaria Road
 Fort Myers, FL 33913

Report: 510508
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4834682	2102424-001D/SW-1	S150	02/10/21 08:35	Client	02/15/21 10:00
4834683	2102424-002D/SW-3	S150	02/10/21 09:50	Client	02/15/21 10:00
4834684	2102424-003D/SW-2	S150	02/10/21 09:15	Client	02/15/21 10:00

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.



Analytical Services Manager

Authorized Signature

Title

02/24/2021

Date

Client Name: Sanders Laboratories, Inc
 Report #: 510508

Client Name: Sanders Laboratories, Inc

Report #: 510508

Sampling Point: 2102424-001D/SW-1

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/17/21 07:52	02/17/21 19:54	4834682

Sampling Point: 2102424-002D/SW-3

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/17/21 07:52	02/17/21 20:25	4834683

Sampling Point: 2102424-003D/SW-2

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
120068-37-3	Fipronil	S150	---	0.5	< 0.5	ug/L	02/17/21 07:52	02/17/21 20:55	4834684

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: $(\text{MS or MSD value} - \text{Sample value}) \times 100 / \text{spike target} / \text{dilution factor} = \text{Recovery \%}$

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



CHAIN OF CUSTODY RECORD

Omega COCID 15835

PAGE: 1

OF: 1

ADDRESS
407535
510508
Ft. Myers Lab02
10090 Bavaria Rd.
Fort Myers, FL 33913
TEL: (239) 590-0337
FAX: (239) 590-0536
Website: www.sanderslabs.net

SUB CONTRACTOR: Eurofins		COMPANY:		SPECIAL INSTRUCTIONS / COMMENTS:			
ADDRESS:							
CITY, STATE, ZIP:							
PHONE:		FAX:		EMAIL:			
ACCOUNT #:							
ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description.
1	2102424-001D See Attached	SW-1		Surface Water	2/10/2021 8:35:00 AM	1	Fipronil - Ship to Eurofins 4834682
2	2102424-002D See Attached	SW-3		Surface Water	2/10/2021 9:50:00 AM	1	Fipronil - Ship to Eurofins 83
3	2102424-003D See Attached	SW-2		Surface Water	2/10/2021 9:15:00 AM	1	Fipronil - Ship to Eurofins 84

Med red cooler
#069

Relinquished By: <i>MLH</i>	Date: 2/11/21	Time:	Received By:	Date:	Time:	REPORT TRANSMITTAL DESIRED: ☐ HARD COPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:		
Relinquished By:	Date:	Time:	Received By: <i>Tracy-Note</i>	Date: 02-15-21	Time: 1000	FOR LAB USE ONLY Temp of samples 4.0 °C Attempt to Cool ? Comments:	
TAT:	Standard ☐		RUSH	Next BD ☐	2nd BD ☐	3rd BD ☐	
Note: RUSH requests will incur surcharges!							



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: **285714** Method: **S150**

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	4835772		OS	DN	02/17/2021 17:20	S150-DN-031516.mth
LFB	4835771		RW	DN	02/17/2021 17:51	S150-DN-031516.mth
LMB	4835770		RW	DN	02/17/2021 19:23	S150-DN-031516.mth
FS	4834682	2102424-001D/SW-1	SW	DN	02/17/2021 19:54	S150-DN-031516.mth
FS	4834683	2102424-002D/SW-3	SW	DN	02/17/2021 20:25	S150-DN-031516.mth
FS	4834684	2102424-003D/SW-2	SW	DN	02/17/2021 20:55	S150-DN-031516.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Acenaphthene-d10	S150	N/A	---		860903	876286	ug/L	98	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:20	4835772
CCC	IS-Chrysene-d12	S150	N/A	---		478273	626792	ug/L	76	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:20	4835772
CCC	IS-Phenanthrene-d10	S150	N/A	---		606055	744704	ug/L	81	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:20	4835772
CCC	SS-Triphenylphosphate	S150	N/A	---		6.3010	5.0	ug/L	126	70 - 130	---	---	1.0	02/17/2021 07:52	02/17/2021 17:20	4835772
CCC	Fipronil	S150	0.5	---		7.0990	5.0	ug/L	142	67 - 152	---	---	1.0	02/17/2021 07:52	02/17/2021 17:20	4835772
LFB	IS-Acenaphthene-d10	S150	N/A	---		857924	876286	ug/L	98	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:51	4835771
LFB	IS-Chrysene-d12	S150	N/A	---		513743	626792	ug/L	82	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:51	4835771
LFB	IS-Phenanthrene-d10	S150	N/A	---		641336	744704	ug/L	86	50 - 150	---	---	1.0	02/17/2021 07:52	02/17/2021 17:51	4835771
LFB	SS-Triphenylphosphate	S150	N/A	---		5.4490	5.0	ug/L	109	70 - 130	---	---	1.0	02/17/2021 07:52	02/17/2021 17:51	4835771
LFB	Fipronil	S150	0.5	---		5.9810	5.0	ug/L	120	65 - 141	---	---	1.0	02/17/2021 07:52	02/17/2021 17:51	4835771
LMB	IS-Acenaphthene-d10	S150	N/A	---		819173	876286	ug/L	93	50 - 150	---	---	0.99	02/17/2021 07:52	02/17/2021 19:23	4835770
LMB	IS-Chrysene-d12	S150	N/A	---		492657	626792	ug/L	79	50 - 150	---	---	0.99	02/17/2021 07:52	02/17/2021 19:23	4835770
LMB	IS-Phenanthrene-d10	S150	N/A	---		619302	744704	ug/L	83	50 - 150	---	---	0.99	02/17/2021 07:52	02/17/2021 19:23	4835770
LMB	SS-Triphenylphosphate	S150	N/A	---		5.8260	5.0	ug/L	118	70 - 130	---	---	0.99	02/17/2021 07:52	02/17/2021 19:23	4835770
LMB	Fipronil	S150	0.5	---	<	0.5		ug/L	---	---	---	---	0.99	02/17/2021 07:52	02/17/2021 19:23	4835770
FS	IS-Acenaphthene-d10	S150	N/A	2102424-001D/SW-1		882556	876286	ug/L	101	50 - 150	---	---	0.96	02/17/2021 07:52	02/17/2021 19:54	4834682
FS	IS-Chrysene-d12	S150	N/A	2102424-001D/SW-1		592512	626792	ug/L	95	50 - 150	---	---	0.96	02/17/2021 07:52	02/17/2021 19:54	4834682
FS	IS-Phenanthrene-d10	S150	N/A	2102424-001D/SW-1		719714	744704	ug/L	97	50 - 150	---	---	0.96	02/17/2021 07:52	02/17/2021 19:54	4834682
FS	SS-Triphenylphosphate	S150	N/A	2102424-001D/SW-1		5.2090	5.0	ug/L	109	70 - 130	---	---	0.96	02/17/2021 07:52	02/17/2021 19:54	4834682
FS	Fipronil	S150	0.5	2102424-001D/SW-1	<	0.5		ug/L	---	---	---	---	0.96	02/17/2021 07:52	02/17/2021 19:54	4834682
FS	IS-Acenaphthene-d10	S150	N/A	2102424-002D/SW-3		885793	876286	ug/L	101	50 - 150	---	---	0.98	02/17/2021 07:52	02/17/2021 20:25	4834683
FS	IS-Chrysene-d12	S150	N/A	2102424-002D/SW-3		565862	626792	ug/L	90	50 - 150	---	---	0.98	02/17/2021 07:52	02/17/2021 20:25	4834683
FS	IS-Phenanthrene-d10	S150	N/A	2102424-002D/SW-3		694136	744704	ug/L	93	50 - 150	---	---	0.98	02/17/2021 07:52	02/17/2021 20:25	4834683
FS	SS-Triphenylphosphate	S150	N/A	2102424-002D/SW-3		5.6680	5.0	ug/L	116	70 - 130	---	---	0.98	02/17/2021 07:52	02/17/2021 20:25	4834683
FS	Fipronil	S150	0.5	2102424-002D/SW-3	<	0.5		ug/L	---	---	---	---	0.98	02/17/2021 07:52	02/17/2021 20:25	4834683
FS	IS-Acenaphthene-d10	S150	N/A	2102424-003D/SW-2		851399	876286	ug/L	97	50 - 150	---	---	0.95	02/17/2021 07:52	02/17/2021 20:55	4834684
FS	IS-Chrysene-d12	S150	N/A	2102424-003D/SW-2		584721	626792	ug/L	93	50 - 150	---	---	0.95	02/17/2021 07:52	02/17/2021 20:55	4834684
FS	IS-Phenanthrene-d10	S150	N/A	2102424-003D/SW-2		702264	744704	ug/L	94	50 - 150	---	---	0.95	02/17/2021 07:52	02/17/2021 20:55	4834684
FS	SS-Triphenylphosphate	S150	N/A	2102424-003D/SW-2		4.8990	5.0	ug/L	103	70 - 130	---	---	0.95	02/17/2021 07:52	02/17/2021 20:55	4834684
FS	Fipronil	S150	0.5	2102424-003D/SW-2	<	0.5		ug/L	---	---	---	---	0.95	02/17/2021 07:52	02/17/2021 20:55	4834684

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCC	Continuing Calibration Check		
FS	Field Sample		
LFB	Laboratory Fortified Blank		
LMB	Laboratory Method Blank		

END OF REPORT