Clark Sand Pits / Jackson Lakes

Surface Water Quality Monitoring

Summary Report for Monitoring Event #3

Samples Collected January 19 & 20, 2016

Prepared by: Escambia County

Natural Resources Management Department

Water Quality & Land Management Division

February 18, 2016

Executive Summary

The Escambia County Board of County Commissioners directed staff to research the county-owned property, commonly known as Clark Sand Pits / Jackson Lakes, to identify potential uses and/or development of the 54-acre parcel for the benefit of the public. The Board further directed the Natural Resources Management Department to determine land and water environmental conditions, including potential for existing surface water contamination.

This report summarizes the third surface water monitoring event conducted by Escambia County Natural Resources Management Department. Event 1 was conducted October 8-9, 2015; event 2 was conducted November 3-4, 2015. Data from events 1 and 2 were previously summarized as separate reports.

Two sampling locations were selected in each of the three lakes. A location map identifying lakes and sample stations is provided as Figure 1 of this report. Samples were collected on January 19-20, 2016 at three distinct depths (i.e. surface, mid-depth, bottom) at each location for a total of 18 samples. Samples were sent to an independent third party NELAP certified laboratory (ALS Environmental, Jacksonville, FL) for analysis. All samples collected were analyzed for 126 "Priority Pollutants" found in Appendix A to 40 CFR, Part 423. The list of Priority Pollutants is provided as Figure 2 of this report. Samples were also analyzed for fecal coliform bacteria. In-Situ parameters (i.e. temperature, pH, specific conductance, salinity, turbidity, etc.) were collected at each station. Field data is summarized in this report in Table 1. Field data sheets are included as Appendix II.

The southwest lake was determined to be "predominantly marine" by measuring the specific conductance within the bottom half of the water column (Fla. Admin. Code R. 62-302.200). Both other lakes were determined to be "predominantly fresh." Surface water quality standards are presented accordingly.

The majority (>85%) of the 126 Priority Pollutants were not present in sufficient concentration to register as a detection using accepted analytical methods. Compounds analyzed, but not detected, are flagged in the following tables with a "U" qualifier. A summary of detections is provided in Tables 2-4. Most of the detections were low levels between the laboratory method detection limit (MDL) and practical quantitation limit (PQL). These values are too close to the MDL for the laboratory to provide actual results. Therefore, low level detections flagged with an "I" qualifier should be considered estimated values. A "V" qualifier is used to indicate when the analyte of interest was detected in both the sample and associated laboratory method blank. The complete ALS laboratory report is provided as Appendix I.

The concentration of detected analytes was evaluated against Florida Surface Water Criteria for predominantly fresh/marine Class III Waters (Fla. Admin. Code R. 62-302), and Florida Contaminant Cleanup Target Levels for freshwater systems (Fla. Admin. Code R. 62-777). The only exceedance detected in the northeast lake was dieldrin. Dieldrin was detected at all three depths on the west end of the northeast lake at concentrations between the MDL and PQL. Fecal coliform bacteria exceeded state surface water criteria on the eastern end of the southeastern lake in the bottom sample. Exceedances detected in the southwest lake were limited to dieldrin and endosulfan II. Concentrations of dieldrin and endosulfan II in the southwest lake were between the MDL and PQL.

Clark Sand Pits / Jackson Lakes
Surface Water Monitoring

Figure I - Sampling Locations

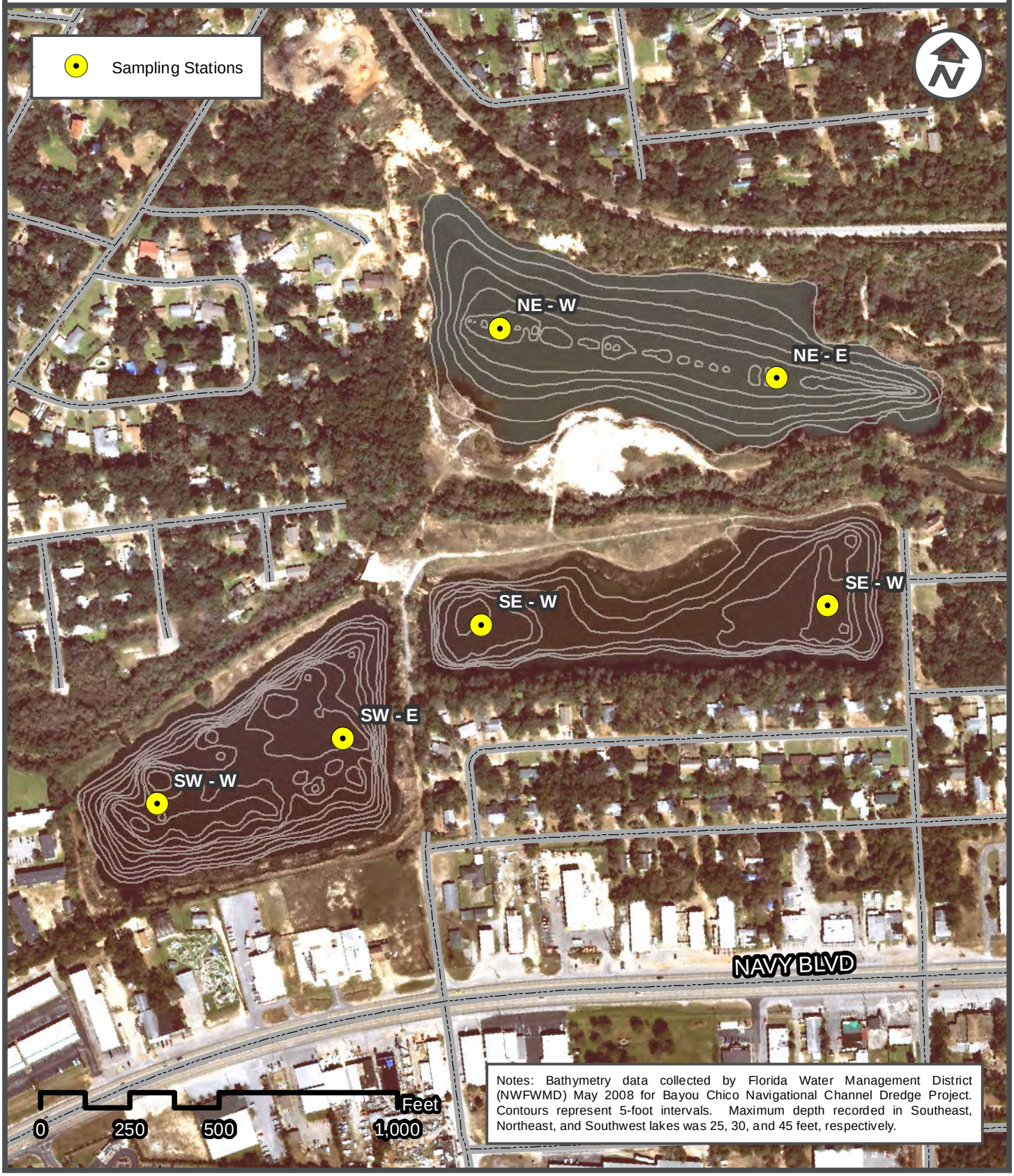

Figure II

Appendix A to 40 CFR, Part 423--126 Priority Pollutants

001 Acenaphthene
002 Acrolein
003 Acrylonitrile
004 Benzene
005 Benzidine
006 Carbon tetrachloride (tetrachloromethane)
007 Chlorobenzene
008 1,2,4-trichlorobenzene
009 Hexachlorobenzene
010 1,2-dichloroethane
011 1,1,1-trichloreothane
012 Hexachloroethane
013 1,1-dichloroethane
014 1,1,2-trichloroethane
015 1,1,2,2-tetrachloroethane
016 Chloroethane
018 Bis(2-chloroethyl) ether
019 2-chloroethyl vinyl ether (mixed)
020 2-chloronaphthalene
021 2,4, 6-trichlorophenol
022 Parachlorometa cresol
023 Chloroform (trichloromethane)
024 2-chlorophenol
025 1,2-dichlorobenzene
026 1,3-dichlorobenzene
027 1,4-dichlorobenzene
028 3,3-dichlorobenzidine
029 1,1-dichloroethylene
030 1,2-trans-dichloroethylene
031 2,4-dichlorophenol
032 1,2-dichloropropane
033 1,2-dichloropropylene (1,3-dichloropropene)
034 2,4-dimethylphenol
035 2,4-dinitrotoluene
036 2,6-dinitrotoluene
037 1,2-diphenylhydrazine
038 Ethylbenzene
039 Fluoranthene
040 4-chlorophenyl phenyl ether
041 4-bromophenyl phenyl ether
042 Bis(2-chloroisopropyl) ether
043 Bis(2-chloroethoxy) methane
044 Methylene chloride (dichloromethane)
045 Methyl chloride (dichloromethane)
046 Methyl bromide (bromomethane)
047 Bromoform (tribromomethane)
048 Dichlorobromomethane
051 Chlorodibromomethane
052 Hexachlorobutadiene
053 Hexachloromyclopentadiene
054 Isophorone
055 Naphthalene
056 Nitrobenzene
057 2-nitrophenol
058 4-nitrophenol
059 2,4-dinitrophenol
060 4,6-dinitro-o-cresol
061 N-nitrosodimethylamine
062 N-nitrosodiphenylamine
063 N-nitrosodi-n-propylamin
064 Pentachlorophenol
065 Phenol
066 Bis(2-ethylhexyl) phthalate
067 Butyl benzyl phthalate
068 Di-N-Butyl Phthalate
069 Di-n-octyl phthalate
070 Diethyl Phthalate
071 Dimethyl phthalate
072 1,2-benzanthracene (benzo(a) anthracene
073 Benzo(a)pyrene (3,4-benzo-pyrene)
074 3,4-Benzofluoranthene (benzo(b) fluoranthene)
075 11,12-benzofluoranthene (benzo(b) fluoranthene)
076 Chrysene
077 Acenaphthylene
078 Anthracene
079 1,12-benzoperylene (benzo(ghi) perylene)
080 Fluorene
081 Phenanthrene
082 1,2,5,6-dibenzanthracene (dibenzo(,h) anthracene)
083 Indeno (,1,2,3-cd) pyrene (2,3-o-pheynylene pyrene)
084 Pyrene
085 Tetrachloroethylene
086 Toluene
087 Trichloroethylene
088 Vinyl chloride (chloroethylene)
089 Aldrin
090 Dieldrin
091 Chlordane (technical mixture and metabolites)
092 4,4-DDT
093 4,4-DDE (p,p-DDX)
094 4,4-DDD (p,p-TDE)
095 Alpha-endosulfan
096 Beta-endosulfan
097 Endosulfan sulfate
098 Endrin
099 Endrin aldehyde
100 Heptachlor
101 Heptachlor epoxide (BHC-hexachlorocyclohexane)
102 Alpha-BHC
103 Beta-BHC
104 Gamma-BHC (lindane)
105 Delta-BHC (PCB-polychlorinated biphenyls)
106 PCB-1242 (Arochlor 1242)
107 PCB-1254 (Arochlor 1254)
108 PCB-1221 (Arochlor 1221)
109 PCB-1232 (Arochlor 1232)
110 PCB-1248 (Arochlor 1248)
111 PCB-1260 (Arochlor 1260)
112 PCB-1016 (Arochlor 1016)
113 Toxaphene
114 Antimony
115 Arsenic
116 Asbestos
117 Beryllium
118 Cadmium
119 Chromium
120 Copper
121 Cyanide, Total
122 Lead
123 Mercury
124 Nickel
125 Selenium
126 Silver
127 Thallium
126 Silver
128 Zinc
129 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)

TABLE 1

SUMMARY OF SURFACE WATER FIELD PARAMETERS

JACKSON LAKES SURFACE WATER MONITORING PROJECT (EVENT III)

STATION	DATE	TIME	Total Depth (ft)	Sample Depth (ft)	TEMP (C°)	Dissolved Oxygen (mg/L)	DO Saturation (%)	pH (SU)	Conductivity (µS/cm)	Salinity (PSU)	Turbidity (NTU)	Secchi Depth (ft)
NE-W (S)	1/20/2016	1110	25	1.08	14.84	7.99	78.2	6.77	205.9	0.1	5.53	4.6
NE-W (M)	1/20/2016	1125		10.01	14.62	7.99	77.8	6.63	208.0	0.1	5.87	
NE-W (B)	1/20/2016	1140		22.18	14.57	7.98	77.7	6.61	210.0	0.1	5.80	
NE-E (S)	1/20/2016	1000	31	1.01	14.66	7.97	77.5	7.14	210.5	0.1	6.12	4.3
NE-E (M)	1/20/2016	1015		10.07	14.59	7.88	76.6	6.79	211.6	0.1	6.34	
NE-E (B)	1/20/2016	1030		22.23	14.57	7.88	76.6	6.69	211.8	0.1	6.02	
SE-W (S)	1/19/2016	1515	28	1.13	14.75	8.04	78.6	7.02	1,951.4	1.0	1.97	4.9
SE-W (M)	1/19/2016	1530		9.97	13.86	7.71	73.9	6.99	1,965.4	1.0	2.38	
SE-W (B)	1/19/2016	1545		22.31	13.74	7.42	71.0	6.95	1,972.3	1.0	2.42	
SE-E (S)	1/19/2016	1405	24	1.08	14.98	8.06	79.2	6.92	1,958.5	1.0	2.17	5.6
SE-E (M)	1/19/2016	1420		9.96	13.93	8.10	77.7	6.99	1,970.2	1.0	2.36	
SE-E (B)	1/19/2016	1435		22.20	13.71	7.44	71.1	6.98	1,970.5	1.0	2.55	
SW-W (S)	1/19/2016	1000	36	0.91	13.40	10.07	95.0	6.59	1,217.2	0.6	2.15	NM
SW-W (M)	1/19/2016	1015		10.13	16.81	5.79	59.3	6.52	3,703.5	2.0	1.52	
SW-W (B)	1/19/2016	1030		22.66	23.56	0.06	0.8	6.38	11,251.4	6.5	2.11	
SW-E (S)	1/19/2016	1125	36	1.24	13.57	10.34	98.0	7.06	1,297.2	0.7	2.17	NM
SW-E (M)	1/19/2016	1140		10.07	16.91	6.95	71.2	6.74	3,751.8	2.0	1.63	
SW-E (B)	1/19/2016	1155		22.70	23.24	0.07	0.8	6.38	11,268.9	6.5	2.22	

Notes:
(S) Surface Sample
(M) Mid-Depth Sample
(B) Bottom Sample
°C = degrees celsius
DO = dissolved oxygen
ft = feet
µS/cm = microSiemens per centimeter
mg/L = milligram per Liter
NM = not measured
PSU = practical salinity units
SU = standard units

TABLE 2

SUMMARY OF DETECTED CONSTITUENTS IN SURFACE WATER

JACKSON LAKES SURFACE WATER MONITORING PROJECT (EVENT III)

NORTHEAST LAKE

PARAMETER	UNITS	CLASS III STANDARD [f]	Trip Blank	NE-W (S) 1/20/2016	NE-W (M) 1/20/2016	NE-W (B) 1/20/2016	NE-E (S) 1/20/2016	NE-E (M) 1/20/2016	NE-E (B) 1/20/2016
Organic Constituents									
Dieldrin	µg/L	0.0019[β]	NA	**0.0136 I**	**0.0124 I**	**0.0138 I**	< 0.0113 U	< 0.0113 U	< 0.0113 U
Phenolics, Total Recoverable	mg/L	*	NA	0.03 IV	0.07 IV	0.06 IV	0.05 IV	0.05 IV	0.04 IV
Tetrachloroethene (PCE)	µg/L	8.85[αα]	< 0.220 U	0.660 I	0.580 I	0.780 I	0.540 I	0.490 I	0.570 I
Inorganic Constituents									
Arsenic, Total	µg/L	50	NA	0.5 I	< 0.5 U	< 0.5 U	0.7 I	1.1	< 0.5 U
Barium, Total	µg/L	1,000[χ]	NA	52.0	49.5	51.5	53.0	52.7	51.0
Chromium, Total	µg/L	h	NA	0.3 I	0.4 I	0.3 I	0.5 I	0.5 I	0.3 I
Copper, Total	µg/L	e	NA	0.4 I	0.3 I	0.4 I	0.5 I	0.4 I	0.4 I
Lead, Total	µg/L	g	NA	0.26 I	0.26 I	0.26 I	0.30 I	0.29 I	0.30 I
Zinc, Total	µg/L	i	NA	5.8	5.6	6.3	6.6	6.1	7.2
Microbiological Constituents									
Coliform, Fecal	CFU/100 mL	800[†]	NA	27	12	8	24	22	18

Notes:
(S) Surface Sample
(M) Mid-Depth Sample
(B) Bottom Sample
BOLD = Exceeds regulatory limit
ug/L = micrograms per Liter
CFU / 100 mL = colony forming units per 100 milliliters
αα = Criteria based on Annual Average
β = Criteria based on Maximum Value of 0.0019 ug/L and Annual Average of 0.00014 ug/L
χ = Standard established in Chapter 62-302.530 Florida Administrative Code (Fla. Admin. Code) for Class III or beter
γ = Results based on U.S. EPA Method 625 for Semivolatile Organic Compounds
U = Indicates that the compound was analyzed for but not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates the analyte was detected in both the sample and the associated method blank.
e = Surface water criteria for Copper based on formula: e(0.8545[lnH]-1.702)
i = Surface water criteria for Zinc based on formula: e^(0.8473[lnH]+0.884)
g = Surface water criteria for Lead based on formula: e^(1.273[lnH]+0.884)
h = Surface water criteria for Chromium based on formula: e^(0.819[lnH]+0.6848)
j = Surface water criteria for Nickel based on formula: e^(0.846[lnH]+0.0584)
f = "Predominantly fresh waters" shall mean surface waters in which the chloride concentration is less than or 1,500 milligrams per liter or specific conductance is less than 4,580 µmhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column. (Fla. Admin. Code R. 62-302.200)
m = "Predominantly marine waters" shall mean surface waters in which the chloride concentration is greater than or equal to 1,500 milligrams per liter or specific conductance is greater than or equal to than 4,580 µmhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column. (Fla. Admin. Code R. 62-302.200)
* = No Standard established in Chapter 62-302.530 or 62-777 Florida Administrative Code (Fla. Admin. Code)
† = Number per 100 ml (Most Probable Number (MPN) or Membrane Filter (MF)) counts shall not exceed a monthly average of 200, nor exceed 400 in 10% of the samples, nor exceed 800 on any one day. Monthly averages shall be expressed as geometric means based on a minimum of 10 samples taken over a 30 day period.
NA = Sample not analyzed for corresponding analyte

TABLE 3

SUMMARY OF DETECTED CONSTITUENTS IN SURFACE WATER

JACKSON LAKES SURFACE WATER MONITORING PROJECT (EVENT III)

SOUTHEAST LAKE

PARAMETER	UNITS	CLASS III STANDARD [f]	Trip Blank	SE-W (S)	SE-W (M)	SE-W (B)	SE-E (S)	SE-E (M)	SE-E (B)
				1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016
Organic Constituents									
Endosulfan II	µg/L	0.056	NA	< 0.0103 U	< 0.0103 U	< 0.0103 U	0.0128 I	< 0.0103 U	< 0.0103 U
Phenolics, Total Recoverable	mg/L	*	NA	0.04 IV	0.04 IV	0.03 IV	0.04 IV	0.04 IV	0.05 IV
Inorganic Constituents									
Arsenic, Total	µg/L	50	NA	1.5 I	1.7 I	1.6 I	< 0.9 U	< 0.9 U	0.9 I
Barium, Total	µg/L	1,000[χ]	NA	33.8	41.5	41.5	34.0	36.5	37.8
Chromium, Total	µg/L	h	NA	0.8 I	0.8 I	0.9 I	0.6 I	0.8 I	0.7 I
Copper, Total	µg/L	e	NA	0.6 I	0.6 I	0.6 I	0.6 I	0.6 I	0.6 I
Cyanide, Total	µg/L	5.2	NA	< 3 U	< 3 U	< 3 U	< 3 U	< 3 U	3 I
Zinc, Total	µg/L	i	NA	6 I	7 I	6 I	6 I	8 I	7 I
Microbiological Constituents									
Coliform, Fecal	CFU/100 mL	800[†]	NA	90	72	37	300	67	**1,140**

Notes:
(S) Surface Sample
(M) Mid-Depth Sample
(B) Bottom Sample
BOLD = Exceeds regulatory limit
ug/L = micrograms per Liter
CFU / 100 mL = colony forming units per 100 milliliters
αα = Criteria based on Annual Average
β = Criteria based on Maximum Value of 0.0019 ug/L and Annual Average of 0.00014 ug/L
χ = Standard established in Chapter 62-302.530 Florida Administrative Code (Fla. Admin. Code) for Class III or beter
γ = Results based on U.S. EPA Method 625 for Semivolatile Organic Compounds
U = Indicates that the compound was analyzed for but not detected.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V = Indicates the analyte was detected in both the sample and the associated method blank.
e = Surface water criteria for Copper based on formula: e(0.8545[lnH]-1.702)
i = Surface water criteria for Zinc based on formula: e^(0.8473[lnH]+0.884)
g = Surface water criteria for Lead based on formula: e^(1.273[lnH]+0.884)
h = Surface water criteria for Chromium based on formula: e^(0.819[lnH]+0.6848)
j = Surface water criteria for Nickel based on formula: e^(0.846[lnH]+0.0584)
f = "Predominantly fresh waters" shall mean surface waters in which the chloride concentration is less than or 1,500 milligrams per liter or specific conductance is less than 4,580 µmhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column. (Fla. Admin. Code R. 62-302.200)
m = "Predominantly marine waters" shall mean surface waters in which the chloride concentration is greater than or equal to 1,500 milligrams per liter or specific conductance is greater than or equal to than 4,580 µmhos/cm. Measurements for making this determination shall be taken within the bottom half of the water column. (Fla. Admin. Code R. 62-302.200)
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NA = Sample not analyzed for corresponding analyte

TABLE 4

SUMMARY OF DETECTED CONSTITUENTS IN SURFACE WATER

JACKSON LAKES SURFACE WATER MONITORING PROJECT (EVENT III)

SOUTHWEST LAKE

PARAMETER	UNITS	CLASS III STANDARD [m]	Trip Blank	SW-W (S)	SW-W (M)	SW-W (B)	SW-E (S)	SW-E (M)	SW-E (B)
				1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016
Organic Constituents									
Dieldrin	µg/L	0.0019[β]	NA	**0.0121 I**	< 0.0113 U	< 0.0113 U	**0.0118 I**	**0.0117 I**	< 0.0113 U
Endosulfan II	µg/L	0.0087	NA	< 0.0103 U	**0.0109 I**	< 0.0103 U	**0.0126 I**	**0.0113 I**	**0.0104 I**
Phenolics, Total Recoverable	mg/L	*	NA	0.04 IV	0.05 IV	0.19 IV	0.03 IV	0.04 IV	0.04 IV
Tetrachloroethene (PCE)	µg/L	8.85[αα]	< 0.220 U	< 0.220 U	0.270 I	0.370 I	< 0.220 U	0.270 I	0.250 I
Inorganic Constituents									
Antimony, Total	µg/L	4,300	NA	0.3 I	2.4 I	< 2 U	0.4 I	1.0 I	< 2 U
Arsenic, Total	µg/L	50	NA	1.3	2.9 I	6 I	0.8 I	< 2.1 U	8 I
Barium, Total	µg/L	1,000[χ]	NA	23.4	26	51	23.0	26	53
Chromium, Total	µg/L	50	NA	0.7 I	1.2 I	4 I	0.5 I	< 0.9 U	3 I
Copper, Total	µg/L	2.9	NA	1.5	< 1.2 U	< 3 U	1.4	< 1.2 U	< 3 U
Lead, Total	µg/L	8.5	NA	0.30 I	< 0.6 U	< 1.2 U	0.26 I	< 0.6 U	< 1.2 U
Nickel, Total	µg/L	8.3	NA	0.5 I	< 3 U	< 5 U	0.5 I	< 3 U	< 5 U
Selenium, Total	µg/L	71	NA	1.5 I	< 6 U	< 11 U	< 1.1 U	< 6 U	< 11 U
Zinc, Total	µg/L	86	NA	13.4	13 I	< 16 U	11.8	23 I	< 16 U
Microbiological Constituents									
Coliform, Fecal	CFU/100 mL	800[†]	NA	34	19	13	30	25	5

Notes:
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(M) Mid-Depth Sample
(B) Bottom Sample
BOLD = Exceeds regulatory limit
ug/L = micrograms per Liter
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h = Surface water criteria for Chromium based on formula: e^(0.819[lnH]+0.6848)
j = Surface water criteria for Nickel based on formula: e^(0.846[lnH]+0.0584)
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Appendix I

ALS Environmental

Laboratory Results

January 31, 2016 Service Request No:J1600458

Christy Draper
Escambia County
3363 West Park Place
Pensacola, FL 32505

Laboratory Results for: Jackson Lakes

Dear Christy,

Enclosed are the results of the sample(s) submitted to our laboratory January 21, 2016
For your reference, these analyses have been assigned our service request number **J1600458.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

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dba ALS Environmental

9143 Philips Highway, Suite 200, Jacksonville, FL 32256 | 904-739-2277 | www.alsglobal.com

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request:J1600458
Date Received:01/21/16 - 01/22/16

CASE NARRATIVE

ALS Environmental

Client: Escambia County Service Request No.: J1600458

Project: Jackson Lakes Date Received: 1/21 -1/22/2016

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Nineteen water samples were received for analysis at ALS Environmental on 1/21 -1/22/2016. The following discrepancies were noted upon initial sample inspection. Trip Blank not listed on the COC. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses: Method 624: Spike recovery in the LCS and LCSD was outside method control limits high for Bromomethane and Chloromethane. Batches affected are JQ1600628-03/04 and JQ1600608-03/04. There was not detections in the associated field samples. No affect on data quality.

Semi-Volatile Organic Analyses:

Method 608 Pesticides: The upper control criterion was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analytes in question above the Method Reporting Limit (MRL). Since the apparent problem equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 625: The upper control criterion was exceeded for the following analytes in the Second Source Verification (SSV): multiple analytes. The field samples analyzed in this sequence did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

Metals Analyses:

The reporting limit is elevated for analyte(s) analyzed by ICP/MS in J1600458-(2,3,5-12). These sample(s) contained high concentrations of dissolved solids that preclude their analysis without prior dilution via this technique.

Approved by _____ Date 1/31/2016

General Chemistry Analyses:

Method4 20.4: Sample(s) J1600458-003 required dilution due to the matrix of the sample. The reporting limits are adjusted to reflect the dilution

Subcontracted Analytical Parameters: see attached report for Coliform from Future labs

Approved by _____ Date 1/31/2016

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2016
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-15-7	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2016

Data Qualifiers

Florida-DEP

!	Data deviates from historically established concentration ranges
*	Not reported due to interference
?	Data is rejected and should not be used
A	Value reported is the arithmetic mean of two or more determininations
B	Results based upon colony counts outside the acceptable range.
D	Measurement was made in the field.
E	Extra samples were taken at composite stations
H	Value based on field kit determination; results may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory PQL.
J	Estimated value.
K	Off scale low. The value is less than the lowest calibration standard.
L	Off scale high. The analyte is above the acceptable level of quantitation.
M	The MDL/MRL has been elevated because the analyte could not be accurately quantified.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed
Q	Sample held beyond the acceptable holding time.
R	Significant rain in the past 48 hours (typically in excess of 0.5 inches)
T	Estimated value, less than the MDL
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
X	Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
Y	The laboratory analysis was from an unpreserved or improperly preserved sample.
Z	Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Escambia County **Service Request:**J1600458
Project: Jackson Lakes

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J1600458-001	SW-W S	1/19/2016	1000
J1600458-002	SW-W M	1/19/2016	1015
J1600458-003	SW-W B	1/19/2016	1030
J1600458-004	SW-E S	1/19/2016	1125
J1600458-005	SW-E M	1/19/2016	1140
J1600458-006	SW-E B	1/19/2016	1155
J1600458-007	SE-E S	1/19/2016	1405
J1600458-008	SE-E M	1/19/2016	1420
J1600458-009	SE-E B	1/19/2016	1435
J1600458-010	SE-W S	1/19/2016	1515
J1600458-011	SE-E M	1/19/2016	1530
J1600458-012	SE-W B	1/19/2016	1545
J1600458-013	NE-E S	1/20/2016	1000
J1600458-014	NE-E M	1/20/2016	1015
J1600458-015	NE-E B	1/20/2016	1030
J1600458-016	NE-W S	1/20/2016	1110
J1600458-017	NE-W M	1/20/2016	1125
J1600458-018	NE-W B	1/20/2016	1140
J1600458-019	Trip Blank	1/20/2016	0000

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W S	**Units:**	ug/L
Lab Code:	J1600458-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 05:15	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 05:15	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 05:15	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 05:15	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 05:15	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 05:15	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 05:15	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 05:15	
Benzene	0.210 U	1.00	0.210	1	01/23/16 05:15	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 05:15	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 05:15	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 05:15	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 05:15	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 05:15	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 05:15	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 05:15	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 05:15	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 05:15	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 05:15	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 05:15	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 05:15	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 05:15	
Toluene	0.190 U	1.00	0.190	1	01/23/16 05:15	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 05:15	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 05:15	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 05:15	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 05:15	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 05:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	78 - 129	01/23/16 05:15	
Dibromofluoromethane	99	80 - 114	01/23/16 05:15	
Toluene-d8	101	87 - 118	01/23/16 05:15	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W S	**Units:**	ug/L
Lab Code:	J1600458-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.30 U	5.00	1.30	1	01/27/16 16:17	1/26/16	
2-Chlorophenol	1.20 U	5.00	1.20	1	01/27/16 16:17	1/26/16	
4-Chloro-3-methylphenol	1.80 U	5.00	1.80	1	01/27/16 16:17	1/26/16	
Acenaphthene	4.20 U	5.00	4.20	1	01/27/16 16:17	1/26/16	
Acenaphthylene	0.990 U	5.00	0.990	1	01/27/16 16:17	1/26/16	
Anthracene	1.60 U	5.00	1.60	1	01/27/16 16:17	1/26/16	
Benzo(a)pyrene	1.20 U	5.00	1.20	1	01/27/16 16:17	1/26/16	
Benzo(b)fluoranthene	1.00 U	5.00	1.00	1	01/27/16 16:17	1/26/16	
Benzo(g,h,i)perylene	1.40 U	5.00	1.40	1	01/27/16 16:17	1/26/16	
Benzo(k)fluoranthene	1.80 U	5.00	1.80	1	01/27/16 16:17	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.50 U	5.00	1.50	1	01/27/16 16:17	1/26/16	
Butyl Benzyl Phthalate	0.860 U	10.0	0.860	1	01/27/16 16:17	1/26/16	
Chrysene	1.20 U	5.00	1.20	1	01/27/16 16:17	1/26/16	
Dibenz(a,h)anthracene	1.50 U	5.00	1.50	1	01/27/16 16:17	1/26/16	
Diethyl Phthalate	1.70 U	5.00	1.70	1	01/27/16 16:17	1/26/16	
Di-n-butyl Phthalate	2.20 U	5.00	2.20	1	01/27/16 16:17	1/26/16	
Fluoranthene	1.40 U	5.00	1.40	1	01/27/16 16:17	1/26/16	
Fluorene	0.840 U	5.00	0.840	1	01/27/16 16:17	1/26/16	
Indeno(1,2,3-cd)pyrene	1.70 U	5.00	1.70	1	01/27/16 16:17	1/26/16	
Isophorone	1.80 U	5.00	1.80	1	01/27/16 16:17	1/26/16	
Naphthalene	0.530 U	5.00	0.530	1	01/27/16 16:17	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.10 U	5.00	1.10	1	01/27/16 16:17	1/26/16	
Phenanthrene	1.40 U	5.00	1.40	1	01/27/16 16:17	1/26/16	
Phenol	0.590 U	5.00	0.590	1	01/27/16 16:17	1/26/16	
Pyrene	0.740 U	5.00	0.740	1	01/27/16 16:17	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	49	33 - 133	01/27/16 16:17	
2-Fluorobiphenyl	40	22 - 105	01/27/16 16:17	
2-Fluorophenol	26	10 - 69	01/27/16 16:17	
Nitrobenzene-d5	40	10 - 123	01/27/16 16:17	
Phenol-d6	22	10 - 59	01/27/16 16:17	
p-Terphenyl-d14	86	28 - 120	01/27/16 16:17	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W S	**Units:**	ug/L
Lab Code:	J1600458-001	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/25/16 19:59	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/25/16 19:59	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/25/16 19:59	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/25/16 19:59	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/25/16 19:59	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/25/16 19:59	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/25/16 19:59	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/25/16 19:59	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/25/16 19:59	1/25/16	
Dieldrin	**0.0121**	**I**	0.0204	0.0113	1	01/25/16 19:59	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/25/16 19:59	1/25/16	
Endosulfan II	0.0103	U	0.0204	0.0103	1	01/25/16 19:59	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/25/16 19:59	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/25/16 19:59	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/25/16 19:59	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/25/16 19:59	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/25/16 19:59	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/25/16 19:59	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/25/16 19:59	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/25/16 19:59	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/25/16 19:59	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 12:24	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 12:24	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 12:24	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 12:24	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 12:24	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 12:24	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 12:24	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 160	01/25/16 19:59	
Tetrachloro-m-xylene	73	22 - 126	01/25/16 19:59	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W S	**Basis:**	NA
Lab Code:	J1600458-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	**0.3 I**	ug/L	1.0	0.2	1	01/29/16 15:01	01/26/16	
Arsenic, Total	200.8	**1.3**	ug/L	1.0	0.5	1	01/29/16 15:01	01/26/16	
Barium, Total	200.8	**23.4**	ug/L	2.0	0.5	1	01/29/16 15:01	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 15:01	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 15:01	01/26/16	
Chromium, Total	200.8	**0.7 I**	ug/L	1.0	0.2	1	01/29/16 15:01	01/26/16	
Copper, Total	200.8	**1.5**	ug/L	1.0	0.3	1	01/29/16 15:01	01/26/16	
Lead, Total	200.8	**0.30 I**	ug/L	0.50	0.12	1	01/29/16 15:01	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 16:46	01/27/16	
Nickel, Total	200.8	**0.5 I**	ug/L	2.0	0.5	1	01/29/16 15:01	01/26/16	
Selenium, Total	200.8	**1.5 I**	ug/L	2.0	1.1	1	01/29/16 15:01	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 15:01	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 15:01	01/26/16	
Zinc, Total	200.8	**13.4**	ug/L	5.0	1.6	1	01/29/16 15:01	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W S	**Basis:**	NA
Lab Code:	J1600458-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/26/16 16:07	01/25/16	
Phenolics, Total Recoverable	420.4	**0.04 IV**	mg/L	0.10	0.01	1	01/29/16 16:17	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W M	**Units:**	ug/L
Lab Code:	J1600458-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 05:39	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 05:39	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 05:39	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 05:39	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 05:39	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 05:39	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 05:39	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 05:39	
Benzene	0.210 U	1.00	0.210	1	01/23/16 05:39	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 05:39	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 05:39	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 05:39	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 05:39	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 05:39	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 05:39	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 05:39	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 05:39	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 05:39	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 05:39	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 05:39	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 05:39	
Tetrachloroethene (PCE)	**0.270 I**	1.00	0.220	1	01/23/16 05:39	
Toluene	0.190 U	1.00	0.190	1	01/23/16 05:39	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 05:39	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 05:39	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 05:39	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 05:39	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 05:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	78 - 129	01/23/16 05:39	
Dibromofluoromethane	99	80 - 114	01/23/16 05:39	
Toluene-d8	100	87 - 118	01/23/16 05:39	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W M	**Units:**	ug/L
Lab Code:	J1600458-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 16:42	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 16:42	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 16:42	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 16:42	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 16:42	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 16:42	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 16:42	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 16:42	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 16:42	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 16:42	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 16:42	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 16:42	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 16:42	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 16:42	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 16:42	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 16:42	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 16:42	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 16:42	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 16:42	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 16:42	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 16:42	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 16:42	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 16:42	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 16:42	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 16:42	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	42	33 - 133	01/27/16 16:42	
2-Fluorobiphenyl	52	22 - 105	01/27/16 16:42	
2-Fluorophenol	32	10 - 69	01/27/16 16:42	
Nitrobenzene-d5	53	10 - 123	01/27/16 16:42	
Phenol-d6	29	10 - 59	01/27/16 16:42	
p-Terphenyl-d14	77	28 - 120	01/27/16 16:42	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W M	**Units:**	ug/L
Lab Code:	J1600458-002	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 20:16	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 20:16	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 20:16	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 20:16	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 20:16	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 20:16	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 20:16	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 20:16	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 20:16	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 20:16	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 20:16	1/25/16	
Endosulfan II	**0.0109 I**	0.0204	0.0103	1	01/25/16 20:16	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 20:16	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 20:16	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 20:16	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 20:16	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 20:16	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 20:16	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 20:16	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 20:16	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 20:16	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 12:39	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 12:39	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 12:39	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 12:39	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 12:39	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 12:39	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 12:39	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	57	10 - 160	01/25/16 20:16	
Tetrachloro-m-xylene	69	22 - 126	01/25/16 20:16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W M	**Basis:**	NA
Lab Code:	J1600458-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	**2.4 I**	ug/L	5.0	0.8	5	01/29/16 15:28	01/26/16	
Arsenic, Total	200.8	**2.9 I**	ug/L	5.0	2.1	5	01/29/16 15:28	01/26/16	
Barium, Total	200.8	**26**	ug/L	10	3	5	01/29/16 15:28	01/26/16	
Beryllium, Total	200.8	2.5 U	ug/L	2.5	0.2	5	01/29/16 15:28	01/26/16	
Cadmium, Total	200.8	0.5 U	ug/L	2.0	0.5	5	01/29/16 15:28	01/26/16	
Chromium, Total	200.8	**1.2 I**	ug/L	5.0	0.9	5	01/29/16 15:28	01/26/16	
Copper, Total	200.8	1.2 U	ug/L	5.0	1.2	5	01/29/16 15:28	01/26/16	
Lead, Total	200.8	0.6 U	ug/L	2.5	0.6	5	01/29/16 15:28	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 16:49	01/27/16	
Nickel, Total	200.8	3 U	ug/L	10	3	5	01/29/16 15:28	01/26/16	
Selenium, Total	200.8	6 U	ug/L	10	6	5	01/29/16 15:28	01/26/16	
Silver, Total	200.8	0.3 U	ug/L	2.5	0.3	5	01/29/16 15:28	01/26/16	
Thallium, Total	200.8	0.3 U	ug/L	1.0	0.3	5	01/29/16 15:28	01/26/16	
Zinc, Total	200.8	**13 I**	ug/L	25	8	5	01/29/16 15:28	01/26/16	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W M	**Basis:**	NA
Lab Code:	J1600458-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/26/16 16:11	01/25/16	
Phenolics, Total Recoverable	420.4	**0.05 IV**	mg/L	0.10	0.01	1	01/29/16 16:19	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W B	**Units:**	ug/L
Lab Code:	J1600458-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 06:03	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 06:03	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 06:03	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 06:03	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 06:03	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 06:03	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 06:03	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 06:03	
Benzene	0.210 U	1.00	0.210	1	01/23/16 06:03	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 06:03	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 06:03	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 06:03	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 06:03	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 06:03	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 06:03	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 06:03	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 06:03	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 06:03	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 06:03	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 06:03	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 06:03	
Tetrachloroethene (PCE)	**0.370 I**	1.00	0.220	1	01/23/16 06:03	
Toluene	0.190 U	1.00	0.190	1	01/23/16 06:03	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 06:03	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 06:03	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 06:03	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 06:03	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 06:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	78 - 129	01/23/16 06:03	
Dibromofluoromethane	97	80 - 114	01/23/16 06:03	
Toluene-d8	99	87 - 118	01/23/16 06:03	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W B	**Units:**	ug/L
Lab Code:	J1600458-003	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.30 U	5.00	1.30	1	01/27/16 17:07	1/26/16	
2-Chlorophenol	1.20 U	5.00	1.20	1	01/27/16 17:07	1/26/16	
4-Chloro-3-methylphenol	1.80 U	5.00	1.80	1	01/27/16 17:07	1/26/16	
Acenaphthene	4.20 U	5.00	4.20	1	01/27/16 17:07	1/26/16	
Acenaphthylene	0.990 U	5.00	0.990	1	01/27/16 17:07	1/26/16	
Anthracene	1.60 U	5.00	1.60	1	01/27/16 17:07	1/26/16	
Benzo(a)pyrene	1.20 U	5.00	1.20	1	01/27/16 17:07	1/26/16	
Benzo(b)fluoranthene	1.00 U	5.00	1.00	1	01/27/16 17:07	1/26/16	
Benzo(g,h,i)perylene	1.40 U	5.00	1.40	1	01/27/16 17:07	1/26/16	
Benzo(k)fluoranthene	1.80 U	5.00	1.80	1	01/27/16 17:07	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.50 U	5.00	1.50	1	01/27/16 17:07	1/26/16	
Butyl Benzyl Phthalate	0.860 U	10.0	0.860	1	01/27/16 17:07	1/26/16	
Chrysene	1.20 U	5.00	1.20	1	01/27/16 17:07	1/26/16	
Dibenz(a,h)anthracene	1.50 U	5.00	1.50	1	01/27/16 17:07	1/26/16	
Diethyl Phthalate	1.70 U	5.00	1.70	1	01/27/16 17:07	1/26/16	
Di-n-butyl Phthalate	2.20 U	5.00	2.20	1	01/27/16 17:07	1/26/16	
Fluoranthene	1.40 U	5.00	1.40	1	01/27/16 17:07	1/26/16	
Fluorene	0.840 U	5.00	0.840	1	01/27/16 17:07	1/26/16	
Indeno(1,2,3-cd)pyrene	1.70 U	5.00	1.70	1	01/27/16 17:07	1/26/16	
Isophorone	1.80 U	5.00	1.80	1	01/27/16 17:07	1/26/16	
Naphthalene	0.530 U	5.00	0.530	1	01/27/16 17:07	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.10 U	5.00	1.10	1	01/27/16 17:07	1/26/16	
Phenanthrene	1.40 U	5.00	1.40	1	01/27/16 17:07	1/26/16	
Phenol	0.590 U	5.00	0.590	1	01/27/16 17:07	1/26/16	
Pyrene	0.740 U	5.00	0.740	1	01/27/16 17:07	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	54	33 - 133	01/27/16 17:07	
2-Fluorobiphenyl	52	22 - 105	01/27/16 17:07	
2-Fluorophenol	30	10 - 69	01/27/16 17:07	
Nitrobenzene-d5	52	10 - 123	01/27/16 17:07	
Phenol-d6	30	10 - 59	01/27/16 17:07	
p-Terphenyl-d14	84	28 - 120	01/27/16 17:07	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W B	**Units:**	ug/L
Lab Code:	J1600458-003	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 20:32	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 20:32	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 20:32	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 20:32	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 20:32	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 20:32	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 20:32	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 20:32	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 20:32	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 20:32	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 20:32	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 20:32	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 20:32	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 20:32	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 20:32	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 20:32	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 20:32	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 20:32	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 20:32	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 20:32	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 20:32	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 12:55	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 12:55	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 12:55	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 12:55	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 12:55	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 12:55	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 12:55	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	73	10 - 160	01/25/16 20:32	
Tetrachloro-m-xylene	74	22 - 126	01/25/16 20:32	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W B	**Basis:**	NA
Lab Code:	J1600458-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	2 U	ug/L	10	2	10	01/29/16 15:33	01/26/16	
Arsenic, Total	200.8	**6 I**	ug/L	10	5	10	01/29/16 15:33	01/26/16	
Barium, Total	200.8	**51**	ug/L	20	5	10	01/29/16 15:33	01/26/16	
Beryllium, Total	200.8	5.0 U	ug/L	5.0	0.4	10	01/29/16 15:33	01/26/16	
Cadmium, Total	200.8	1.0 U	ug/L	4.0	1.0	10	01/29/16 15:33	01/26/16	
Chromium, Total	200.8	**4 I**	ug/L	10	2	10	01/29/16 15:33	01/26/16	
Copper, Total	200.8	3 U	ug/L	10	3	10	01/29/16 15:33	01/26/16	
Lead, Total	200.8	1.2 U	ug/L	5.0	1.2	10	01/29/16 15:33	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 16:53	01/27/16	
Nickel, Total	200.8	5 U	ug/L	20	5	10	01/29/16 15:33	01/26/16	
Selenium, Total	200.8	11 U	ug/L	20	11	10	01/29/16 15:33	01/26/16	
Silver, Total	200.8	0.6 U	ug/L	5.0	0.6	10	01/29/16 15:33	01/26/16	
Thallium, Total	200.8	0.5 U	ug/L	2.0	0.5	10	01/29/16 15:33	01/26/16	
Zinc, Total	200.8	16 U	ug/L	50	16	10	01/29/16 15:33	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-W B	**Basis:**	NA
Lab Code:	J1600458-003		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/26/16 16:12	01/25/16	
Phenolics, Total Recoverable	420.4	**0.19**	**IV**	mg/L	0.40	0.04	1	01/29/16 16:36	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E S	**Units:**	ug/L
Lab Code:	J1600458-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 06:26	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 06:26	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 06:26	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 06:26	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 06:26	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 06:26	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 06:26	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 06:26	
Benzene	0.210 U	1.00	0.210	1	01/23/16 06:26	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 06:26	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 06:26	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 06:26	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 06:26	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 06:26	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 06:26	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 06:26	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 06:26	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 06:26	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 06:26	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 06:26	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 06:26	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 06:26	
Toluene	0.190 U	1.00	0.190	1	01/23/16 06:26	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 06:26	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 06:26	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 06:26	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 06:26	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 06:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	78 - 129	01/23/16 06:26	
Dibromofluoromethane	97	80 - 114	01/23/16 06:26	
Toluene-d8	99	87 - 118	01/23/16 06:26	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E S	**Units:**	ug/L
Lab Code:	J1600458-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 17:33	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 17:33	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 17:33	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 17:33	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 17:33	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 17:33	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 17:33	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 17:33	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 17:33	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 17:33	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 17:33	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 17:33	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 17:33	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 17:33	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 17:33	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 17:33	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 17:33	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 17:33	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 17:33	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 17:33	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 17:33	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 17:33	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 17:33	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 17:33	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 17:33	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	52	33 - 133	01/27/16 17:33	
2-Fluorobiphenyl	68	22 - 105	01/27/16 17:33	
2-Fluorophenol	43	10 - 69	01/27/16 17:33	
Nitrobenzene-d5	68	10 - 123	01/27/16 17:33	
Phenol-d6	38	10 - 59	01/27/16 17:33	
p-Terphenyl-d14	84	28 - 120	01/27/16 17:33	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E S	**Units:**	ug/L
Lab Code:	J1600458-004	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/25/16 20:49	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/25/16 20:49	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/25/16 20:49	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/25/16 20:49	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/25/16 20:49	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/25/16 20:49	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/25/16 20:49	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/25/16 20:49	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/25/16 20:49	1/25/16	
Dieldrin	**0.0118**	**I**	0.0204	0.0113	1	01/25/16 20:49	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/25/16 20:49	1/25/16	
Endosulfan II	**0.0126**	**I**	0.0204	0.0103	1	01/25/16 20:49	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/25/16 20:49	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/25/16 20:49	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/25/16 20:49	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/25/16 20:49	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/25/16 20:49	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/25/16 20:49	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/25/16 20:49	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/25/16 20:49	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/25/16 20:49	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 13:10	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 13:10	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 13:10	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 13:10	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 13:10	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 13:10	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 13:10	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	60	10 - 160	01/25/16 20:49	
Tetrachloro-m-xylene	72	22 - 126	01/25/16 20:49	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E S	**Basis:**	NA
Lab Code:	J1600458-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	**0.4 I**	ug/L	1.0	0.2	1	01/29/16 15:39	01/26/16	
Arsenic, Total	200.8	**0.8 I**	ug/L	1.0	0.5	1	01/29/16 15:39	01/26/16	
Barium, Total	200.8	**23.0**	ug/L	2.0	0.5	1	01/29/16 15:39	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 15:39	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 15:39	01/26/16	
Chromium, Total	200.8	**0.5 I**	ug/L	1.0	0.2	1	01/29/16 15:39	01/26/16	
Copper, Total	200.8	**1.4**	ug/L	1.0	0.3	1	01/29/16 15:39	01/26/16	
Lead, Total	200.8	**0.26 I**	ug/L	0.50	0.12	1	01/29/16 15:39	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 16:58	01/27/16	
Nickel, Total	200.8	**0.5 I**	ug/L	2.0	0.5	1	01/29/16 15:39	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 15:39	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 15:39	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 15:39	01/26/16	
Zinc, Total	200.8	**11.8**	ug/L	5.0	1.6	1	01/29/16 15:39	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E S	**Basis:**	NA
Lab Code:	J1600458-004		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/26/16 16:13	01/25/16	
Phenolics, Total Recoverable	420.4	**0.03 IV**	mg/L	0.10	0.01	1	01/29/16 16:19	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E M	**Units:**	ug/L
Lab Code:	J1600458-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 06:50	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 06:50	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 06:50	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 06:50	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 06:50	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 06:50	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 06:50	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 06:50	
Benzene	0.210 U	1.00	0.210	1	01/23/16 06:50	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 06:50	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 06:50	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 06:50	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 06:50	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 06:50	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 06:50	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 06:50	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 06:50	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 06:50	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 06:50	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 06:50	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 06:50	
Tetrachloroethene (PCE)	**0.270 I**	1.00	0.220	1	01/23/16 06:50	
Toluene	0.190 U	1.00	0.190	1	01/23/16 06:50	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 06:50	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 06:50	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 06:50	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 06:50	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 06:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	78 - 129	01/23/16 06:50	
Dibromofluoromethane	99	80 - 114	01/23/16 06:50	
Toluene-d8	100	87 - 118	01/23/16 06:50	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E M	**Units:**	ug/L
Lab Code:	J1600458-005	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 17:58	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 17:58	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 17:58	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 17:58	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 17:58	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 17:58	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 17:58	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 17:58	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 17:58	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 17:58	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 17:58	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 17:58	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 17:58	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 17:58	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 17:58	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 17:58	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 17:58	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 17:58	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 17:58	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 17:58	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 17:58	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 17:58	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 17:58	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 17:58	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 17:58	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	38	33 - 133	01/27/16 17:58	
2-Fluorobiphenyl	58	22 - 105	01/27/16 17:58	
2-Fluorophenol	34	10 - 69	01/27/16 17:58	
Nitrobenzene-d5	58	10 - 123	01/27/16 17:58	
Phenol-d6	32	10 - 59	01/27/16 17:58	
p-Terphenyl-d14	75	28 - 120	01/27/16 17:58	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E M	**Units:**	ug/L
Lab Code:	J1600458-005	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/25/16 21:05	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/25/16 21:05	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/25/16 21:05	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/25/16 21:05	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/25/16 21:05	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/25/16 21:05	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/25/16 21:05	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/25/16 21:05	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/25/16 21:05	1/25/16	
Dieldrin	**0.0117**	**I**	0.0204	0.0113	1	01/25/16 21:05	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/25/16 21:05	1/25/16	
Endosulfan II	**0.0113**	**I**	0.0204	0.0103	1	01/25/16 21:05	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/25/16 21:05	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/25/16 21:05	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/25/16 21:05	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/25/16 21:05	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/25/16 21:05	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/25/16 21:05	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/25/16 21:05	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/25/16 21:05	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/25/16 21:05	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 13:26	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 13:26	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 13:26	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 13:26	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 13:26	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 13:26	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 13:26	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 160	01/25/16 21:05	
Tetrachloro-m-xylene	73	22 - 126	01/25/16 21:05	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E M	**Basis:**	NA
Lab Code:	J1600458-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	**1.0**	**I**	ug/L	5.0	0.8	5	01/29/16 15:55	01/26/16	
Arsenic, Total	200.8	2.1	U	ug/L	5.0	2.1	5	01/29/16 15:55	01/26/16	
Barium, Total	200.8	**26**		ug/L	10	3	5	01/29/16 15:55	01/26/16	
Beryllium, Total	200.8	2.5	U	ug/L	2.5	0.2	5	01/29/16 15:55	01/26/16	
Cadmium, Total	200.8	0.5	U	ug/L	2.0	0.5	5	01/29/16 15:55	01/26/16	
Chromium, Total	200.8	0.9	U	ug/L	5.0	0.9	5	01/29/16 15:55	01/26/16	
Copper, Total	200.8	1.2	U	ug/L	5.0	1.2	5	01/29/16 15:55	01/26/16	
Lead, Total	200.8	0.6	U	ug/L	2.5	0.6	5	01/29/16 15:55	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 17:00	01/27/16	
Nickel, Total	200.8	3	U	ug/L	10	3	5	01/29/16 15:55	01/26/16	
Selenium, Total	200.8	6	U	ug/L	10	6	5	01/29/16 15:55	01/26/16	
Silver, Total	200.8	0.3	U	ug/L	2.5	0.3	5	01/29/16 15:55	01/26/16	
Thallium, Total	200.8	0.3	U	ug/L	1.0	0.3	5	01/29/16 15:55	01/26/16	
Zinc, Total	200.8	**23**	**I**	ug/L	25	8	5	01/29/16 15:55	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E M	**Basis:**	NA
Lab Code:	J1600458-005		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/26/16 16:14	01/25/16	
Phenolics, Total Recoverable	420.4	**0.04**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:20	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:55
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E B	**Units:**	ug/L
Lab Code:	J1600458-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 07:14	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 07:14	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 07:14	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 07:14	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 07:14	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 07:14	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 07:14	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 07:14	
Benzene	0.210 U	1.00	0.210	1	01/23/16 07:14	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 07:14	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 07:14	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 07:14	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 07:14	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 07:14	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 07:14	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 07:14	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 07:14	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 07:14	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 07:14	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 07:14	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 07:14	
Tetrachloroethene (PCE)	**0.250 I**	1.00	0.220	1	01/23/16 07:14	
Toluene	0.190 U	1.00	0.190	1	01/23/16 07:14	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 07:14	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 07:14	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 07:14	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 07:14	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 07:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	78 - 129	01/23/16 07:14	
Dibromofluoromethane	99	80 - 114	01/23/16 07:14	
Toluene-d8	101	87 - 118	01/23/16 07:14	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:55
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E B	**Units:**	ug/L
Lab Code:	J1600458-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.30 U	5.00	1.30	1	01/27/16 18:23	1/26/16	
2-Chlorophenol	1.20 U	5.00	1.20	1	01/27/16 18:23	1/26/16	
4-Chloro-3-methylphenol	1.80 U	5.00	1.80	1	01/27/16 18:23	1/26/16	
Acenaphthene	4.20 U	5.00	4.20	1	01/27/16 18:23	1/26/16	
Acenaphthylene	0.990 U	5.00	0.990	1	01/27/16 18:23	1/26/16	
Anthracene	1.60 U	5.00	1.60	1	01/27/16 18:23	1/26/16	
Benzo(a)pyrene	1.20 U	5.00	1.20	1	01/27/16 18:23	1/26/16	
Benzo(b)fluoranthene	1.00 U	5.00	1.00	1	01/27/16 18:23	1/26/16	
Benzo(g,h,i)perylene	1.40 U	5.00	1.40	1	01/27/16 18:23	1/26/16	
Benzo(k)fluoranthene	1.80 U	5.00	1.80	1	01/27/16 18:23	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.50 U	5.00	1.50	1	01/27/16 18:23	1/26/16	
Butyl Benzyl Phthalate	0.860 U	10.0	0.860	1	01/27/16 18:23	1/26/16	
Chrysene	1.20 U	5.00	1.20	1	01/27/16 18:23	1/26/16	
Dibenz(a,h)anthracene	1.50 U	5.00	1.50	1	01/27/16 18:23	1/26/16	
Diethyl Phthalate	1.70 U	5.00	1.70	1	01/27/16 18:23	1/26/16	
Di-n-butyl Phthalate	2.20 U	5.00	2.20	1	01/27/16 18:23	1/26/16	
Fluoranthene	1.40 U	5.00	1.40	1	01/27/16 18:23	1/26/16	
Fluorene	0.840 U	5.00	0.840	1	01/27/16 18:23	1/26/16	
Indeno(1,2,3-cd)pyrene	1.70 U	5.00	1.70	1	01/27/16 18:23	1/26/16	
Isophorone	1.80 U	5.00	1.80	1	01/27/16 18:23	1/26/16	
Naphthalene	0.530 U	5.00	0.530	1	01/27/16 18:23	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.10 U	5.00	1.10	1	01/27/16 18:23	1/26/16	
Phenanthrene	1.40 U	5.00	1.40	1	01/27/16 18:23	1/26/16	
Phenol	0.590 U	5.00	0.590	1	01/27/16 18:23	1/26/16	
Pyrene	0.740 U	5.00	0.740	1	01/27/16 18:23	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	50	33 - 133	01/27/16 18:23	
2-Fluorobiphenyl	53	22 - 105	01/27/16 18:23	
2-Fluorophenol	31	10 - 69	01/27/16 18:23	
Nitrobenzene-d5	51	10 - 123	01/27/16 18:23	
Phenol-d6	32	10 - 59	01/27/16 18:23	
p-Terphenyl-d14	94	28 - 120	01/27/16 18:23	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:55
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E B	**Units:**	ug/L
Lab Code:	J1600458-006	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/25/16 21:22	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/25/16 21:22	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/25/16 21:22	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/25/16 21:22	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/25/16 21:22	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/25/16 21:22	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/25/16 21:22	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/25/16 21:22	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/25/16 21:22	1/25/16	
Dieldrin	0.0113	U	0.0204	0.0113	1	01/25/16 21:22	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/25/16 21:22	1/25/16	
Endosulfan II	**0.0104**	**I**	0.0204	0.0103	1	01/25/16 21:22	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/25/16 21:22	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/25/16 21:22	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/25/16 21:22	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/25/16 21:22	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/25/16 21:22	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/25/16 21:22	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/25/16 21:22	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/25/16 21:22	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/25/16 21:22	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 13:41	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 13:41	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 13:41	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 13:41	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 13:41	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 13:41	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 13:41	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 160	01/25/16 21:22	
Tetrachloro-m-xylene	67	22 - 126	01/25/16 21:22	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:55
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E B	**Basis:**	NA
Lab Code:	J1600458-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	2	U	ug/L	10	2	10	01/29/16 16:00	01/26/16	
Arsenic, Total	200.8	**8**	**I**	ug/L	10	5	10	01/29/16 16:00	01/26/16	
Barium, Total	200.8	**53**		ug/L	20	5	10	01/29/16 16:00	01/26/16	
Beryllium, Total	200.8	5.0	U	ug/L	5.0	0.4	10	01/29/16 16:00	01/26/16	
Cadmium, Total	200.8	1.0	U	ug/L	4.0	1.0	10	01/29/16 16:00	01/26/16	
Chromium, Total	200.8	**3**	**I**	ug/L	10	2	10	01/29/16 16:00	01/26/16	
Copper, Total	200.8	3	U	ug/L	10	3	10	01/29/16 16:00	01/26/16	
Lead, Total	200.8	1.2	U	ug/L	5.0	1.2	10	01/29/16 16:00	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 17:01	01/27/16	
Nickel, Total	200.8	5	U	ug/L	20	5	10	01/29/16 16:00	01/26/16	
Selenium, Total	200.8	11	U	ug/L	20	11	10	01/29/16 16:00	01/26/16	
Silver, Total	200.8	0.6	U	ug/L	5.0	0.6	10	01/29/16 16:00	01/26/16	
Thallium, Total	200.8	0.5	U	ug/L	2.0	0.5	10	01/29/16 16:00	01/26/16	
Zinc, Total	200.8	16	U	ug/L	50	16	10	01/29/16 16:00	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 11:55
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SW-E B	**Basis:**	NA
Lab Code:	J1600458-006		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/26/16 16:15	01/25/16	
Phenolics, Total Recoverable	420.4	**0.04 IV**	mg/L	0.10	0.01	1	01/29/16 16:20	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:05
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E S	**Units:**	ug/L
Lab Code:	J1600458-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 07:37	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 07:37	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 07:37	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 07:37	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 07:37	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 07:37	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 07:37	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 07:37	
Benzene	0.210 U	1.00	0.210	1	01/23/16 07:37	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 07:37	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 07:37	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 07:37	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 07:37	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 07:37	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 07:37	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 07:37	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 07:37	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 07:37	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 07:37	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 07:37	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 07:37	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 07:37	
Toluene	0.190 U	1.00	0.190	1	01/23/16 07:37	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 07:37	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 07:37	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 07:37	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 07:37	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 07:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	78 - 129	01/23/16 07:37	
Dibromofluoromethane	99	80 - 114	01/23/16 07:37	
Toluene-d8	100	87 - 118	01/23/16 07:37	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:05
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E S	**Units:**	ug/L
Lab Code:	J1600458-007	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 18:49	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 18:49	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 18:49	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 18:49	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 18:49	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 18:49	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 18:49	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 18:49	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 18:49	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 18:49	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 18:49	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 18:49	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 18:49	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 18:49	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 18:49	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 18:49	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 18:49	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 18:49	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 18:49	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 18:49	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 18:49	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 18:49	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 18:49	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 18:49	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 18:49	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	37	33 - 133	01/27/16 18:49	
2-Fluorobiphenyl	52	22 - 105	01/27/16 18:49	
2-Fluorophenol	31	10 - 69	01/27/16 18:49	
Nitrobenzene-d5	51	10 - 123	01/27/16 18:49	
Phenol-d6	28	10 - 59	01/27/16 18:49	
p-Terphenyl-d14	82	28 - 120	01/27/16 18:49	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:05
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E S	**Units:**	ug/L
Lab Code:	J1600458-007	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 21:38	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 21:38	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 21:38	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 21:38	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 21:38	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 21:38	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 21:38	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 21:38	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 21:38	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 21:38	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 21:38	1/25/16	
Endosulfan II	**0.0128 I**	0.0204	0.0103	1	01/25/16 21:38	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 21:38	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 21:38	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 21:38	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 21:38	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 21:38	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 21:38	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 21:38	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 21:38	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 21:38	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 13:56	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 13:56	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 13:56	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 13:56	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 13:56	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 13:56	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 13:56	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 160	01/25/16 21:38	
Tetrachloro-m-xylene	76	22 - 126	01/25/16 21:38	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:05
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E S	**Basis:**	NA
Lab Code:	J1600458-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4 U	ug/L	2.0	0.4	2	01/29/16 16:05	01/26/16	
Arsenic, Total	200.8	0.9 U	ug/L	2.0	0.9	2	01/29/16 16:05	01/26/16	
Barium, Total	200.8	**34.0**	ug/L	4.0	0.9	2	01/29/16 16:05	01/26/16	
Beryllium, Total	200.8	1.0 U	ug/L	1.0	0.07	2	01/29/16 16:05	01/26/16	
Cadmium, Total	200.8	0.19 U	ug/L	0.80	0.19	2	01/29/16 16:05	01/26/16	
Chromium, Total	200.8	**0.6 I**	ug/L	2.0	0.4	2	01/29/16 16:05	01/26/16	
Copper, Total	200.8	**0.6 I**	ug/L	2.0	0.5	2	01/29/16 16:05	01/26/16	
Lead, Total	200.8	0.3 U	ug/L	1.0	0.3	2	01/29/16 16:05	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:02	01/27/16	
Nickel, Total	200.8	1.0 U	ug/L	4.0	1.0	2	01/29/16 16:05	01/26/16	
Selenium, Total	200.8	2.2 U	ug/L	4.0	2.2	2	01/29/16 16:05	01/26/16	
Silver, Total	200.8	0.2 U	ug/L	1.0	0.2	2	01/29/16 16:05	01/26/16	
Thallium, Total	200.8	0.10 U	ug/L	0.40	0.10	2	01/29/16 16:05	01/26/16	
Zinc, Total	200.8	**6 I**	ug/L	10	4	2	01/29/16 16:05	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:05
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E S	**Basis:**	NA
Lab Code:	J1600458-007		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/26/16 16:21	01/25/16	
Phenolics, Total Recoverable	420.4	**0.04**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:21	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:20
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 08:01	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 08:01	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 08:01	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 08:01	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 08:01	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 08:01	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 08:01	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 08:01	
Benzene	0.210 U	1.00	0.210	1	01/23/16 08:01	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 08:01	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 08:01	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 08:01	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 08:01	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 08:01	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 08:01	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 08:01	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 08:01	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 08:01	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 08:01	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 08:01	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 08:01	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 08:01	
Toluene	0.190 U	1.00	0.190	1	01/23/16 08:01	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 08:01	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 08:01	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 08:01	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 08:01	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 08:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	78 - 129	01/23/16 08:01	
Dibromofluoromethane	100	80 - 114	01/23/16 08:01	
Toluene-d8	101	87 - 118	01/23/16 08:01	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:20
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-008	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 19:14	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 19:14	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 19:14	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 19:14	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 19:14	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 19:14	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 19:14	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 19:14	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 19:14	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 19:14	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 19:14	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 19:14	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 19:14	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 19:14	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 19:14	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 19:14	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 19:14	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 19:14	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 19:14	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 19:14	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 19:14	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 19:14	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 19:14	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 19:14	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 19:14	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	38	33 - 133	01/27/16 19:14	
2-Fluorobiphenyl	63	22 - 105	01/27/16 19:14	
2-Fluorophenol	40	10 - 69	01/27/16 19:14	
Nitrobenzene-d5	63	10 - 123	01/27/16 19:14	
Phenol-d6	37	10 - 59	01/27/16 19:14	
p-Terphenyl-d14	76	28 - 120	01/27/16 19:14	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:20
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-008	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 21:55	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 21:55	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 21:55	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 21:55	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 21:55	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 21:55	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 21:55	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 21:55	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 21:55	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 21:55	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 21:55	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 21:55	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 21:55	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 21:55	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 21:55	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 21:55	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 21:55	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 21:55	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 21:55	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 21:55	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 21:55	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 14:12	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 14:12	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 14:12	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 14:12	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 14:12	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 14:12	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 14:12	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 160	01/25/16 21:55	
Tetrachloro-m-xylene	66	22 - 126	01/25/16 21:55	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:20
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Basis:**	NA
Lab Code:	J1600458-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4	U	ug/L	2.0	0.4	2	01/29/16 16:11	01/26/16	
Arsenic, Total	200.8	0.9	U	ug/L	2.0	0.9	2	01/29/16 16:11	01/26/16	
Barium, Total	200.8	**36.5**		ug/L	4.0	0.9	2	01/29/16 16:11	01/26/16	
Beryllium, Total	200.8	1.0	U	ug/L	1.0	0.07	2	01/29/16 16:11	01/26/16	
Cadmium, Total	200.8	0.19	U	ug/L	0.80	0.19	2	01/29/16 16:11	01/26/16	
Chromium, Total	200.8	**0.8**	**I**	ug/L	2.0	0.4	2	01/29/16 16:11	01/26/16	
Copper, Total	200.8	**0.6**	**I**	ug/L	2.0	0.5	2	01/29/16 16:11	01/26/16	
Lead, Total	200.8	0.3	U	ug/L	1.0	0.3	2	01/29/16 16:11	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 17:04	01/27/16	
Nickel, Total	200.8	1.0	U	ug/L	4.0	1.0	2	01/29/16 16:11	01/26/16	
Selenium, Total	200.8	2.2	U	ug/L	4.0	2.2	2	01/29/16 16:11	01/26/16	
Silver, Total	200.8	0.2	U	ug/L	1.0	0.2	2	01/29/16 16:11	01/26/16	
Thallium, Total	200.8	0.10	U	ug/L	0.40	0.10	2	01/29/16 16:11	01/26/16	
Zinc, Total	200.8	**8**	**I**	ug/L	10	4	2	01/29/16 16:11	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:20
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Basis:**	NA
Lab Code:	J1600458-008		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/26/16 16:22	01/25/16	
Phenolics, Total Recoverable	420.4	**0.04 IV**	mg/L	0.10	0.01	1	01/29/16 16:25	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:35
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E B	**Units:**	ug/L
Lab Code:	J1600458-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 08:24	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 08:24	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 08:24	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 08:24	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 08:24	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 08:24	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 08:24	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 08:24	
Benzene	0.210 U	1.00	0.210	1	01/23/16 08:24	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 08:24	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 08:24	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 08:24	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 08:24	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 08:24	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 08:24	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 08:24	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 08:24	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 08:24	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 08:24	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 08:24	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 08:24	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 08:24	
Toluene	0.190 U	1.00	0.190	1	01/23/16 08:24	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 08:24	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 08:24	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 08:24	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 08:24	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 08:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	78 - 129	01/23/16 08:24	
Dibromofluoromethane	100	80 - 114	01/23/16 08:24	
Toluene-d8	97	87 - 118	01/23/16 08:24	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:35
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E B	**Units:**	ug/L
Lab Code:	J1600458-009	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 19:39	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 19:39	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 19:39	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 19:39	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 19:39	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 19:39	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 19:39	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 19:39	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 19:39	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 19:39	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 19:39	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 19:39	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 19:39	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 19:39	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 19:39	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 19:39	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 19:39	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 19:39	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 19:39	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 19:39	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 19:39	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 19:39	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 19:39	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 19:39	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 19:39	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	45	33 - 133	01/27/16 19:39	
2-Fluorobiphenyl	59	22 - 105	01/27/16 19:39	
2-Fluorophenol	39	10 - 69	01/27/16 19:39	
Nitrobenzene-d5	55	10 - 123	01/27/16 19:39	
Phenol-d6	34	10 - 59	01/27/16 19:39	
p-Terphenyl-d14	78	28 - 120	01/27/16 19:39	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:35
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E B	**Units:**	ug/L
Lab Code:	J1600458-009	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 22:11	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 22:11	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 22:11	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 22:11	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 22:11	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 22:11	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 22:11	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 22:11	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 22:11	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 22:11	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 22:11	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 22:11	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 22:11	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 22:11	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 22:11	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 22:11	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 22:11	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 22:11	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 22:11	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 22:11	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 22:11	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 14:27	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 14:27	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 14:27	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 14:27	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 14:27	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 14:27	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 14:27	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 160	01/25/16 22:11	
Tetrachloro-m-xylene	77	22 - 126	01/25/16 22:11	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:35
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E B	**Basis:**	NA
Lab Code:	J1600458-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4 U	ug/L	2.0	0.4	2	01/29/16 16:16	01/26/16	
Arsenic, Total	200.8	**0.9 I**	ug/L	2.0	0.9	2	01/29/16 16:16	01/26/16	
Barium, Total	200.8	**37.8**	ug/L	4.0	0.9	2	01/29/16 16:16	01/26/16	
Beryllium, Total	200.8	1.0 U	ug/L	1.0	0.07	2	01/29/16 16:16	01/26/16	
Cadmium, Total	200.8	0.19 U	ug/L	0.80	0.19	2	01/29/16 16:16	01/26/16	
Chromium, Total	200.8	**0.7 I**	ug/L	2.0	0.4	2	01/29/16 16:16	01/26/16	
Copper, Total	200.8	**0.6 I**	ug/L	2.0	0.5	2	01/29/16 16:16	01/26/16	
Lead, Total	200.8	0.3 U	ug/L	1.0	0.3	2	01/29/16 16:16	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:05	01/27/16	
Nickel, Total	200.8	1.0 U	ug/L	4.0	1.0	2	01/29/16 16:16	01/26/16	
Selenium, Total	200.8	2.2 U	ug/L	4.0	2.2	2	01/29/16 16:16	01/26/16	
Silver, Total	200.8	0.2 U	ug/L	1.0	0.2	2	01/29/16 16:16	01/26/16	
Thallium, Total	200.8	0.10 U	ug/L	0.40	0.10	2	01/29/16 16:16	01/26/16	
Zinc, Total	200.8	**7 I**	ug/L	10	4	2	01/29/16 16:16	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 14:35
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E B	**Basis:**	NA
Lab Code:	J1600458-009		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	**3 I**	ug/L	10	3	1	01/26/16 16:23	01/25/16	
Phenolics, Total Recoverable	420.4	**0.05 IV**	mg/L	0.10	0.01	1	01/29/16 16:25	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-W S	**Units:**	ug/L
Lab Code:	J1600458-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 08:48	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 08:48	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 08:48	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 08:48	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 08:48	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 08:48	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 08:48	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 08:48	
Benzene	0.210 U	1.00	0.210	1	01/23/16 08:48	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 08:48	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 08:48	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 08:48	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 08:48	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 08:48	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 08:48	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 08:48	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 08:48	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 08:48	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 08:48	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 08:48	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 08:48	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 08:48	
Toluene	0.190 U	1.00	0.190	1	01/23/16 08:48	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 08:48	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 08:48	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 08:48	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 08:48	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 08:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	78 - 129	01/23/16 08:48	
Dibromofluoromethane	100	80 - 114	01/23/16 08:48	
Toluene-d8	99	87 - 118	01/23/16 08:48	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-W S	**Units:**	ug/L
Lab Code:	J1600458-010	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 20:05	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 20:05	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 20:05	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 20:05	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 20:05	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 20:05	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 20:05	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 20:05	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 20:05	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 20:05	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 20:05	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 20:05	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 20:05	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 20:05	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 20:05	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 20:05	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 20:05	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 20:05	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 20:05	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 20:05	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 20:05	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 20:05	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 20:05	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 20:05	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 20:05	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	44	33 - 133	01/27/16 20:05	
2-Fluorobiphenyl	61	22 - 105	01/27/16 20:05	
2-Fluorophenol	37	10 - 69	01/27/16 20:05	
Nitrobenzene-d5	58	10 - 123	01/27/16 20:05	
Phenol-d6	35	10 - 59	01/27/16 20:05	
p-Terphenyl-d14	76	28 - 120	01/27/16 20:05	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-W S	**Units:**	ug/L
Lab Code:	J1600458-010	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 22:28	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 22:28	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 22:28	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 22:28	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 22:28	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 22:28	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 22:28	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 22:28	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 22:28	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 22:28	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 22:28	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 22:28	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 22:28	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 22:28	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 22:28	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 22:28	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 22:28	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 22:28	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 22:28	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 22:28	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 22:28	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 14:43	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 14:43	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 14:43	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 14:43	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 14:43	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 14:43	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 14:43	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	68	10 - 160	01/25/16 22:28	
Tetrachloro-m-xylene	65	22 - 126	01/25/16 22:28	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-W S	**Basis:**	NA
Lab Code:	J1600458-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4	U	ug/L	2.0	0.4	2	01/29/16 16:22	01/26/16	
Arsenic, Total	200.8	**1.5**	**I**	ug/L	2.0	0.9	2	01/29/16 16:22	01/26/16	
Barium, Total	200.8	**33.8**		ug/L	4.0	0.9	2	01/29/16 16:22	01/26/16	
Beryllium, Total	200.8	1.0	U	ug/L	1.0	0.07	2	01/29/16 16:22	01/26/16	
Cadmium, Total	200.8	0.19	U	ug/L	0.80	0.19	2	01/29/16 16:22	01/26/16	
Chromium, Total	200.8	**0.8**	**I**	ug/L	2.0	0.4	2	01/29/16 16:22	01/26/16	
Copper, Total	200.8	**0.6**	**I**	ug/L	2.0	0.5	2	01/29/16 16:22	01/26/16	
Lead, Total	200.8	0.3	U	ug/L	1.0	0.3	2	01/29/16 16:22	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 17:06	01/27/16	
Nickel, Total	200.8	1.0	U	ug/L	4.0	1.0	2	01/29/16 16:22	01/26/16	
Selenium, Total	200.8	2.2	U	ug/L	4.0	2.2	2	01/29/16 16:22	01/26/16	
Silver, Total	200.8	0.2	U	ug/L	1.0	0.2	2	01/29/16 16:22	01/26/16	
Thallium, Total	200.8	0.10	U	ug/L	0.40	0.10	2	01/29/16 16:22	01/26/16	
Zinc, Total	200.8	**6**	**I**	ug/L	10	4	2	01/29/16 16:22	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-W S	**Basis:**	NA
Lab Code:	J1600458-010		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/29/16 14:35	01/28/16	
Phenolics, Total Recoverable	420.4	**0.04**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:26	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 09:11	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 09:11	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 09:11	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 09:11	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 09:11	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 09:11	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 09:11	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 09:11	
Benzene	0.210 U	1.00	0.210	1	01/23/16 09:11	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 09:11	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 09:11	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 09:11	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 09:11	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 09:11	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 09:11	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 09:11	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 09:11	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 09:11	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 09:11	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 09:11	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 09:11	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 09:11	
Toluene	0.190 U	1.00	0.190	1	01/23/16 09:11	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 09:11	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 09:11	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 09:11	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 09:11	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 09:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	78 - 129	01/23/16 09:11	
Dibromofluoromethane	102	80 - 114	01/23/16 09:11	
Toluene-d8	99	87 - 118	01/23/16 09:11	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-011	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 20:30	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 20:30	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 20:30	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 20:30	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 20:30	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 20:30	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 20:30	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 20:30	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 20:30	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 20:30	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 20:30	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 20:30	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 20:30	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 20:30	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 20:30	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 20:30	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 20:30	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 20:30	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 20:30	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 20:30	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 20:30	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 20:30	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 20:30	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 20:30	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 20:30	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	48	33 - 133	01/27/16 20:30	
2-Fluorobiphenyl	57	22 - 105	01/27/16 20:30	
2-Fluorophenol	38	10 - 69	01/27/16 20:30	
Nitrobenzene-d5	58	10 - 123	01/27/16 20:30	
Phenol-d6	34	10 - 59	01/27/16 20:30	
p-Terphenyl-d14	82	28 - 120	01/27/16 20:30	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Units:**	ug/L
Lab Code:	J1600458-011	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 22:44	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 22:44	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 22:44	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 22:44	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 22:44	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 22:44	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 22:44	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 22:44	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 22:44	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 22:44	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 22:44	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 22:44	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 22:44	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 22:44	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 22:44	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 22:44	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 22:44	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 22:44	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 22:44	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 22:44	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 22:44	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 14:58	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 14:58	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 14:58	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 14:58	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 14:58	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 14:58	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 14:58	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	58	10 - 160	01/25/16 22:44	
Tetrachloro-m-xylene	63	22 - 126	01/25/16 22:44	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Basis:**	NA
Lab Code:	J1600458-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4 U	ug/L	2.0	0.4	2	01/29/16 16:27	01/26/16	
Arsenic, Total	200.8	**1.7 I**	ug/L	2.0	0.9	2	01/29/16 16:27	01/26/16	
Barium, Total	200.8	**41.5**	ug/L	4.0	0.9	2	01/29/16 16:27	01/26/16	
Beryllium, Total	200.8	1.0 U	ug/L	1.0	0.07	2	01/29/16 16:27	01/26/16	
Cadmium, Total	200.8	0.19 U	ug/L	0.80	0.19	2	01/29/16 16:27	01/26/16	
Chromium, Total	200.8	**0.8 I**	ug/L	2.0	0.4	2	01/29/16 16:27	01/26/16	
Copper, Total	200.8	**0.6 I**	ug/L	2.0	0.5	2	01/29/16 16:27	01/26/16	
Lead, Total	200.8	0.3 U	ug/L	1.0	0.3	2	01/29/16 16:27	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:39	01/27/16	
Nickel, Total	200.8	1.0 U	ug/L	4.0	1.0	2	01/29/16 16:27	01/26/16	
Selenium, Total	200.8	2.2 U	ug/L	4.0	2.2	2	01/29/16 16:27	01/26/16	
Silver, Total	200.8	0.2 U	ug/L	1.0	0.2	2	01/29/16 16:27	01/26/16	
Thallium, Total	200.8	0.10 U	ug/L	0.40	0.10	2	01/29/16 16:27	01/26/16	
Zinc, Total	200.8	**7 I**	ug/L	10	4	2	01/29/16 16:27	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	SE-E M	**Basis:**	NA
Lab Code:	J1600458-011		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/29/16 14:36	01/28/16	
Phenolics, Total Recoverable	420.4	**0.04**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:27	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:45
Sample Matrix:	Water	**Date Received:**	01/22/16 13:00
Sample Name:	SE-W B	**Units:**	ug/L
Lab Code:	J1600458-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 09:35	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 09:35	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 09:35	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 09:35	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 09:35	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 09:35	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 09:35	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 09:35	
Benzene	0.210 U	1.00	0.210	1	01/23/16 09:35	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 09:35	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 09:35	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 09:35	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 09:35	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 09:35	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 09:35	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 09:35	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 09:35	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 09:35	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 09:35	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 09:35	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 09:35	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 09:35	
Toluene	0.190 U	1.00	0.190	1	01/23/16 09:35	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 09:35	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 09:35	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 09:35	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 09:35	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 09:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	78 - 129	01/23/16 09:35	
Dibromofluoromethane	100	80 - 114	01/23/16 09:35	
Toluene-d8	98	87 - 118	01/23/16 09:35	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:45
Sample Matrix:	Water	**Date Received:**	01/22/16 13:00
Sample Name:	SE-W B	**Units:**	ug/L
Lab Code:	J1600458-012	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 20:55	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 20:55	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 20:55	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 20:55	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 20:55	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 20:55	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 20:55	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 20:55	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 20:55	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 20:55	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 20:55	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 20:55	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 20:55	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 20:55	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 20:55	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 20:55	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 20:55	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 20:55	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 20:55	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 20:55	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 20:55	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 20:55	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 20:55	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 20:55	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 20:55	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	46	33 - 133	01/27/16 20:55	
2-Fluorobiphenyl	58	22 - 105	01/27/16 20:55	
2-Fluorophenol	39	10 - 69	01/27/16 20:55	
Nitrobenzene-d5	58	10 - 123	01/27/16 20:55	
Phenol-d6	34	10 - 59	01/27/16 20:55	
p-Terphenyl-d14	76	28 - 120	01/27/16 20:55	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:45
Sample Matrix:	Water	**Date Received:**	01/22/16 13:00
Sample Name:	SE-W B	**Units:**	ug/L
Lab Code:	J1600458-012	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 23:01	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 23:01	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 23:01	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 23:01	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 23:01	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 23:01	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 23:01	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 23:01	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 23:01	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 23:01	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 23:01	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 23:01	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 23:01	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 23:01	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 23:01	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 23:01	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 23:01	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 23:01	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 23:01	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 23:01	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 23:01	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 15:13	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 15:13	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 15:13	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 15:13	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 15:13	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 15:13	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 15:13	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 160	01/25/16 23:01	
Tetrachloro-m-xylene	70	22 - 126	01/25/16 23:01	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:45
Sample Matrix:	Water	**Date Received:**	01/22/16 13:00
Sample Name:	SE-W B	**Basis:**	NA
Lab Code:	J1600458-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.4	U	ug/L	2.0	0.4	2	01/29/16 16:32	01/26/16	
Arsenic, Total	200.8	**1.6**	**I**	ug/L	2.0	0.9	2	01/29/16 16:32	01/26/16	
Barium, Total	200.8	**41.5**		ug/L	4.0	0.9	2	01/29/16 16:32	01/26/16	
Beryllium, Total	200.8	1.0	U	ug/L	1.0	0.07	2	01/29/16 16:32	01/26/16	
Cadmium, Total	200.8	0.19	U	ug/L	0.80	0.19	2	01/29/16 16:32	01/26/16	
Chromium, Total	200.8	**0.9**	**I**	ug/L	2.0	0.4	2	01/29/16 16:32	01/26/16	
Copper, Total	200.8	**0.6**	**I**	ug/L	2.0	0.5	2	01/29/16 16:32	01/26/16	
Lead, Total	200.8	0.3	U	ug/L	1.0	0.3	2	01/29/16 16:32	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 17:40	01/27/16	
Nickel, Total	200.8	1.0	U	ug/L	4.0	1.0	2	01/29/16 16:32	01/26/16	
Selenium, Total	200.8	2.2	U	ug/L	4.0	2.2	2	01/29/16 16:32	01/26/16	
Silver, Total	200.8	0.2	U	ug/L	1.0	0.2	2	01/29/16 16:32	01/26/16	
Thallium, Total	200.8	0.10	U	ug/L	0.40	0.10	2	01/29/16 16:32	01/26/16	
Zinc, Total	200.8	**6**	**I**	ug/L	10	4	2	01/29/16 16:32	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16 15:45
Sample Matrix:	Water	**Date Received:**	01/22/16 13:00
Sample Name:	SE-W B	**Basis:**	NA
Lab Code:	J1600458-012		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:38	01/28/16	
Phenolics, Total Recoverable	420.4	**0.03 IV**	mg/L	0.10	0.01	1	01/29/16 16:27	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E S	**Units:**	ug/L
Lab Code:	J1600458-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 09:58	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 09:58	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 09:58	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 09:58	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 09:58	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 09:58	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 09:58	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 09:58	
Benzene	0.210 U	1.00	0.210	1	01/23/16 09:58	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 09:58	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 09:58	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 09:58	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 09:58	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 09:58	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 09:58	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 09:58	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 09:58	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 09:58	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 09:58	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 09:58	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 09:58	
Tetrachloroethene (PCE)	**0.540 I**	1.00	0.220	1	01/23/16 09:58	
Toluene	0.190 U	1.00	0.190	1	01/23/16 09:58	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 09:58	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 09:58	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 09:58	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 09:58	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 09:58	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	78 - 129	01/23/16 09:58	
Dibromofluoromethane	101	80 - 114	01/23/16 09:58	
Toluene-d8	100	87 - 118	01/23/16 09:58	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E S	**Units:**	ug/L
Lab Code:	J1600458-013	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.35 U	5.15	1.35	1	01/27/16 21:20	1/26/16	
2-Chlorophenol	1.24 U	5.15	1.24	1	01/27/16 21:20	1/26/16	
4-Chloro-3-methylphenol	1.86 U	5.15	1.86	1	01/27/16 21:20	1/26/16	
Acenaphthene	4.33 U	5.15	4.33	1	01/27/16 21:20	1/26/16	
Acenaphthylene	1.03 U	5.15	1.03	1	01/27/16 21:20	1/26/16	
Anthracene	1.65 U	5.15	1.65	1	01/27/16 21:20	1/26/16	
Benzo(a)pyrene	1.24 U	5.15	1.24	1	01/27/16 21:20	1/26/16	
Benzo(b)fluoranthene	1.04 U	5.15	1.04	1	01/27/16 21:20	1/26/16	
Benzo(g,h,i)perylene	1.45 U	5.15	1.45	1	01/27/16 21:20	1/26/16	
Benzo(k)fluoranthene	1.86 U	5.15	1.86	1	01/27/16 21:20	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.55 U	5.15	1.55	1	01/27/16 21:20	1/26/16	
Butyl Benzyl Phthalate	0.887 U	10.3	0.887	1	01/27/16 21:20	1/26/16	
Chrysene	1.24 U	5.15	1.24	1	01/27/16 21:20	1/26/16	
Dibenz(a,h)anthracene	1.55 U	5.15	1.55	1	01/27/16 21:20	1/26/16	
Diethyl Phthalate	1.76 U	5.15	1.76	1	01/27/16 21:20	1/26/16	
Di-n-butyl Phthalate	2.27 U	5.15	2.27	1	01/27/16 21:20	1/26/16	
Fluoranthene	1.45 U	5.15	1.45	1	01/27/16 21:20	1/26/16	
Fluorene	0.866 U	5.15	0.866	1	01/27/16 21:20	1/26/16	
Indeno(1,2,3-cd)pyrene	1.76 U	5.15	1.76	1	01/27/16 21:20	1/26/16	
Isophorone	1.86 U	5.15	1.86	1	01/27/16 21:20	1/26/16	
Naphthalene	0.547 U	5.15	0.547	1	01/27/16 21:20	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.14 U	5.15	1.14	1	01/27/16 21:20	1/26/16	
Phenanthrene	1.45 U	5.15	1.45	1	01/27/16 21:20	1/26/16	
Phenol	0.609 U	5.15	0.609	1	01/27/16 21:20	1/26/16	
Pyrene	0.763 U	5.15	0.763	1	01/27/16 21:20	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	56	33 - 133	01/27/16 21:20	
2-Fluorobiphenyl	57	22 - 105	01/27/16 21:20	
2-Fluorophenol	41	10 - 69	01/27/16 21:20	
Nitrobenzene-d5	56	10 - 123	01/27/16 21:20	
Phenol-d6	34	10 - 59	01/27/16 21:20	
p-Terphenyl-d14	81	28 - 120	01/27/16 21:20	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E S	**Units:**	ug/L
Lab Code:	J1600458-013	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 23:17	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 23:17	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 23:17	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 23:17	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 23:17	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 23:17	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 23:17	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 23:17	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 23:17	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 23:17	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 23:17	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 23:17	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 23:17	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 23:17	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 23:17	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 23:17	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 23:17	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 23:17	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 23:17	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 23:17	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 23:17	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 15:29	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 15:29	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 15:29	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 15:29	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 15:29	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 15:29	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 15:29	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10 - 160	01/25/16 23:17	
Tetrachloro-m-xylene	64	22 - 126	01/25/16 23:17	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E S	**Basis:**	NA
Lab Code:	J1600458-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 16:38	01/26/16	
Arsenic, Total	200.8	**0.7 I**	ug/L	1.0	0.5	1	01/29/16 16:38	01/26/16	
Barium, Total	200.8	**53.0**	ug/L	2.0	0.5	1	01/29/16 16:38	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 16:38	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 16:38	01/26/16	
Chromium, Total	200.8	**0.5 I**	ug/L	1.0	0.2	1	01/29/16 16:38	01/26/16	
Copper, Total	200.8	**0.5 I**	ug/L	1.0	0.3	1	01/29/16 16:38	01/26/16	
Lead, Total	200.8	**0.30 I**	ug/L	0.50	0.12	1	01/29/16 16:38	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:41	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 16:38	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 16:38	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 16:38	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 16:38	01/26/16	
Zinc, Total	200.8	**6.6**	ug/L	5.0	1.6	1	01/29/16 16:38	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E S	**Basis:**	NA
Lab Code:	J1600458-013		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/29/16 14:39	01/28/16	
Phenolics, Total Recoverable	420.4	**0.05**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:28	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E M	**Units:**	ug/L
Lab Code:	J1600458-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 10:22	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 10:22	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 10:22	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 10:22	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 10:22	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 10:22	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 10:22	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 10:22	
Benzene	0.210 U	1.00	0.210	1	01/23/16 10:22	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 10:22	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 10:22	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 10:22	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 10:22	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 10:22	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 10:22	*
Chloroform	0.350 U	1.00	0.350	1	01/23/16 10:22	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 10:22	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 10:22	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 10:22	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 10:22	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 10:22	
Tetrachloroethene (PCE)	**0.490 I**	1.00	0.220	1	01/23/16 10:22	
Toluene	0.190 U	1.00	0.190	1	01/23/16 10:22	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 10:22	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 10:22	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 10:22	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 10:22	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 10:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	78 - 129	01/23/16 10:22	
Dibromofluoromethane	103	80 - 114	01/23/16 10:22	
Toluene-d8	97	87 - 118	01/23/16 10:22	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E M	**Units:**	ug/L
Lab Code:	J1600458-014	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.35 U	5.15	1.35	1	01/27/16 21:46	1/26/16	
2-Chlorophenol	1.24 U	5.15	1.24	1	01/27/16 21:46	1/26/16	
4-Chloro-3-methylphenol	1.86 U	5.15	1.86	1	01/27/16 21:46	1/26/16	
Acenaphthene	4.33 U	5.15	4.33	1	01/27/16 21:46	1/26/16	
Acenaphthylene	1.03 U	5.15	1.03	1	01/27/16 21:46	1/26/16	
Anthracene	1.65 U	5.15	1.65	1	01/27/16 21:46	1/26/16	
Benzo(a)pyrene	1.24 U	5.15	1.24	1	01/27/16 21:46	1/26/16	
Benzo(b)fluoranthene	1.04 U	5.15	1.04	1	01/27/16 21:46	1/26/16	
Benzo(g,h,i)perylene	1.45 U	5.15	1.45	1	01/27/16 21:46	1/26/16	
Benzo(k)fluoranthene	1.86 U	5.15	1.86	1	01/27/16 21:46	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.55 U	5.15	1.55	1	01/27/16 21:46	1/26/16	
Butyl Benzyl Phthalate	0.887 U	10.3	0.887	1	01/27/16 21:46	1/26/16	
Chrysene	1.24 U	5.15	1.24	1	01/27/16 21:46	1/26/16	
Dibenz(a,h)anthracene	1.55 U	5.15	1.55	1	01/27/16 21:46	1/26/16	
Diethyl Phthalate	1.76 U	5.15	1.76	1	01/27/16 21:46	1/26/16	
Di-n-butyl Phthalate	2.27 U	5.15	2.27	1	01/27/16 21:46	1/26/16	
Fluoranthene	1.45 U	5.15	1.45	1	01/27/16 21:46	1/26/16	
Fluorene	0.866 U	5.15	0.866	1	01/27/16 21:46	1/26/16	
Indeno(1,2,3-cd)pyrene	1.76 U	5.15	1.76	1	01/27/16 21:46	1/26/16	
Isophorone	1.86 U	5.15	1.86	1	01/27/16 21:46	1/26/16	
Naphthalene	0.547 U	5.15	0.547	1	01/27/16 21:46	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.14 U	5.15	1.14	1	01/27/16 21:46	1/26/16	
Phenanthrene	1.45 U	5.15	1.45	1	01/27/16 21:46	1/26/16	
Phenol	0.609 U	5.15	0.609	1	01/27/16 21:46	1/26/16	
Pyrene	0.763 U	5.15	0.763	1	01/27/16 21:46	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	56	33 - 133	01/27/16 21:46	
2-Fluorobiphenyl	54	22 - 105	01/27/16 21:46	
2-Fluorophenol	38	10 - 69	01/27/16 21:46	
Nitrobenzene-d5	53	10 - 123	01/27/16 21:46	
Phenol-d6	32	10 - 59	01/27/16 21:46	
p-Terphenyl-d14	76	28 - 120	01/27/16 21:46	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E M	**Units:**	ug/L
Lab Code:	J1600458-014	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 23:34	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 23:34	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 23:34	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 23:34	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 23:34	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 23:34	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 23:34	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 23:34	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 23:34	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 23:34	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 23:34	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 23:34	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 23:34	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 23:34	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 23:34	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 23:34	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 23:34	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 23:34	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 23:34	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 23:34	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 23:34	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 15:44	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 15:44	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 15:44	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 15:44	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 15:44	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 15:44	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 15:44	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 160	01/25/16 23:34	
Tetrachloro-m-xylene	70	22 - 126	01/25/16 23:34	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E M	**Basis:**	NA
Lab Code:	J1600458-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 16:43	01/26/16	
Arsenic, Total	200.8	**1.1**	ug/L	1.0	0.5	1	01/29/16 16:43	01/26/16	
Barium, Total	200.8	**52.7**	ug/L	2.0	0.5	1	01/29/16 16:43	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 16:43	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 16:43	01/26/16	
Chromium, Total	200.8	**0.5 I**	ug/L	1.0	0.2	1	01/29/16 16:43	01/26/16	
Copper, Total	200.8	**0.4 I**	ug/L	1.0	0.3	1	01/29/16 16:43	01/26/16	
Lead, Total	200.8	**0.29 I**	ug/L	0.50	0.12	1	01/29/16 16:43	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/28/16 12:23	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 16:43	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 16:43	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 16:43	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 16:43	01/26/16	
Zinc, Total	200.8	**6.1**	ug/L	5.0	1.6	1	01/29/16 16:43	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:15
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E M	**Basis:**	NA
Lab Code:	J1600458-014		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:40	01/28/16	
Phenolics, Total Recoverable	420.4	**0.05 IV**	mg/L	0.10	0.01	1	01/29/16 16:28	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E B	**Units:**	ug/L
Lab Code:	J1600458-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 12:37	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 12:37	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 12:37	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 12:37	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 12:37	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 12:37	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 12:37	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 12:37	
Benzene	0.210 U	1.00	0.210	1	01/25/16 12:37	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 12:37	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 12:37	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 12:37	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 12:37	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 12:37	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 12:37	*
Chloroform	0.350 U	1.00	0.350	1	01/25/16 12:37	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 12:37	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 12:37	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 12:37	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 12:37	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 12:37	
Tetrachloroethene (PCE)	**0.570 I**	1.00	0.220	1	01/25/16 12:37	
Toluene	0.190 U	1.00	0.190	1	01/25/16 12:37	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 12:37	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 12:37	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 12:37	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 12:37	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 12:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	78 - 129	01/25/16 12:37	
Dibromofluoromethane	101	80 - 114	01/25/16 12:37	
Toluene-d8	98	87 - 118	01/25/16 12:37	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E B	**Units:**	ug/L
Lab Code:	J1600458-015	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.35 U	5.15	1.35	1	01/27/16 22:11	1/26/16	
2-Chlorophenol	1.24 U	5.15	1.24	1	01/27/16 22:11	1/26/16	
4-Chloro-3-methylphenol	1.86 U	5.15	1.86	1	01/27/16 22:11	1/26/16	
Acenaphthene	4.33 U	5.15	4.33	1	01/27/16 22:11	1/26/16	
Acenaphthylene	1.03 U	5.15	1.03	1	01/27/16 22:11	1/26/16	
Anthracene	1.65 U	5.15	1.65	1	01/27/16 22:11	1/26/16	
Benzo(a)pyrene	1.24 U	5.15	1.24	1	01/27/16 22:11	1/26/16	
Benzo(b)fluoranthene	1.04 U	5.15	1.04	1	01/27/16 22:11	1/26/16	
Benzo(g,h,i)perylene	1.45 U	5.15	1.45	1	01/27/16 22:11	1/26/16	
Benzo(k)fluoranthene	1.86 U	5.15	1.86	1	01/27/16 22:11	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.55 U	5.15	1.55	1	01/27/16 22:11	1/26/16	
Butyl Benzyl Phthalate	0.887 U	10.3	0.887	1	01/27/16 22:11	1/26/16	
Chrysene	1.24 U	5.15	1.24	1	01/27/16 22:11	1/26/16	
Dibenz(a,h)anthracene	1.55 U	5.15	1.55	1	01/27/16 22:11	1/26/16	
Diethyl Phthalate	1.76 U	5.15	1.76	1	01/27/16 22:11	1/26/16	
Di-n-butyl Phthalate	2.27 U	5.15	2.27	1	01/27/16 22:11	1/26/16	
Fluoranthene	1.45 U	5.15	1.45	1	01/27/16 22:11	1/26/16	
Fluorene	0.866 U	5.15	0.866	1	01/27/16 22:11	1/26/16	
Indeno(1,2,3-cd)pyrene	1.76 U	5.15	1.76	1	01/27/16 22:11	1/26/16	
Isophorone	1.86 U	5.15	1.86	1	01/27/16 22:11	1/26/16	
Naphthalene	0.547 U	5.15	0.547	1	01/27/16 22:11	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.14 U	5.15	1.14	1	01/27/16 22:11	1/26/16	
Phenanthrene	1.45 U	5.15	1.45	1	01/27/16 22:11	1/26/16	
Phenol	0.609 U	5.15	0.609	1	01/27/16 22:11	1/26/16	
Pyrene	0.763 U	5.15	0.763	1	01/27/16 22:11	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	33 - 133	01/27/16 22:11	
2-Fluorobiphenyl	52	22 - 105	01/27/16 22:11	
2-Fluorophenol	39	10 - 69	01/27/16 22:11	
Nitrobenzene-d5	52	10 - 123	01/27/16 22:11	
Phenol-d6	31	10 - 59	01/27/16 22:11	
p-Terphenyl-d14	83	28 - 120	01/27/16 22:11	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E B	**Units:**	ug/L
Lab Code:	J1600458-015	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103 U	0.0204	0.0103	1	01/25/16 23:50	1/25/16	
4,4'-DDE	0.0103 U	0.0204	0.0103	1	01/25/16 23:50	1/25/16	
4,4'-DDT	0.0123 U	0.0204	0.0123	1	01/25/16 23:50	1/25/16	
Aldrin	0.0174 U	0.0204	0.0174	1	01/25/16 23:50	1/25/16	
alpha-BHC	0.0143 U	0.0204	0.0143	1	01/25/16 23:50	1/25/16	
alpha-Chlordane	0.00817 U	0.0204	0.00817	1	01/25/16 23:50	1/25/16	
beta-BHC	0.0103 U	0.0204	0.0103	1	01/25/16 23:50	1/25/16	
Chlordane	0.265 U	0.265	0.265	1	01/25/16 23:50	1/25/16	
delta-BHC	0.00817 U	0.0204	0.00817	1	01/25/16 23:50	1/25/16	
Dieldrin	0.0113 U	0.0204	0.0113	1	01/25/16 23:50	1/25/16	
Endosulfan I	0.00715 U	0.0204	0.00715	1	01/25/16 23:50	1/25/16	
Endosulfan II	0.0103 U	0.0204	0.0103	1	01/25/16 23:50	1/25/16	
Endosulfan Sulfate	0.00715 U	0.0204	0.00715	1	01/25/16 23:50	1/25/16	
Endrin	0.00919 U	0.0204	0.00919	1	01/25/16 23:50	1/25/16	
Endrin Aldehyde	0.00817 U	0.0204	0.00817	1	01/25/16 23:50	1/25/16	
Endrin Ketone	0.00919 U	0.0204	0.00919	1	01/25/16 23:50	1/25/16	
gamma-BHC (Lindane)	0.0133 U	0.0204	0.0133	1	01/25/16 23:50	1/25/16	
gamma-Chlordane	0.0113 U	0.0204	0.0113	1	01/25/16 23:50	1/25/16	
Heptachlor	0.0154 U	0.0204	0.0154	1	01/25/16 23:50	1/25/16	
Heptachlor Epoxide	0.0103 U	0.0204	0.0103	1	01/25/16 23:50	1/25/16	
Methoxychlor	0.00919 U	0.0204	0.00919	1	01/25/16 23:50	1/25/16	
Toxaphene	0.262 U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133 U	0.510	0.133	1	01/26/16 16:00	1/25/16	
Aroclor 1221	0.296 U	0.510	0.296	1	01/26/16 16:00	1/25/16	
Aroclor 1232	0.205 U	0.510	0.205	1	01/26/16 16:00	1/25/16	
Aroclor 1242	0.133 U	0.510	0.133	1	01/26/16 16:00	1/25/16	
Aroclor 1248	0.266 U	0.510	0.266	1	01/26/16 16:00	1/25/16	
Aroclor 1254	0.337 U	0.510	0.337	1	01/26/16 16:00	1/25/16	
Aroclor 1260	0.273 U	0.510	0.273	1	01/26/16 16:00	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	56	10 - 160	01/25/16 23:50	
Tetrachloro-m-xylene	65	22 - 126	01/25/16 23:50	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E B	**Basis:**	NA
Lab Code:	J1600458-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 16:59	01/26/16	
Arsenic, Total	200.8	0.5 U	ug/L	1.0	0.5	1	01/29/16 16:59	01/26/16	
Barium, Total	200.8	**51.0**	ug/L	2.0	0.5	1	01/29/16 16:59	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 16:59	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 16:59	01/26/16	
Chromium, Total	200.8	**0.3 I**	ug/L	1.0	0.2	1	01/29/16 16:59	01/26/16	
Copper, Total	200.8	**0.4 I**	ug/L	1.0	0.3	1	01/29/16 16:59	01/26/16	
Lead, Total	200.8	**0.30 I**	ug/L	0.50	0.12	1	01/29/16 16:59	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:44	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 16:59	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 16:59	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 16:59	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 16:59	01/26/16	
Zinc, Total	200.8	**7.2**	ug/L	5.0	1.6	1	01/29/16 16:59	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 10:30
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-E B	**Basis:**	NA
Lab Code:	J1600458-015		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/29/16 14:46	01/28/16	
Phenolics, Total Recoverable	420.4	**0.04**	**IV**	mg/L	0.10	0.01	1	01/29/16 16:29	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:10
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W S	**Units:**	ug/L
Lab Code:	J1600458-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 13:01	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 13:01	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 13:01	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 13:01	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 13:01	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 13:01	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 13:01	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 13:01	
Benzene	0.210 U	1.00	0.210	1	01/25/16 13:01	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 13:01	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 13:01	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 13:01	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 13:01	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 13:01	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 13:01	*
Chloroform	0.350 U	1.00	0.350	1	01/25/16 13:01	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 13:01	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 13:01	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 13:01	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 13:01	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 13:01	
Tetrachloroethene (PCE)	**0.660 I**	1.00	0.220	1	01/25/16 13:01	
Toluene	0.190 U	1.00	0.190	1	01/25/16 13:01	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 13:01	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 13:01	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 13:01	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 13:01	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 13:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	78 - 129	01/25/16 13:01	
Dibromofluoromethane	101	80 - 114	01/25/16 13:01	
Toluene-d8	99	87 - 118	01/25/16 13:01	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:10
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W S	**Units:**	ug/L
Lab Code:	J1600458-016	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 22:36	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 22:36	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 22:36	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 22:36	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 22:36	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 22:36	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 22:36	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 22:36	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 22:36	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 22:36	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 22:36	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 22:36	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 22:36	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 22:36	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 22:36	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 22:36	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 22:36	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 22:36	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 22:36	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 22:36	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 22:36	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 22:36	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 22:36	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 22:36	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 22:36	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	64	33 - 133	01/27/16 22:36	
2-Fluorobiphenyl	49	22 - 105	01/27/16 22:36	
2-Fluorophenol	35	10 - 69	01/27/16 22:36	
Nitrobenzene-d5	50	10 - 123	01/27/16 22:36	
Phenol-d6	28	10 - 59	01/27/16 22:36	
p-Terphenyl-d14	88	28 - 120	01/27/16 22:36	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:10
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W S	**Units:**	ug/L
Lab Code:	J1600458-016	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/26/16 00:06	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/26/16 00:06	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/26/16 00:06	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/26/16 00:06	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/26/16 00:06	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/26/16 00:06	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/26/16 00:06	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/26/16 00:06	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/26/16 00:06	1/25/16	
Dieldrin	**0.0136**	**I**	0.0204	0.0113	1	01/26/16 00:06	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/26/16 00:06	1/25/16	
Endosulfan II	0.0103	U	0.0204	0.0103	1	01/26/16 00:06	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/26/16 00:06	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/26/16 00:06	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/26/16 00:06	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/26/16 00:06	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/26/16 00:06	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/26/16 00:06	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/26/16 00:06	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/26/16 00:06	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/26/16 00:06	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 16:15	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 16:15	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 16:15	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 16:15	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 16:15	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 16:15	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 16:15	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 160	01/26/16 00:06	
Tetrachloro-m-xylene	73	22 - 126	01/26/16 00:06	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:10
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W S	**Basis:**	NA
Lab Code:	J1600458-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 17:05	01/26/16	
Arsenic, Total	200.8	**0.5 I**	ug/L	1.0	0.5	1	01/29/16 17:05	01/26/16	
Barium, Total	200.8	**52.0**	ug/L	2.0	0.5	1	01/29/16 17:05	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 17:05	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 17:05	01/26/16	
Chromium, Total	200.8	**0.3 I**	ug/L	1.0	0.2	1	01/29/16 17:05	01/26/16	
Copper, Total	200.8	**0.4 I**	ug/L	1.0	0.3	1	01/29/16 17:05	01/26/16	
Lead, Total	200.8	**0.26 I**	ug/L	0.50	0.12	1	01/29/16 17:05	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:45	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 17:05	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 17:05	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 17:05	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 17:05	01/26/16	
Zinc, Total	200.8	**5.8**	ug/L	5.0	1.6	1	01/29/16 17:05	01/26/16	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:10
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W S	**Basis:**	NA
Lab Code:	J1600458-016		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:47	01/28/16	
Phenolics, Total Recoverable	420.4	**0.03 IV**	mg/L	0.10	0.01	1	01/29/16 16:30	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W M	**Units:**	ug/L
Lab Code:	J1600458-017	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 13:24	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 13:24	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 13:24	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 13:24	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 13:24	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 13:24	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 13:24	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 13:24	
Benzene	0.210 U	1.00	0.210	1	01/25/16 13:24	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 13:24	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 13:24	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 13:24	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 13:24	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 13:24	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 13:24	*
Chloroform	0.350 U	1.00	0.350	1	01/25/16 13:24	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 13:24	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 13:24	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 13:24	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 13:24	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 13:24	
Tetrachloroethene (PCE)	**0.580 I**	1.00	0.220	1	01/25/16 13:24	
Toluene	0.190 U	1.00	0.190	1	01/25/16 13:24	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 13:24	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 13:24	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 13:24	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 13:24	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 13:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	78 - 129	01/25/16 13:24	
Dibromofluoromethane	99	80 - 114	01/25/16 13:24	
Toluene-d8	100	87 - 118	01/25/16 13:24	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W M	**Units:**	ug/L
Lab Code:	J1600458-017	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 23:01	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 23:01	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 23:01	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 23:01	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 23:01	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 23:01	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 23:01	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 23:01	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 23:01	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 23:01	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 23:01	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 23:01	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 23:01	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 23:01	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 23:01	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 23:01	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 23:01	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 23:01	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 23:01	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 23:01	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 23:01	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 23:01	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 23:01	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 23:01	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 23:01	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	58	33 - 133	01/27/16 23:01	
2-Fluorobiphenyl	48	22 - 105	01/27/16 23:01	
2-Fluorophenol	35	10 - 69	01/27/16 23:01	
Nitrobenzene-d5	47	10 - 123	01/27/16 23:01	
Phenol-d6	28	10 - 59	01/27/16 23:01	
p-Terphenyl-d14	81	28 - 120	01/27/16 23:01	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W M	**Units:**	ug/L
Lab Code:	J1600458-017	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0103	U	0.0204	0.0103	1	01/26/16 00:23	1/25/16	
4,4'-DDE	0.0103	U	0.0204	0.0103	1	01/26/16 00:23	1/25/16	
4,4'-DDT	0.0123	U	0.0204	0.0123	1	01/26/16 00:23	1/25/16	
Aldrin	0.0174	U	0.0204	0.0174	1	01/26/16 00:23	1/25/16	
alpha-BHC	0.0143	U	0.0204	0.0143	1	01/26/16 00:23	1/25/16	
alpha-Chlordane	0.00817	U	0.0204	0.00817	1	01/26/16 00:23	1/25/16	
beta-BHC	0.0103	U	0.0204	0.0103	1	01/26/16 00:23	1/25/16	
Chlordane	0.265	U	0.265	0.265	1	01/26/16 00:23	1/25/16	
delta-BHC	0.00817	U	0.0204	0.00817	1	01/26/16 00:23	1/25/16	
Dieldrin	**0.0124**	**I**	0.0204	0.0113	1	01/26/16 00:23	1/25/16	
Endosulfan I	0.00715	U	0.0204	0.00715	1	01/26/16 00:23	1/25/16	
Endosulfan II	0.0103	U	0.0204	0.0103	1	01/26/16 00:23	1/25/16	
Endosulfan Sulfate	0.00715	U	0.0204	0.00715	1	01/26/16 00:23	1/25/16	
Endrin	0.00919	U	0.0204	0.00919	1	01/26/16 00:23	1/25/16	
Endrin Aldehyde	0.00817	U	0.0204	0.00817	1	01/26/16 00:23	1/25/16	
Endrin Ketone	0.00919	U	0.0204	0.00919	1	01/26/16 00:23	1/25/16	
gamma-BHC (Lindane)	0.0133	U	0.0204	0.0133	1	01/26/16 00:23	1/25/16	
gamma-Chlordane	0.0113	U	0.0204	0.0113	1	01/26/16 00:23	1/25/16	
Heptachlor	0.0154	U	0.0204	0.0154	1	01/26/16 00:23	1/25/16	
Heptachlor Epoxide	0.0103	U	0.0204	0.0103	1	01/26/16 00:23	1/25/16	
Methoxychlor	0.00919	U	0.0204	0.00919	1	01/26/16 00:23	1/25/16	
Toxaphene	0.262	U	0.262	0.262	1	01/27/16	1/25/16	
Aroclor 1016	0.133	U	0.510	0.133	1	01/26/16 16:31	1/25/16	
Aroclor 1221	0.296	U	0.510	0.296	1	01/26/16 16:31	1/25/16	
Aroclor 1232	0.205	U	0.510	0.205	1	01/26/16 16:31	1/25/16	
Aroclor 1242	0.133	U	0.510	0.133	1	01/26/16 16:31	1/25/16	
Aroclor 1248	0.266	U	0.510	0.266	1	01/26/16 16:31	1/25/16	
Aroclor 1254	0.337	U	0.510	0.337	1	01/26/16 16:31	1/25/16	
Aroclor 1260	0.273	U	0.510	0.273	1	01/26/16 16:31	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	10 - 160	01/26/16 00:23	
Tetrachloro-m-xylene	75	22 - 126	01/26/16 00:23	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W M	**Basis:**	NA
Lab Code:	J1600458-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 17:10	01/26/16	
Arsenic, Total	200.8	0.5 U	ug/L	1.0	0.5	1	01/29/16 17:10	01/26/16	
Barium, Total	200.8	**49.5**	ug/L	2.0	0.5	1	01/29/16 17:10	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 17:10	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 17:10	01/26/16	
Chromium, Total	200.8	**0.4 I**	ug/L	1.0	0.2	1	01/29/16 17:10	01/26/16	
Copper, Total	200.8	**0.3 I**	ug/L	1.0	0.3	1	01/29/16 17:10	01/26/16	
Lead, Total	200.8	**0.26 I**	ug/L	0.50	0.12	1	01/29/16 17:10	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:47	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 17:10	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 17:10	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 17:10	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 17:10	01/26/16	
Zinc, Total	200.8	**5.6**	ug/L	5.0	1.6	1	01/29/16 17:10	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:25
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W M	**Basis:**	NA
Lab Code:	J1600458-017		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:48	01/28/16	
Phenolics, Total Recoverable	420.4	**0.07 IV**	mg/L	0.10	0.01	1	01/29/16 16:30	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W B	**Units:**	ug/L
Lab Code:	J1600458-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 13:50	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 13:50	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 13:50	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 13:50	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 13:50	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 13:50	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 13:50	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 13:50	
Benzene	0.210 U	1.00	0.210	1	01/25/16 13:50	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 13:50	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 13:50	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 13:50	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 13:50	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 13:50	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 13:50	*
Chloroform	0.350 U	1.00	0.350	1	01/25/16 13:50	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 13:50	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 13:50	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 13:50	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 13:50	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 13:50	
Tetrachloroethene (PCE)	**0.780 I**	1.00	0.220	1	01/25/16 13:50	
Toluene	0.190 U	1.00	0.190	1	01/25/16 13:50	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 13:50	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 13:50	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 13:50	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 13:50	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 13:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	78 - 129	01/25/16 13:50	
Dibromofluoromethane	102	80 - 114	01/25/16 13:50	
Toluene-d8	99	87 - 118	01/25/16 13:50	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W B	**Units:**	ug/L
Lab Code:	J1600458-018	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.33 U	5.10	1.33	1	01/27/16 23:27	1/26/16	
2-Chlorophenol	1.23 U	5.10	1.23	1	01/27/16 23:27	1/26/16	
4-Chloro-3-methylphenol	1.84 U	5.10	1.84	1	01/27/16 23:27	1/26/16	
Acenaphthene	4.29 U	5.10	4.29	1	01/27/16 23:27	1/26/16	
Acenaphthylene	1.02 U	5.10	1.02	1	01/27/16 23:27	1/26/16	
Anthracene	1.64 U	5.10	1.64	1	01/27/16 23:27	1/26/16	
Benzo(a)pyrene	1.23 U	5.10	1.23	1	01/27/16 23:27	1/26/16	
Benzo(b)fluoranthene	1.03 U	5.10	1.03	1	01/27/16 23:27	1/26/16	
Benzo(g,h,i)perylene	1.43 U	5.10	1.43	1	01/27/16 23:27	1/26/16	
Benzo(k)fluoranthene	1.84 U	5.10	1.84	1	01/27/16 23:27	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.54 U	5.10	1.54	1	01/27/16 23:27	1/26/16	
Butyl Benzyl Phthalate	0.878 U	10.2	0.878	1	01/27/16 23:27	1/26/16	
Chrysene	1.23 U	5.10	1.23	1	01/27/16 23:27	1/26/16	
Dibenz(a,h)anthracene	1.54 U	5.10	1.54	1	01/27/16 23:27	1/26/16	
Diethyl Phthalate	1.74 U	5.10	1.74	1	01/27/16 23:27	1/26/16	
Di-n-butyl Phthalate	2.25 U	5.10	2.25	1	01/27/16 23:27	1/26/16	
Fluoranthene	1.43 U	5.10	1.43	1	01/27/16 23:27	1/26/16	
Fluorene	0.858 U	5.10	0.858	1	01/27/16 23:27	1/26/16	
Indeno(1,2,3-cd)pyrene	1.74 U	5.10	1.74	1	01/27/16 23:27	1/26/16	
Isophorone	1.84 U	5.10	1.84	1	01/27/16 23:27	1/26/16	
Naphthalene	0.541 U	5.10	0.541	1	01/27/16 23:27	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.13 U	5.10	1.13	1	01/27/16 23:27	1/26/16	
Phenanthrene	1.43 U	5.10	1.43	1	01/27/16 23:27	1/26/16	
Phenol	0.603 U	5.10	0.603	1	01/27/16 23:27	1/26/16	
Pyrene	0.756 U	5.10	0.756	1	01/27/16 23:27	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	33 - 133	01/27/16 23:27	
2-Fluorobiphenyl	50	22 - 105	01/27/16 23:27	
2-Fluorophenol	35	10 - 69	01/27/16 23:27	
Nitrobenzene-d5	49	10 - 123	01/27/16 23:27	
Phenol-d6	29	10 - 59	01/27/16 23:27	
p-Terphenyl-d14	86	28 - 120	01/27/16 23:27	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W B	**Units:**	ug/L
Lab Code:	J1600458-018	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result		PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0105	U	0.0208	0.0105	1	01/26/16 00:39	1/25/16	
4,4'-DDE	0.0105	U	0.0208	0.0105	1	01/26/16 00:39	1/25/16	
4,4'-DDT	0.0125	U	0.0208	0.0125	1	01/26/16 00:39	1/25/16	
Aldrin	0.0178	U	0.0208	0.0178	1	01/26/16 00:39	1/25/16	
alpha-BHC	0.0146	U	0.0208	0.0146	1	01/26/16 00:39	1/25/16	
alpha-Chlordane	0.00834	U	0.0208	0.00834	1	01/26/16 00:39	1/25/16	
beta-BHC	0.0105	U	0.0208	0.0105	1	01/26/16 00:39	1/25/16	
Chlordane	0.270	U	0.270	0.270	1	01/26/16 00:39	1/25/16	
delta-BHC	0.00834	U	0.0208	0.00834	1	01/26/16 00:39	1/25/16	
Dieldrin	**0.0138**	**I**	0.0208	0.0115	1	01/26/16 00:39	1/25/16	
Endosulfan I	0.00730	U	0.0208	0.00730	1	01/26/16 00:39	1/25/16	
Endosulfan II	0.0105	U	0.0208	0.0105	1	01/26/16 00:39	1/25/16	
Endosulfan Sulfate	0.00730	U	0.0208	0.00730	1	01/26/16 00:39	1/25/16	
Endrin	0.00938	U	0.0208	0.00938	1	01/26/16 00:39	1/25/16	
Endrin Aldehyde	0.00834	U	0.0208	0.00834	1	01/26/16 00:39	1/25/16	
Endrin Ketone	0.00938	U	0.0208	0.00938	1	01/26/16 00:39	1/25/16	
gamma-BHC (Lindane)	0.0136	U	0.0208	0.0136	1	01/26/16 00:39	1/25/16	
gamma-Chlordane	0.0115	U	0.0208	0.0115	1	01/26/16 00:39	1/25/16	
Heptachlor	0.0157	U	0.0208	0.0157	1	01/26/16 00:39	1/25/16	
Heptachlor Epoxide	0.0105	U	0.0208	0.0105	1	01/26/16 00:39	1/25/16	
Methoxychlor	0.00938	U	0.0208	0.00938	1	01/26/16 00:39	1/25/16	
Toxaphene	0.267	U	0.267	0.267	1	01/27/16	1/25/16	
Aroclor 1016	0.136	U	0.521	0.136	1	01/26/16 16:46	1/25/16	
Aroclor 1221	0.303	U	0.521	0.303	1	01/26/16 16:46	1/25/16	
Aroclor 1232	0.209	U	0.521	0.209	1	01/26/16 16:46	1/25/16	
Aroclor 1242	0.136	U	0.521	0.136	1	01/26/16 16:46	1/25/16	
Aroclor 1248	0.271	U	0.521	0.271	1	01/26/16 16:46	1/25/16	
Aroclor 1254	0.344	U	0.521	0.344	1	01/26/16 16:46	1/25/16	
Aroclor 1260	0.279	U	0.521	0.279	1	01/26/16 16:46	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 160	01/26/16 00:39	
Tetrachloro-m-xylene	81	22 - 126	01/26/16 00:39	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W B	**Basis:**	NA
Lab Code:	J1600458-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2 U	ug/L	1.0	0.2	1	01/29/16 17:15	01/26/16	
Arsenic, Total	200.8	0.5 U	ug/L	1.0	0.5	1	01/29/16 17:15	01/26/16	
Barium, Total	200.8	**51.5**	ug/L	2.0	0.5	1	01/29/16 17:15	01/26/16	
Beryllium, Total	200.8	0.50 U	ug/L	0.50	0.04	1	01/29/16 17:15	01/26/16	
Cadmium, Total	200.8	0.10 U	ug/L	0.40	0.10	1	01/29/16 17:15	01/26/16	
Chromium, Total	200.8	**0.3 I**	ug/L	1.0	0.2	1	01/29/16 17:15	01/26/16	
Copper, Total	200.8	**0.4 I**	ug/L	1.0	0.3	1	01/29/16 17:15	01/26/16	
Lead, Total	200.8	**0.26 I**	ug/L	0.50	0.12	1	01/29/16 17:15	01/26/16	
Mercury, Total	245.1	0.02 U	ug/L	0.10	0.02	1	01/27/16 17:48	01/27/16	
Nickel, Total	200.8	0.5 U	ug/L	2.0	0.5	1	01/29/16 17:15	01/26/16	
Selenium, Total	200.8	1.1 U	ug/L	2.0	1.1	1	01/29/16 17:15	01/26/16	
Silver, Total	200.8	0.06 U	ug/L	0.50	0.06	1	01/29/16 17:15	01/26/16	
Thallium, Total	200.8	0.05 U	ug/L	0.20	0.05	1	01/29/16 17:15	01/26/16	
Zinc, Total	200.8	**6.3**	ug/L	5.0	1.6	1	01/29/16 17:15	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 11:40
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	NE-W B	**Basis:**	NA
Lab Code:	J1600458-018		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:49	01/28/16	
Phenolics, Total Recoverable	420.4	**0.06 IV**	mg/L	0.10	0.01	1	01/29/16 16:34	01/29/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16 00:00
Sample Matrix:	Water	**Date Received:**	01/21/16 13:00
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	J1600458-019	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 12:13	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 12:13	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 12:13	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 12:13	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 12:13	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 12:13	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 12:13	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 12:13	
Benzene	0.210 U	1.00	0.210	1	01/25/16 12:13	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 12:13	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 12:13	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 12:13	*
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 12:13	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 12:13	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 12:13	*
Chloroform	0.350 U	1.00	0.350	1	01/25/16 12:13	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 12:13	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 12:13	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 12:13	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 12:13	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 12:13	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/25/16 12:13	
Toluene	0.190 U	1.00	0.190	1	01/25/16 12:13	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 12:13	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 12:13	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 12:13	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 12:13	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 12:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	78 - 129	01/25/16 12:13	
Dibromofluoromethane	100	80 - 114	01/25/16 12:13	
Toluene-d8	101	87 - 118	01/25/16 12:13	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1600608-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/23/16 02:29	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/23/16 02:29	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/23/16 02:29	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/23/16 02:29	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/23/16 02:29	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/23/16 02:29	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/23/16 02:29	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/23/16 02:29	
Benzene	0.210 U	1.00	0.210	1	01/23/16 02:29	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/23/16 02:29	
Bromoform	0.420 U	2.00	0.420	1	01/23/16 02:29	
Bromomethane	0.230 U	1.00	0.230	1	01/23/16 02:29	
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/23/16 02:29	
Chlorobenzene	0.160 U	1.00	0.160	1	01/23/16 02:29	
Chloroethane	0.520 U	5.00	0.520	1	01/23/16 02:29	
Chloroform	0.350 U	1.00	0.350	1	01/23/16 02:29	
Chloromethane	0.360 U	1.00	0.360	1	01/23/16 02:29	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/23/16 02:29	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/23/16 02:29	
Ethylbenzene	0.210 U	1.00	0.210	1	01/23/16 02:29	
Methylene Chloride	0.210 U	5.00	0.210	1	01/23/16 02:29	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/23/16 02:29	
Toluene	0.190 U	1.00	0.190	1	01/23/16 02:29	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/23/16 02:29	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/23/16 02:29	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/23/16 02:29	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/23/16 02:29	
Xylenes, Total	0.550 U	3.00	0.550	1	01/23/16 02:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	78 - 129	01/23/16 02:29	
Dibromofluoromethane	94	80 - 114	01/23/16 02:29	
Toluene-d8	101	87 - 118	01/23/16 02:29	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1600628-05	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 624

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.170 U	1.00	0.170	1	01/25/16 11:49	
1,1,2,2-Tetrachloroethane	0.290 U	1.00	0.290	1	01/25/16 11:49	
1,1,2-Trichloroethane	0.400 U	1.00	0.400	1	01/25/16 11:49	
1,1-Dichloroethane (1,1-DCA)	0.300 U	1.00	0.300	1	01/25/16 11:49	
1,1-Dichloroethene (1,1-DCE)	0.160 U	1.00	0.160	1	01/25/16 11:49	
1,2-Dichloroethane	0.220 U	1.00	0.220	1	01/25/16 11:49	
1,2-Dichloropropane	0.190 U	1.00	0.190	1	01/25/16 11:49	
2-Chloroethyl Vinyl Ether	2.20 U	25.0	2.20	1	01/25/16 11:49	
Benzene	0.210 U	1.00	0.210	1	01/25/16 11:49	
Bromodichloromethane	0.220 U	1.00	0.220	1	01/25/16 11:49	
Bromoform	0.420 U	2.00	0.420	1	01/25/16 11:49	
Bromomethane	0.230 U	1.00	0.230	1	01/25/16 11:49	
Carbon Tetrachloride	0.340 U	1.00	0.340	1	01/25/16 11:49	
Chlorobenzene	0.160 U	1.00	0.160	1	01/25/16 11:49	
Chloroethane	0.520 U	5.00	0.520	1	01/25/16 11:49	
Chloroform	0.350 U	1.00	0.350	1	01/25/16 11:49	
Chloromethane	0.360 U	1.00	0.360	1	01/25/16 11:49	
cis-1,3-Dichloropropene	0.200 U	1.00	0.200	1	01/25/16 11:49	
Dibromochloromethane	0.210 U	1.00	0.210	1	01/25/16 11:49	
Ethylbenzene	0.210 U	1.00	0.210	1	01/25/16 11:49	
Methylene Chloride	0.210 U	5.00	0.210	1	01/25/16 11:49	
Tetrachloroethene (PCE)	0.220 U	1.00	0.220	1	01/25/16 11:49	
Toluene	0.190 U	1.00	0.190	1	01/25/16 11:49	
trans-1,2-Dichloroethene	0.190 U	1.00	0.190	1	01/25/16 11:49	
trans-1,3-Dichloropropene	0.230 U	1.00	0.230	1	01/25/16 11:49	
Trichloroethene (TCE)	0.360 U	1.00	0.360	1	01/25/16 11:49	
Vinyl Chloride	0.360 U	1.00	0.360	1	01/25/16 11:49	
Xylenes, Total	0.550 U	3.00	0.550	1	01/25/16 11:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	78 - 129	01/25/16 11:49	
Dibromofluoromethane	101	80 - 114	01/25/16 11:49	
Toluene-d8	98	87 - 118	01/25/16 11:49	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1600640-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4-Dinitrotoluene	1.30 U	5.00	1.30	1	01/27/16 14:07	1/26/16	
2-Chlorophenol	1.20 U	5.00	1.20	1	01/27/16 14:07	1/26/16	
4-Chloro-3-methylphenol	1.80 U	5.00	1.80	1	01/27/16 14:07	1/26/16	
Acenaphthene	4.20 U	5.00	4.20	1	01/27/16 14:07	1/26/16	
Acenaphthylene	0.990 U	5.00	0.990	1	01/27/16 14:07	1/26/16	
Anthracene	1.60 U	5.00	1.60	1	01/27/16 14:07	1/26/16	
Benzo(a)pyrene	1.20 U	5.00	1.20	1	01/27/16 14:07	1/26/16	
Benzo(b)fluoranthene	1.00 U	5.00	1.00	1	01/27/16 14:07	1/26/16	
Benzo(g,h,i)perylene	1.40 U	5.00	1.40	1	01/27/16 14:07	1/26/16	
Benzo(k)fluoranthene	1.80 U	5.00	1.80	1	01/27/16 14:07	1/26/16	
Bis(2-ethylhexyl) Phthalate	1.50 U	5.00	1.50	1	01/27/16 14:07	1/26/16	
Butyl Benzyl Phthalate	0.860 U	10.0	0.860	1	01/27/16 14:07	1/26/16	
Chrysene	1.20 U	5.00	1.20	1	01/27/16 14:07	1/26/16	
Dibenz(a,h)anthracene	1.50 U	5.00	1.50	1	01/27/16 14:07	1/26/16	
Diethyl Phthalate	1.70 U	5.00	1.70	1	01/27/16 14:07	1/26/16	
Di-n-butyl Phthalate	2.20 U	5.00	2.20	1	01/27/16 14:07	1/26/16	
Fluoranthene	1.40 U	5.00	1.40	1	01/27/16 14:07	1/26/16	
Fluorene	0.840 U	5.00	0.840	1	01/27/16 14:07	1/26/16	
Indeno(1,2,3-cd)pyrene	1.70 U	5.00	1.70	1	01/27/16 14:07	1/26/16	
Isophorone	1.80 U	5.00	1.80	1	01/27/16 14:07	1/26/16	
Naphthalene	0.530 U	5.00	0.530	1	01/27/16 14:07	1/26/16	
n-Nitrosodiphenylamine / Diphenylamine	1.10 U	5.00	1.10	1	01/27/16 14:07	1/26/16	
Phenanthrene	1.40 U	5.00	1.40	1	01/27/16 14:07	1/26/16	
Phenol	0.590 U	5.00	0.590	1	01/27/16 14:07	1/26/16	
Pyrene	0.740 U	5.00	0.740	1	01/27/16 14:07	1/26/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	73	33 - 133	01/27/16 14:07	
2-Fluorobiphenyl	75	22 - 105	01/27/16 14:07	
2-Fluorophenol	59	10 - 69	01/27/16 14:07	
Nitrobenzene-d5	76	10 - 123	01/27/16 14:07	
Phenol-d6	47	10 - 59	01/27/16 14:07	
p-Terphenyl-d14	87	28 - 120	01/27/16 14:07	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	JQ1600593-01	**Basis:**	NA

Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.0100 U	0.0200	0.0100	1	01/25/16 18:03	1/25/16	
4,4'-DDE	0.0100 U	0.0200	0.0100	1	01/25/16 18:03	1/25/16	
4,4'-DDT	0.0120 U	0.0200	0.0120	1	01/25/16 18:03	1/25/16	
Aldrin	0.0170 U	0.0200	0.0170	1	01/25/16 18:03	1/25/16	
alpha-BHC	0.0140 U	0.0200	0.0140	1	01/25/16 18:03	1/25/16	
alpha-Chlordane	0.00800 U	0.0200	0.00800	1	01/25/16 18:03	1/25/16	
beta-BHC	0.0100 U	0.0200	0.0100	1	01/25/16 18:03	1/25/16	
Chlordane	0.259 U	0.259	0.259	1	01/25/16 18:03	1/25/16	
delta-BHC	0.00800 U	0.0200	0.00800	1	01/25/16 18:03	1/25/16	
Dieldrin	0.0110 U	0.0200	0.0110	1	01/25/16 18:03	1/25/16	
Endosulfan I	0.00700 U	0.0200	0.00700	1	01/25/16 18:03	1/25/16	
Endosulfan II	0.0100 U	0.0200	0.0100	1	01/25/16 18:03	1/25/16	
Endosulfan Sulfate	0.00700 U	0.0200	0.00700	1	01/25/16 18:03	1/25/16	
Endrin	0.00900 U	0.0200	0.00900	1	01/25/16 18:03	1/25/16	
Endrin Aldehyde	0.00800 U	0.0200	0.00800	1	01/25/16 18:03	1/25/16	
Endrin Ketone	0.00900 U	0.0200	0.00900	1	01/25/16 18:03	1/25/16	
gamma-BHC (Lindane)	0.0130 U	0.0200	0.0130	1	01/25/16 18:03	1/25/16	
gamma-Chlordane	0.0110 U	0.0200	0.0110	1	01/25/16 18:03	1/25/16	
Heptachlor	0.0150 U	0.0200	0.0150	1	01/25/16 18:03	1/25/16	
Heptachlor Epoxide	0.0100 U	0.0200	0.0100	1	01/25/16 18:03	1/25/16	
Methoxychlor	0.00900 U	0.0200	0.00900	1	01/25/16 18:03	1/25/16	
Toxaphene	0.256 U	0.256	0.256	1	01/26/16	1/25/16	
Aroclor 1016	0.130 U	0.500	0.130	1	01/26/16 11:07	1/25/16	
Aroclor 1221	0.290 U	0.500	0.290	1	01/26/16 11:07	1/25/16	
Aroclor 1232	0.200 U	0.500	0.200	1	01/26/16 11:07	1/25/16	
Aroclor 1242	0.130 U	0.500	0.130	1	01/26/16 11:07	1/25/16	
Aroclor 1248	0.260 U	0.500	0.260	1	01/26/16 11:07	1/25/16	
Aroclor 1254	0.330 U	0.500	0.330	1	01/26/16 11:07	1/25/16	
Aroclor 1260	0.267 U	0.500	0.267	1	01/26/16 11:07	1/25/16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	67	10 - 160	01/25/16 18:03	
Tetrachloro-m-xylene	72	22 - 126	01/25/16 18:03	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1600458-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	200.8	0.2	U	ug/L	1.0	0.2	1	01/29/16 14:50	01/26/16	
Arsenic, Total	200.8	0.5	U	ug/L	1.0	0.5	1	01/29/16 14:50	01/26/16	
Barium, Total	200.8	0.5	U	ug/L	2.0	0.5	1	01/29/16 14:50	01/26/16	
Beryllium, Total	200.8	0.50	U	ug/L	0.50	0.04	1	01/29/16 14:50	01/26/16	
Cadmium, Total	200.8	0.10	U	ug/L	0.40	0.10	1	01/29/16 14:50	01/26/16	
Chromium, Total	200.8	**0.3**	**I**	ug/L	1.0	0.2	1	01/29/16 14:50	01/26/16	
Copper, Total	200.8	0.3	U	ug/L	1.0	0.3	1	01/29/16 14:50	01/26/16	
Lead, Total	200.8	0.12	U	ug/L	0.50	0.12	1	01/29/16 14:50	01/26/16	
Mercury, Total	245.1	0.02	U	ug/L	0.10	0.02	1	01/27/16 16:18	01/27/16	
Nickel, Total	200.8	0.5	U	ug/L	2.0	0.5	1	01/29/16 14:50	01/26/16	
Selenium, Total	200.8	1.1	U	ug/L	2.0	1.1	1	01/29/16 14:50	01/26/16	
Silver, Total	200.8	0.06	U	ug/L	0.50	0.06	1	01/29/16 14:50	01/26/16	
Thallium, Total	200.8	0.05	U	ug/L	0.20	0.05	1	01/29/16 14:50	01/26/16	
Zinc, Total	200.8	1.6	U	ug/L	5.0	1.6	1	01/29/16 14:50	01/26/16	

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1600458-MB1		

General Chemistry Parameters

Analyte Name	Analysis Method	Result		Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3	U	ug/L	10	3	1	01/26/16 15:53	01/25/16	
Phenolics, Total Recoverable	420.4	**0.03**	**I**	mg/L	0.10	0.01	1	01/29/16 16:15	01/29/16	

Analytical Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J1600458-MB2		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cyanide, Total	SM 4500-CN- E	3 U	ug/L	10	3	1	01/29/16 14:29	01/28/16	

Client: Escambia County **Service Request:** J1600458
Project: Jackson Lakes
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 624

Sample Name	Lab Code	4-Bromofluorobenzene 78 - 129	Dibromofluoromethane 80 - 114	Toluene-d8 87 - 118
SW-W S	J1600458-001	95	99	101
SW-W M	J1600458-002	96	99	100
SW-W B	J1600458-003	93	97	99
SW-E S	J1600458-004	94	97	99
SW-E M	J1600458-005	94	99	100
SW-E B	J1600458-006	93	99	101
SE-E S	J1600458-007	96	99	100
SE-E M	J1600458-008	95	100	101
SE-E B	J1600458-009	92	100	97
SE-W S	J1600458-010	95	100	99
SE-E M	J1600458-011	94	102	99
SE-W B	J1600458-012	92	100	98
NE-E S	J1600458-013	93	101	100
NE-E M	J1600458-014	93	103	97
NE-E B	J1600458-015	96	101	98
NE-W S	J1600458-016	94	101	99
NE-W M	J1600458-017	92	99	100
NE-W B	J1600458-018	93	102	99
Trip Blank	J1600458-019	96	100	101
Lab Control Sample	JQ1600608-03	92	98	102
Duplicate Lab Control Sample	JQ1600608-04	93	96	103
Method Blank	JQ1600608-05	92	94	101
Lab Control Sample	JQ1600628-03	93	98	97
Duplicate Lab Control Sample	JQ1600628-04	93	100	102
Method Blank	JQ1600628-05	94	101	98

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/23/16
Sample Matrix:	Water		

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	624	**Units:**	ug/L
		Basis:	NA
		Analysis Lot:	481173

	Lab Control Sample JQ1600608-03			Duplicate Lab Control Sample JQ1600608-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	50.1	50.0	100	47.3	50.0	95	78-120	6	30
1,1,2,2-Tetrachloroethane	46.5	50.0	93	46.8	50.0	94	65-137	<1	30
1,1,2-Trichloroethane	50.8	50.0	102	51.9	50.0	104	81-121	2	30
1,1-Dichloroethane (1,1-DCA)	50.4	50.0	101	49.3	50.0	99	83-119	2	30
1,1-Dichloroethene (1,1-DCE)	48.4	50.0	97	46.8	50.0	94	79-123	3	30
1,2-Dichloroethane	45.6	50.0	91	44.5	50.0	89	73-120	2	30
1,2-Dichloropropane	52.3	50.0	105	51.1	50.0	102	86-116	2	30
2-Chloroethyl Vinyl Ether	51.1	50.0	102	50.1	50.0	100	10-190	2	30
Benzene	50.4	50.0	101	49.4	50.0	99	83-118	2	30
Bromodichloromethane	50.2	50.0	100	49.0	50.0	98	77-120	2	30
Bromoform	54.4	50.0	109	54.7	50.0	109	38-149	<1	30
Bromomethane	70.1	50.0	140 *	73.4	50.0	147 *	78-132	5	30
Carbon Tetrachloride	47.9	50.0	96	45.9	50.0	92	67-129	4	30
Chlorobenzene	52.6	50.0	105	52.6	50.0	105	83-122	<1	30
Chloroethane	67.8	50.0	136 *	68.8	50.0	138 *	80-129	1	30
Chloroform	48.9	50.0	98	47.2	50.0	94	81-118	4	30
Chloromethane	54.2	50.0	108	52.2	50.0	104	61-138	4	30
cis-1,3-Dichloropropene	50.4	50.0	101	51.3	50.0	103	80-120	2	30
Dibromochloromethane	56.0	50.0	112	56.1	50.0	112	71-122	<1	30
Ethylbenzene	52.2	50.0	104	52.4	50.0	105	82-124	<1	30
Methylene Chloride	48.1	50.0	96	47.0	50.0	94	70-134	2	30
Tetrachloroethene (PCE)	53.2	50.0	106	52.3	50.0	105	77-129	2	30
Toluene	52.6	50.0	105	52.6	50.0	105	82-122	<1	30
trans-1,2-Dichloroethene	50.2	50.0	100	48.6	50.0	97	81-119	3	30
trans-1,3-Dichloropropene	48.1	50.0	96	47.1	50.0	94	71-124	2	30
Trichloroethene (TCE)	57.1	50.0	114	56.6	50.0	113	81-120	<1	30
Vinyl Chloride	50.8	50.0	102	49.0	50.0	98	72-133	4	30
Xylenes, Total	158	150	105	156	150	104	86-121	<1	30

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/25/16
Sample Matrix:	Water		

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	624	**Units:**	ug/L
		Basis:	NA
		Analysis Lot:	481175

	Lab Control Sample JQ1600628-03			Duplicate Lab Control Sample JQ1600628-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	54.6	50.0	109	51.5	50.0	103	78-120	6	30
1,1,2,2-Tetrachloroethane	44.5	50.0	89	46.3	50.0	93	65-137	4	30
1,1,2-Trichloroethane	48.1	50.0	96	49.6	50.0	99	81-121	3	30
1,1-Dichloroethane (1,1-DCA)	50.3	50.0	101	49.8	50.0	100	83-119	<1	30
1,1-Dichloroethene (1,1-DCE)	49.7	50.0	99	48.4	50.0	97	79-123	3	30
1,2-Dichloroethane	48.3	50.0	97	48.0	50.0	96	73-120	<1	30
1,2-Dichloropropane	50.0	50.0	100	50.8	50.0	102	86-116	1	30
2-Chloroethyl Vinyl Ether	46.2	50.0	92	47.4	50.0	95	10-190	2	30
Benzene	49.2	50.0	98	48.4	50.0	97	83-118	2	30
Bromodichloromethane	52.8	50.0	106	51.0	50.0	102	77-120	3	30
Bromoform	54.3	50.0	109	54.6	50.0	109	38-149	<1	30
Bromomethane	68.6	50.0	137 *	67.6	50.0	135 *	78-132	1	30
Carbon Tetrachloride	51.9	50.0	104	49.5	50.0	99	67-129	5	30
Chlorobenzene	52.1	50.0	104	51.1	50.0	102	83-122	2	30
Chloroethane	74.7	50.0	149 *	65.5	50.0	131 *	80-129	13	30
Chloroform	50.4	50.0	101	49.4	50.0	99	81-118	2	30
Chloromethane	47.4	50.0	95	45.7	50.0	91	61-138	4	30
cis-1,3-Dichloropropene	52.2	50.0	104	52.1	50.0	104	80-120	<1	30
Dibromochloromethane	57.0	50.0	114	57.6	50.0	115	71-122	1	30
Ethylbenzene	50.4	50.0	101	51.0	50.0	102	82-124	1	30
Methylene Chloride	46.2	50.0	92	45.5	50.0	91	70-134	2	30
Tetrachloroethene (PCE)	53.4	50.0	107	51.1	50.0	102	77-129	4	30
Toluene	50.1	50.0	100	50.6	50.0	101	82-122	1	30
trans-1,2-Dichloroethene	50.5	50.0	101	48.8	50.0	98	81-119	3	30
trans-1,3-Dichloropropene	48.9	50.0	98	48.4	50.0	97	71-124	<1	30
Trichloroethene (TCE)	55.4	50.0	111	54.6	50.0	109	81-120	2	30
Vinyl Chloride	48.5	50.0	97	47.1	50.0	94	72-133	3	30
Xylenes, Total	153	150	102	151	150	100	86-121	2	30

Client: Escambia County **Service Request:** J1600458
Project: Jackson Lakes
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Extraction Method: Method

Sample Name	Lab Code	2,4,6-Tribromophenol 33 - 133	2-Fluorobiphenyl 22 - 105	2-Fluorophenol 10 - 69
SW-W S	J1600458-001	49	40	26
SW-W M	J1600458-002	42	52	32
SW-W B	J1600458-003	54	52	30
SW-E S	J1600458-004	52	68	43
SW-E M	J1600458-005	38	58	34
SW-E B	J1600458-006	50	53	31
SE-E S	J1600458-007	37	52	31
SE-E M	J1600458-008	38	63	40
SE-E B	J1600458-009	45	59	39
SE-W S	J1600458-010	44	61	37
SE-E M	J1600458-011	48	57	38
SE-W B	J1600458-012	46	58	39
NE-E S	J1600458-013	56	57	41
NE-E M	J1600458-014	56	54	38
NE-E B	J1600458-015	62	52	39
NE-W S	J1600458-016	64	49	35
NE-W M	J1600458-017	58	48	35
NE-W B	J1600458-018	60	50	35
Method Blank	JQ1600640-01	73	75	59
Lab Control Sample	JQ1600640-02	86	74	50
Duplicate Lab Control Sample	JQ1600640-03	84	71	56

Client: Escambia County **Service Request:** J1600458
Project: Jackson Lakes
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Extraction Method: Method

Sample Name	Lab Code	Nitrobenzene-d5 10 - 123	Phenol-d6 10 - 59	p-Terphenyl-d14 28 - 120
SW-W S	J1600458-001	40	22	86
SW-W M	J1600458-002	53	29	77
SW-W B	J1600458-003	52	30	84
SW-E S	J1600458-004	68	38	84
SW-E M	J1600458-005	58	32	75
SW-E B	J1600458-006	51	32	94
SE-E S	J1600458-007	51	28	82
SE-E M	J1600458-008	63	37	76
SE-E B	J1600458-009	55	34	78
SE-W S	J1600458-010	58	35	76
SE-E M	J1600458-011	58	34	82
SE-W B	J1600458-012	58	34	76
NE-E S	J1600458-013	56	34	81
NE-E M	J1600458-014	53	32	76
NE-E B	J1600458-015	52	31	83
NE-W S	J1600458-016	50	28	88
NE-W M	J1600458-017	47	28	81
NE-W B	J1600458-018	49	29	86
Method Blank	JQ1600640-01	76	47	87
Lab Control Sample	JQ1600640-02	73	45	88
Duplicate Lab Control Sample	JQ1600640-03	70	46	83

Client: Escambia County **Service Request:** J1600458
Project: Jackson Lakes
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 625
Extraction Method: Method

Sample Name	Lab Code	p-Terphenyl-d14 28 - 120
SW-W S	J1600458-001	86
SW-W M	J1600458-002	77
SW-W B	J1600458-003	84
SW-E S	J1600458-004	84
SW-E M	J1600458-005	75
SW-E B	J1600458-006	94
SE-E S	J1600458-007	82
SE-E M	J1600458-008	76
SE-E B	J1600458-009	78
SE-W S	J1600458-010	76
SE-E M	J1600458-011	82
SE-W B	J1600458-012	76
NE-E S	J1600458-013	81
NE-E M	J1600458-014	76
NE-E B	J1600458-015	83
NE-W S	J1600458-016	88
NE-W M	J1600458-017	81
NE-W B	J1600458-018	86
Method Blank	JQ1600640-01	87
Lab Control Sample	JQ1600640-02	88
Duplicate Lab Control Sample	JQ1600640-03	83

QA/QC Report

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/27/16
Sample Matrix:	Water	**Date Extracted:**	01/26/16

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method:	625	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	481651

	Lab Control Sample JQ1600640-02			Duplicate Lab Control Sample JQ1600640-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4-Dinitrotoluene	33.6	40.0	84	33.3	40.0	83	59-133	1	30
2-Chlorophenol	27.4	40.0	69	27.7	40.0	69	31-107	<1	30
4-Chloro-3-methylphenol	33.6	40.0	84	31.5	40.0	79	22-147	7	30
Acenaphthene	30.8	40.0	77	29.7	40.0	74	47-145	4	30
Acenaphthylene	31.3	40.0	78	30.3	40.0	76	33-145	3	30
Anthracene	34.2	40.0	85	32.6	40.0	81	27-133	5	30
Benzo(a)pyrene	35.0	40.0	87	33.6	40.0	84	17-163	4	30
Benzo(b)fluoranthene	34.1	40.0	85	32.8	40.0	82	24-159	4	30
Benzo(g,h,i)perylene	35.0	40.0	88	33.8	40.0	84	10-219	4	30
Benzo(k)fluoranthene	35.1	40.0	88	33.8	40.0	84	11-162	4	30
Bis(2-ethylhexyl) Phthalate	36.6	40.0	91	35.0	40.0	88	10-158	4	30
Butyl Benzyl Phthalate	36.5	40.0	91	35.3	40.0	88	10-152	3	30
Chrysene	35.4	40.0	89	34.2	40.0	86	17-168	3	30
Dibenz(a,h)anthracene	34.7	40.0	87	33.9	40.0	85	10-227	2	30
Diethyl Phthalate	35.5	40.0	89	34.0	40.0	85	10-114	4	30
Di-n-butyl Phthalate	36.0	40.0	90	35.0	40.0	87	10-118	3	30
Fluoranthene	35.4	40.0	88	33.9	40.0	85	26-137	4	30
Fluorene	32.2	40.0	80	30.8	40.0	77	59-121	4	30
Indeno(1,2,3-cd)pyrene	35.5	40.0	89	33.8	40.0	85	10-171	5	30
Isophorone	30.6	40.0	76	28.8	40.0	72	21-196	6	30
Naphthalene	28.1	40.0	70	26.9	40.0	67	21-133	4	30
n-Nitrosodiphenylamine / Diphenylamine	33.6	40.0	84	32.8	40.0	82	59-120	2	30
Phenanthrene	33.8	40.0	84	32.4	40.0	81	54-120	4	30
Phenol	18.8	40.0	47	19.4	40.0	48	10-112	3	30
Pyrene	33.9	40.0	85	33.2	40.0	83	52-115	2	30

Client: Escambia County **Service Request:** J1600458
Project: Jackson Lakes
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method: 608
Extraction Method: Method

Sample Name	Lab Code	Decachlorobiphenyl 10 - 160	Tetrachloro-m-xylene 22 - 126
SW-W S	J1600458-001	53	73
SW-W M	J1600458-002	57	69
SW-W B	J1600458-003	73	74
SW-E S	J1600458-004	60	72
SW-E M	J1600458-005	56	73
SW-E B	J1600458-006	67	67
SE-E S	J1600458-007	56	76
SE-E M	J1600458-008	64	66
SE-E B	J1600458-009	67	77
SE-W S	J1600458-010	68	65
SE-E M	J1600458-011	58	63
SE-W B	J1600458-012	69	70
NE-E S	J1600458-013	64	64
NE-E M	J1600458-014	63	70
NE-E B	J1600458-015	56	65
NE-W S	J1600458-016	67	73
NE-W M	J1600458-017	62	75
NE-W B	J1600458-018	67	81
Method Blank	JQ1600593-01	67	72
Lab Control Sample	JQ1600593-02	74	87
Duplicate Lab Control Sample	JQ1600593-03	74	103

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/25/16
Sample Matrix:	Water	**Date Extracted:**	01/25/16

Duplicate Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	481329

	Lab Control Sample JQ1600593-02			Duplicate Lab Control Sample JQ1600593-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	0.0963	0.100	96	0.100	0.100	100	31-141	4	30
4,4'-DDE	0.102	0.100	102	0.106	0.100	106	30-145	4	30
4,4'-DDT	0.100	0.100	100	0.107	0.100	107	25-160	6	30
Aldrin	0.102	0.100	102	0.101	0.100	101	42-122	2	30
alpha-BHC	0.100	0.100	100	0.103	0.100	103	37-134	3	30
alpha-Chlordane	0.0962	0.100	96	0.101	0.100	101	32-118	5	30
beta-BHC	0.0911	0.100	91	0.104	0.100	104	17-147	13	30
delta-BHC	0.107	0.100	107	0.105	0.100	105	19-140	2	30
Dieldrin	0.0965	0.100	96	0.101	0.100	101	36-146	5	30
Endosulfan I	0.0923	0.100	92	0.0978	0.100	98	45-153	6	30
Endosulfan II	0.103	0.100	103	0.110	0.100	110	10-202	6	30
Endosulfan Sulfate	0.0965	0.100	96	0.102	0.100	102	26-144	5	30
Endrin	0.101	0.100	101	0.106	0.100	106	30-147	5	30
Endrin Aldehyde	0.0897	0.100	90	0.0953	0.100	95	10-136	6	30
Endrin Ketone	0.101	0.100	101	0.102	0.100	102	34-118	<1	30
gamma-BHC (Lindane)	0.0956	0.100	96	0.101	0.100	101	32-127	5	30
gamma-Chlordane	0.0966	0.100	97	0.102	0.100	102	33-117	5	30
Heptachlor	0.0955	0.100	95	0.103	0.100	103	34-111	8	30
Heptachlor Epoxide	0.0973	0.100	97	0.103	0.100	103	37-142	5	30
Methoxychlor	0.110	0.100	110	0.115	0.100	115	18-153	5	30

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/26/16
Sample Matrix:	Water	**Date Extracted:**	01/25/16

Duplicate Lab Control Sample Summary
Organochlorine Pesticides and Polychlorinated Biphenyls

Analysis Method:	608	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	481494

	Lab Control Sample JQ1600593-02			Duplicate Lab Control Sample JQ1600593-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	0.758	1.00	76	0.940	1.00	94	50-114	22	30
Aroclor 1260	0.808	1.00	81	0.675	1.00	68	10-127	18	30

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request:J1600458
Date Collected:01/19/16
Date Received:01/21/16
Date Analyzed:1/29/16

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: SW-W S
Lab Code: J1600458-001

Units:ug/L
Basis:NA

			Matrix Spike			Duplicate Matrix Spike					
			J1600458-001MS			J1600458-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	200.8	0.3	56.6	50.0	113	57.3	50.0	114	70-130	1	20
Arsenic, Total	200.8	1.3	52.2	50.0	102	53.6	50.0	105	70-130	3	20
Barium, Total	200.8	23.4	128	100	105	129	100	106	70-130	1	20
Beryllium, Total	200.8	0.04	24.5	25.0	98	24.4	25.0	98	70-130	<1	20
Cadmium, Total	200.8	0.10	19.8	20.0	99	20.1	20.0	100	70-130	1	20
Chromium, Total	200.8	0.7	50.3	50.0	99	52.0	50.0	103	70-130	3	20
Copper, Total	200.8	1.5	50.0	50.0	97	51.2	50.0	99	70-130	2	20
Lead, Total	200.8	0.30	26.0	25.0	103	26.7	25.0	106	70-130	3	20
Nickel, Total	200.8	0.5	95.1	100	95	99.5	100	99	70-130	5	20
Selenium, Total	200.8	1.5	98.9	100	97	103	100	101	70-130	4	20
Silver, Total	200.8	0.06	24.6	25.0	98	25.0	25.0	100	70-130	2	20
Thallium, Total	200.8	0.05	10.5	10.0	105	10.5	10.0	105	70-130	<1	20
Zinc, Total	200.8	13.4	251	250	95	258	250	98	70-130	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request:J1600458
Date Collected:01/20/16
Date Received:01/21/16
Date Analyzed:1/29/16

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: NE-W B
Lab Code: J1600458-018

Units:ug/L
Basis:NA

			Matrix Spike J1600458-018MS			Duplicate Matrix Spike J1600458-018DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Antimony, Total	200.8	0.2	56.3	50.0	113	56.6	50.0	113	70-130	<1	20
Arsenic, Total	200.8	0.5	51.6	50.0	103	52.1	50.0	104	70-130	<1	20
Barium, Total	200.8	51.5	156	100	104	158	100	107	70-130	2	20
Beryllium, Total	200.8	0.04	24.9	25.0	100	24.9	25.0	99	70-130	<1	20
Cadmium, Total	200.8	0.10	20.5	20.0	102	20.7	20.0	103	70-130	1	20
Chromium, Total	200.8	0.3	51.3	50.0	102	52.3	50.0	104	70-130	2	20
Copper, Total	200.8	0.4	51.0	50.0	101	51.4	50.0	102	70-130	<1	20
Lead, Total	200.8	0.26	27.3	25.0	108	27.6	25.0	109	70-130	1	20
Nickel, Total	200.8	0.5	102	100	102	104	100	104	70-130	3	20
Selenium, Total	200.8	1.1	102	100	102	102	100	102	70-130	<1	20
Silver, Total	200.8	0.06	25.5	25.0	102	25.8	25.0	103	70-130	<1	20
Thallium, Total	200.8	0.05	10.9	10.0	109	10.9	10.0	109	70-130	<1	20
Zinc, Total	200.8	6.3	261	250	102	264	250	103	70-130	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/19/16
Sample Matrix:	Water	**Date Received:**	01/21/16
		Date Analyzed:	01/27/16
		Date Extracted:	01/27/16

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name:	SW-W B	**Units:**	ug/L
Lab Code:	J1600458-003	**Basis:**	NA
Analysis Method:	245.1		
Prep Method:	Method		

		Matrix Spike J1600458-003MS			Duplicate Matrix Spike J1600458-003DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury, Total	0.02 U	0.58	1.25	46 *	0.65	1.25	52 *	70-130	11	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request: J1600458
Date Analyzed: 01/29/16

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1600458-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	200.8	53.9	50.0	108	85-115
Arsenic, Total	200.8	50.4	50.0	101	85-115
Barium, Total	200.8	107	100	107	85-115
Beryllium, Total	200.8	25.3	25.0	101	85-115
Cadmium, Total	200.8	20.6	20.0	103	85-115
Chromium, Total	200.8	52.7	50.0	105	85-115
Copper, Total	200.8	51.0	50.0	102	85-115
Lead, Total	200.8	27.3	25.0	109	85-115
Nickel, Total	200.8	104	100	104	85-115
Selenium, Total	200.8	101	100	101	85-115
Silver, Total	200.8	27.4	25.0	110	85-115
Thallium, Total	200.8	10.9	10.0	109	85-115
Zinc, Total	200.8	256	250	102	85-115

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request: J1600458
Date Analyzed: 01/27/16

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1600458-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	245.1	1.06	1.25	85	85-115

Client:	Escambia County	**Service Request:**	J1600458
Project	Jackson Lakes	**Date Collected:**	01/19/16
Sample Matrix:	Water	**Date Received:**	01/21/16
		Date Analyzed:	01/26/16

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SW-W S	**Units:**	ug/L
Lab Code:	J1600458-001	**Basis:**	NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1600458-001DUP Result	Average	RPD	RPD Limit
Cyanide, Total	SM 4500-CN- E	10	3	3 U	3 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Escambia County	**Service Request:**	J1600458
Project	Jackson Lakes	**Date Collected:**	01/19/16
Sample Matrix:	Water	**Date Received:**	01/21/16
		Date Analyzed:	01/29/16

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	SW-W S	**Units:**	mg/L
Lab Code:	J1600458-001	**Basis:**	NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1600458-001DUP Result	Average	RPD	RPD Limit
Phenolics, Total Recoverable	420.4	0.10	0.01	0.04 IV	0.05 I	0.0466	12	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Escambia County	**Service Request:**	J1600458
Project	Jackson Lakes	**Date Collected:**	01/20/16
Sample Matrix:	Water	**Date Received:**	01/21/16
		Date Analyzed:	01/29/16

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	NE-W B	**Units:**	mg/L
Lab Code:	J1600458-018	**Basis:**	NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1600458-018DUP Result	Average	RPD	RPD Limit
Phenolics, Total Recoverable	420.4	0.10	0.01	0.06 IV	0.04 I	0.0505	44 *	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request:J1600458
Date Collected:01/19/16
Date Received:01/21/16
Date Analyzed:1/26/16

Matrix Spike Summary
General Chemistry Parameters

Sample Name: SW-W S
Lab Code: J1600458-001

Units:ug/L
Basis:NA

Matrix Spike
J1600458-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	SM 4500-CN- E	3	102	100	102	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request:J1600458
Date Collected:01/19/16
Date Received:01/21/16
Date Analyzed:1/29/16

Matrix Spike Summary
General Chemistry Parameters

Sample Name: SW-W S
Lab Code: J1600458-001

Units:mg/L
Basis:NA

Matrix Spike
J1600458-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	0.04	1.93	2.00	94	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Collected:**	01/20/16
Sample Matrix:	Water	**Date Received:**	01/21/16
		Date Analyzed:	01/29/16
		Date Extracted:	01/29/16

Matrix Spike Summary
Phenolics, Total Recoverable

Sample Name:	NE-W B	**Units:**	mg/L
Lab Code:	J1600458-018	**Basis:**	NA
Analysis Method:	420.4		
Prep Method:	Method		

Matrix Spike
J1600458-018MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	0.06 IV	1.93	2.00	93	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request: J1600458
Date Analyzed: 01/26/16

Lab Control Sample Summary
General Chemistry Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1600458-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	SM 4500-CN- E	103	100	103	90-110

Client: Escambia County
Project: Jackson Lakes
Sample Matrix: Water

Service Request: J1600458
Date Analyzed: 01/29/16

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1600458-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Phenolics, Total Recoverable	420.4	1.99	2.00	100	90-110

Client:	Escambia County	**Service Request:**	J1600458
Project:	Jackson Lakes	**Date Analyzed:**	01/29/16
Sample Matrix:	Water	**Date Extracted:**	01/28/16

Lab Control Sample Summary
Cyanide, Total

Analysis Method:	SM 4500-CN- E	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	481908

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1600458-LCS2	102	100	102	90-110

ALS Environmental

Cooler Receipt Form

Client: Escambia Co Service Request #: J1600459

Project: Jackson Lakes

Cooler received on 1-21-16 and opened on 1-21-16 GR

COURIER: ALS UPS FEDEX Client Other _____ Airbill # _____

1	Were custody seals on outside of cooler?	Yes	No
	If yes, how many and where?	#:___ on lid	other
2	Were seals intact and signature and date correct?	Yes	No N/A
3	Were custody papers properly filled out?	Yes	No N/A
4	Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C)	2.5 3.4 3.1 2.6 4.4 4.7	
5	Thermometer ID	T124	
6	Temperature Blank Present?	Yes	No
7	Were Ice or Ice Packs present	Ice	Ice Packs No
8	Did all bottles arrive in good condition (unbroken, etc....)?	Yes	No N/A
9	Type of packing material present	Netting	Vial Holder Bubble Wrap
		Paper	Styrofoam Other N/A
10	Were all bottle labels complete (sample ID, preservation, etc....)?	Yes	No N/A
11	Did all bottle labels and tags agree with custody papers?	Yes	No N/A
12	Were the correct bottles used for the tests indicated?	Yes	No N/A
13	Were all of the preserved bottles received with the appropriate preservative?	Yes	No N/A
	HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2		
	Preservative additions noted below		
14	Were all samples received within analysis holding times?	Yes	No N/A
15	Were all VOA vials free of air bubbles? If present, note below	Yes	No N/A
16	Where did the bottles originate?	ALS	Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Trip Blank included

Client approval to run samples if discrepancies noted: Date:

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

SR # J1600458
ALS Contact

J1600458 5
Escambia County
Jackson Lakes

Project Name	Project Number
Jackson Lakes	
Report To	Report CC
Christy Draper	Dana Morton
Company/Address	
Escambia County	
3363 West Park Place	
Pensacola Florida 32505	
Phone #	FAX #
Sampler's Signature	Sampler's Printed Name
Mollie A Taylor	Mollie A. Taylor

ANALYSIS REQUESTED (Include Method Number)

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	Preservative	NUMBER OF CONTAINERS	624	625	608	200.7/200.8/245.1 PP Metals	Cyanide	Phenols	REMARKS
SW-W-S		1.19.16	1000	SW			X	X	X	X	X	X	
SW-W-M		1.19.16	1015	SW			X	X	X	X	X	X	
SW-W-B		1.19.16	1030	SW			X	X	X	X	X	X	
SW-E-S		1.19.16	1125	SW			X	X	X	X	X	X	
SW-E-M		1.19.16	1140	SW			X	X	X	X	X	X	
SW-E-B		1.19.16	1155	SW			X	X	X	X	X	X	
SE-E-S		1.19.16	1405	SW			X	X	X	X	X	X	
SE-E-M		1.19.16	1420	SW			X	X	X	X	X	X	
SE-E-B		1.19.16	1435	SW			X	X	X	X	X	X	
SE-W-S		1.19.16	1515	SW			X	X	X	X	X	X	

2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4

Special Instructions/Comments: **Fecal Coliform subcontracted to Future Labs.**

4.7°C
2.5°C 3.4°C 3.1°C 2.6°C 4.4°C

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. #
Bill to:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature:	Signature	Signature	Signature	Signature
Printed Name: Mollie Taylor	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ESCWRLM	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 1.19.2016 1314	Date/Time: 1.21.16 1300	Date/Time	Date/Time	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

SR # J1600458
ALS Contact

J1600458 5
Escambia County
Jackson Lakes

Project Name	Project Number
Jackson Lakes	
Report To: Christy Draper	Report CC: Dana Morton
Company/Address: Escambia County 3363 West Park Place Pensacola Florida 32505	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A. Taylor

ANALYSIS REQUESTED (Include Method Number)

Preservative: 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS		624	625	608	200.7/200.8/245.1 PP Metals	Cyanide	Phenols	REMARKS
SE-W-M		1.19.16	1530	SW			X	X	X	X	X	X	
SE-W-B		1.19.16	1545	SW			X	X	X	X	X	X	
NE-E-S		1.20.16	1000	SW			X	X	X	X	X	X	
NE-E-M		1.20.16	1015	SW			X	X	X	X	X	X	
NE-E-B		1.20.16	1030	SW			X	X	X	X	X	X	
NE-W-S		1.20.16	1110	SW			X	X	X	X	X	X	
NE-W-M		1.20.16	1125	SW			X	X	X	X	X	X	
NE-W-B		1.20.16	1140	SW			X	X	X	X	X	X	
				SW			X	X	X	X	X	X	
				SW			X	X	X	X	X	X	

Special Instructions/Comments: **Fecal Coliform subcontracted to Future Labs.**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # ___
Bill to: ___

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature:	Signature	Signature	Signature	Signature
Printed Name: Mollie Taylor	Printed Name:	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ESCWQLM	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 1.19.2016/ 1314	Date/Time: 1-20-16 1300	Date/Time	Date/Time	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1600458 J1600458
ALS Contact

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

Project Name: Jackson Lakes	Project Number:
Report To: Scott Martin	Report CC: mike.kimmel@alsglobal.com
Company/Address: ALS Environmental, 9143 Philips Highway, Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A. Taylor

J1600458 5
Escambia County
Jackson Lakes

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	Fecal Coliform MF	REMARKS
SW-W-S		1-19-16	1000	SW			X	
SW-W-M		1-19-16	1015	SW			X	
SW-W-B		1-19-16	1030	SW			X	
SW-E-S		1-19-16	1125	SW			X	
SW-E-M		1-19-16	1140	SW			X	
SW-E-B		1-19-16	1155	SW			X	
SE-E-S		1-19-16	1405	SW			X	
SE-E-M		1-19-16	1420	SW			X	
SE-E-B		1-19-16	1435	SW			X	
SE-W-S		1-19-16	1515	SW			X	

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key
0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # ___
Bill to: ___

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Scott Martin	Signature: Scott Martin	Signature: Kristina Sayler	Signature:	Signature:
Printed Name: Mollie Taylor	Printed Name: Scott Martin	Printed Name: Scott Martin	Printed Name: Kristina Sayler	Printed Name:	Printed Name:
Firm: ESCWALM	Firm: ALS	Firm: ALS	Firm: Future Labs, Inc.	Firm:	Firm:
Date/Time: 1-19-2016 / 1402	Date/Time: 1/19/16 1605	Date/Time: 1/19/16 1650	Date/Time: 1-19-16 / 1650	Date/Time:	Date/Time:

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR # J1600458
ALS Contact

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

Project Name	Project Number
Jackson Lakes	
Report To	Report CC
Scott Martin	mike.kimmel@alsglobal.com
Company/Address	
ALS Environmental 9143 Philips Highway Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A. Taylor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

J1600458 5
Escambia County
Jackson Lakes

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	Preservative	NUMBER OF CONTAINERS	Fecal Coliform MF	REMARKS
SE-W-M		1.19.16	1530	SW			X	
SE-W-B		1.19.16	1545	SW			X	
				SW			X	
				SW			X	
				SW			X	
				SW			X	
				SW			X	
				SW			X	
				SW			X	
				SW			X	

Preservative Key
0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # ___
Bill to: ___

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Scott Mart	Signature: Scott Mart	Signature: Kristina Sayler	Signature	Signature
Printed Name: Mollie Taylor	Printed Name: Scott Martin	Printed Name: Scott Martin	Printed Name: Kristina Sayler	Printed Name	Printed Name
Firm: ESCWQLM	Firm	Firm	Firm	Firm	Firm
Date/Time: 1.19.2016 1600	Date/Time: 1/19/16 1650	Date/Time: 1/19/16 1650	Date/Time: 1.19.16 1650	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

SR # J1600458
ALS Contact

Page _____ of _____

Project Name	Project Number
Jackson Lakes	
Report To	Report CC
Scott Martin	mike.kimmel@alsglobal.com
Company/Address	
ALS Environmental	
9143 Philips Highway	
Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature	Sampler's Printed Name
Mollie A Taylor	Mollie A Taylor

J1600458 5
Escambia County
Jackson Lakes

Preservative Key: 1. None; 2. HCL; 3. HNO3; 4. H2SO4; 5. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	Fecal Coliform MF	REMARKS
NE-E-S		1-20-16	1000	SW			X	
NE-E-M		1-20-16	1015	SW			X	
NE-E-B		1-20-16	1030	SW			X	
NE-W-S		1-20-16	1110	SW			X	
NE-W-M		1-20-16	1125	SW			X	
NE-W-B		1-20-16	1140	SW			X	
~~NE-W-B~~				SW			X	
				SW			X	
				SW			X	
				SW			X	

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # _____
Bill to: _____

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Jennifer L Bare	Signature	Signature	Signature	Signature
Printed Name: Mollie Taylor	Printed Name: Jennifer L. Bare	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ESCWQLM	Firm: Future Labs	Firm	Firm	Firm	Firm
Date/Time: 1-20-2016 / 1314	Date/Time: 1-20-16 / 1445	Date/Time	Date/Time	Date/Time	Date/Time

FUTURE LABS, INC.
5756 Stewart Street
Milton, Florida 32570-4008

CLIENT: ALS ENVIRONMENTAL
9143 PHILIPS HWY STE. 200
JACKSONVILLE, FL 32256

Sample ID: Jackson Lakes
Sample Type Grab
Method No.: Fecal coliform SM 9222 D

Report Date: 22-Jan-16
Sample Location: Jackson Lakes
Reporting Units: cfu /100mL

Results of Analysis:

LAB ID	Location	Sample Date	Sample Time	Date Received	Time Received	Analyst / Date / Time	MDL	PQL	Results	Q
16- 0215	SW-W-S	1/19/2016	1000	1/19/2016	1650	KS / 01-19-16/1700	2	2	34	
16- 0216	SW-W-M	1/19/2016	1015	1/19/2016	1650	KS / 01-19-16/1700	2	2	19	
16- 0217	SW-W-B	1/19/2016	1030	1/19/2016	1650	KS / 01-19-16/1700	2	2	13	
16- 0218	SW-E-S	1/19/2016	1125	1/19/2016	1650	KS / 01-19-16/1700	2	2	30	
16- 0219	SW-E-M	1/19/2016	1140	1/19/2016	1650	KS / 01-19-16/1700	2	2	25	
16- 0220	SW-E-B	1/19/2016	1155	1/19/2016	1650	KS / 01-19-16/1700	2	2	5	
16- 0221	SE-E-S	1/19/2016	1405	1/19/2016	1650	KS / 01-19-16/1745	20	20	300	
16- 0222	SE-E-M	1/19/2016	1420	1/19/2016	1650	KS / 01-19-16/1745	4	4	67	
16- 0223	SE-E-B	1/19/2016	1435	1/19/2016	1650	KS / 01-19-16/1745	20	20	1140	
16- 0224	SE-W-S	1/19/2016	1515	1/19/2016	1650	KS / 01-19-16/1745	20	20	90	
16- 0225	SE-W-M	1/19/2016	1530	1/19/2016	1650	KS / 01-19-16/1745	2	2	72	
16- 0226	SE-W-B	1/19/2016	1545	1/19/2016	1650	KS / 01-19-16/1745	2	2	37	
16- 0238	NE-E-S	1/20/2016	1000	1/20/2016	1445	KS / 01-20-16/1540	2	2	24	
16- 0239	NE-E-M	1/20/2016	1015	1/20/2016	1445	KS / 01-20-16/1540	2	2	22	
16- 0240	NE-E-B	1/20/2016	1030	1/20/2016	1445	KS / 01-20-16/1540	2	2	18	
16- 0241	NE-W-S	1/20/2016	1110	1/20/2016	1445	KS / 01-20-16/1540	2	2	27	
16- 0242	NE-W-M	1/20/2016	1125	1/20/2016	1445	KS / 01-20-16/1540	2	2	12	
16- 0243	NE-W-B	1/20/2016	1140	1/20/2016	1445	KS / 01-20-16/1540	2	2	8	

Approved by: Jennifer L. Boone / QA Officer

All results were reviewed. All analytical data reported are in compliance with NELAC standards and within the acceptance criteria for accuracy, precision, and completeness unless properly flagged. Results apply only to the submitted samples identified by Lab ID number shown on this report. Only approved EPA or Standard Methods were used for analysis. Please direct any questions to the Laboratory QA Officer at 850-623-6110.

Q = Qualifier code

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

SR #

ALS Contact

Project Name	Project Number
Jackson Lakes	
Report To	Report CC
Scott Martin	mike.kimmel@alsglobal.com
Company/Address	
ALS Environmental	
9143 Philips Highway	
Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A. Taylor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	Fecal Coliform MF	REMARKS
SW-W-S	16-0215	1.19.16	1000	SW			X	4.6
SW-W-M	16-0216	1.19.16	1015	SW			X	5.0
SW-W-B	16-0217	1.19.16	1030	SW			X	3.6
SW-E-S	16-0218	1.19.16	1125	SW			X	3.7
SW-E-M	16-0219	1.19.16	1140	SW			X	4.4
SW-E-B	16-0220	1.19.16	1155	SW			X	5.0
SE-E-S	16-0221	1.19.16	1405	SW			X	6.2
SE-E-M	16-0222	1.19.16	1420	SW			X	6.3
SE-E-B	16-0223	1.19.16	1435	SW			X	6.1
SE-W-S	16-0224	1.19.16	1515	SW			X	6.5
								8.5

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # _____
Bill to: _____

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Scott Martin	Signature: Scott Martin	Signature: Kristina Sayler	Signature	Signature
Printed Name: Mollie Taylor	Printed Name: Scott Martin	Printed Name: Scott Martin	Printed Name: Kristina Sayler	Printed Name	Printed Name
Firm: ESCWALM	Firm: ALS	Firm: ALS	Firm: Future Labs, Inc.	Firm	Firm
Date/Time: 1.19.2016 / 1602	Date/Time: 1/19/16 1605	Date/Time: 1/19/16 1650	Date/Time: 1.19.16 / 1650	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Phone (904) 739-2277 / 800-695-7222 x06 / FAX (904) 739-2011
www.alsglobal.com

SR #

ALS Contact

Project Name	Project Number
Jackson Lakes	
Report To: Scott Martin	Report CC: mike.kimmel@alsglobal.com
Company/Address: ALS Environmental 9143 Philips Highway Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A. Taylor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Fecal Coliform MF	REMARKS
SE-W-M	16-0225	1.19.16	1530	SW		X	8.6
SE-W-B	16-0226	1.19.16	1545	SW		X	7.6
				SW		X	
				SW		X	
				SW		X	
				SW		X	
				SW		X	
				SW		X	
				SW		X	
				SW		X	

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
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___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # ___
Bill to: ___

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Scott Martin	Signature: Scott Martin	Signature: Kristina Sayler	Signature	Signature
Printed Name: Mollie Taylor	Printed Name: Scott Martin	Printed Name: Scott Martin	Printed Name: Kristina Sayler	Printed Name	Printed Name
Firm: ESCWQCM	Firm	Firm	Firm	Firm	Firm
Date/Time: 1.19.2016 / 16002	Date/Time: 1/19/16 1650	Date/Time: 1/19/16 1650	Date/Time: 1.19.16 / 1650	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental
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www.alsglobal.com

SR #

ALS Contact

Project Name	Project Number
Jackson Lakes	
Report To	Report CC
Scott Martin	mike.kimmel@alsglobal.com
Company/Address	
ALS Environmental	
9143 Philips Highway	
Jacksonville Florida 32256	
Phone #	FAX #
Sampler's Signature: Mollie A Taylor	Sampler's Printed Name: Mollie A Taylor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Preservative Key: 0. None; 1. HCL; 2. HNO3; 3. H2SO4; 4. NaOH; 5. Zn. Acetate; 6. MeOH; 7. NaHSO4

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	Preservative	Fecal Coliform MF	REMARKS
								8.9
NE-E-S	16-0238	1-20-16	1000	SW			X	8.4
NE-E-M	16-0239	1-20-16	1015	SW			X	8.0
NE-E-B	16-0240	1-20-16	1030	SW			X	7.3
NE-W-S	16-0241	1-20-16	1110	SW			X	7.7
NE-W-M	16-0242	1-20-16	1125	SW			X	7.3
NE-W-B	16-0243	1-20-16	1140	SW			X	
~~NE-W-B dup~~				SW			X	
				SW			X	
				SW			X	
				SW			X	

Special Instructions/Comments: **Subcontracted to Future Labs Milton Florida**

TURNAROUND REQUIREMENTS
___ RUSH (SURCHARGES APPLY)
___ STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
___ I. Results Only
___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

INVOICE INFORMATION
P.O. # _____
Bill to: _____

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Mollie A Taylor	Signature: Jennifer L Bore	Signature	Signature	Signature	Signature
Printed Name: Mollie Taylor	Printed Name: Jennifer L. Bore	Printed Name	Printed Name	Printed Name	Printed Name
Firm: ESCWQLM	Firm: future labs	Firm	Firm	Firm	Firm
Date/Time: 1-20-2016/1314	Date/Time: 1-20-16/1445	Date/Time	Date/Time	Date/Time	Date/Time

Appendix II

Field Data Sheets

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 0.91		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SW-W** Surface	**Date** 1.19.2016	Time of Grab Sample 1000 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☒	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: AquaTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2 - didn't get a secchi measure - buoy was submerged, anchored next GI-01 to it

LOCATION ↳ Peristaltic Pump

JACKSON LAKES SW-W Surface @ 1ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.40	pH Lab	Std. Unit	403	
Temp. Air	°C	20	15.90	Turbidity, HACH	NTU	76	2.15
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903	~~0.91~~	N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	0.91	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1217.2	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.6	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	10.07	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	95.0	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.59	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM "Samples are ambient water and not suspected to contain chlorine"	

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 10.13		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SW-W** - Mid	**Date** 1.19.2016	Time of Grab Sample 1015 ☒ CST ☐ EST

Water (check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank ☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒ Canoe	
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate ☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: Aman TROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: | Module number: 1306

pH < 2

GI-02

LOCATION → peristaltic pump

JACKSON LAKES SW-W

Mid @ 10ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	16.81	pH Lab	Std. Unit	403	
Temp. Air	°C	20	13.20	Turbidity, HACH	NTU	76	1.52
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	10.13	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	3703.5	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	2.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	5.79	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	59.3	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.52	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Morton | Report Prepared By:

WQ Measurements: MT Documentation: MT | Report Verified By:

Sample Collection: DM "Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.606		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SW-W** Bottom	**Date** 1.19.2016	Time of Grab Sample 1030 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice

Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐	AGP ☐

Meter ID Num: AquaTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:	Module number: 1306	**LOCATION** ↳ Peristaltic pump
pH < 2		JACKSON LAKES SW-W
GTI-03		Bottom @22ft
		Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	23.56	pH Lab	Std. Unit	403	
Temp. Air	°C	20	17.60	Turbidity, HACH	NTU	76	2.11
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.606	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	11251.4	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	6.5	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	0.06	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	0.8	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.38	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 1.24ft Intermediate Bottle Triple Rinsed ☐		
Agency	**Station: JACKSON LAKE SW-E** Surface	**Date** 1.19.2016	Time of Grab Sample 1125 ☒ CST ☐ EST

Water (check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank ☐	Freshwater Sed	☐	Shellfish	☐	Wading ☐	☒ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

All Other Samples unless otherwise noted	☐Other:	☐Ice
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐	AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☒ (Other)	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Module number: 1306

pH < 2 -didn't get a secchi depth -couldn't locate boom, anchored GI-04 near location, 50 ft off shore

LOCATION Peristaltic pump JACKSON LAKES SW-E Surface @ 1ft Lat/Long: None in center of lake

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.57	pH Lab	Std. Unit	403	
Temp. Air	°C	20	15.60	Turbidity, HACH	NTU	76	2.17
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	1.24	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1297.2	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.7	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	10.34	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	98.0	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	7.06	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 10.07		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SW-E** Mid	**Date** 1.19.2016	Time of Grab Sample 1140 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2

GTI-05

LOCATION Peristaltic pump

JACKSON LAKES SW-E

mid @ 10ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	16.91	pH Lab	Std. Unit	403	
Temp. Air	°C	20	17.80	Turbidity, HACH	NTU	76	1.63
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	10.07	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	3751.8	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	2.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	6.95	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	71.2	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.74	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM "Samples are ambient water and not suspected to contain chlorine"	

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.70		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SW-E** Bottom	**Date** 1.19.2016	Time of Grab Sample 1155 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2

GJ-006

LOCATION Peristaltic pump

JACKSON LAKES SW-E

Bottom at 22ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	23.24	pH Lab	Std. Unit	403	
Temp. Air	°C	20	16.00	Turbidity, HACH	NTU	76	2.22
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.70	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	112608.9	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	6.5	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	0.07	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	0.8	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.38	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 1.08ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SE-E** Surface	**Date** 1.19.2016	Time of Grab Sample 1405 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice

Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐	AGP ☐

Meter ID Num: YSI ProODO	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other (Peristaltic pump)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:	Module number: 1306	**LOCATION** JACKSON LAKES SE-E Surface @ 1ft
pH < 2 GI-07		Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.98	pH Lab	Std. Unit	403	
Temp. Air	°C	20	22.60	Turbidity, HACH	NTU	76	2.17
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	1.7	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	1.08	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1958.5	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	8.06	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	79.2	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.92	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☑Other: 9.96ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SE-E** Mid	**Date** 1.19.2016	Time of Grab Sample 1420 ☑ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☑ Canoe	
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: Aqua TROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☒ Other	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:	Module number: 1306	**LOCATION** ↳peristaltic pump
pH < 2		JACKSON LAKES SE-E Mid @ 10 ft
GI-08		Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Value**	**Parameter**	**Unit**	**Code**	**Lab Request**
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.93	pH Lab	Std. Unit	403	
Temp. Air	°C	20	20.10	Turbidity, HACH	NTU	76	2.36
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	9.96	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1970.2	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	8.10	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	77.7	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.99	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.2ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SE-E** Bottom	**Date** 1.19.2016	Time of Grab Sample 1435 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2

GI-09

LOCATION by Peristaltic pump
JACKSON LAKES SE-E
Bottom at 22ft
Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.71	pH Lab	Std. Unit	403	
Temp. Air	°C	20	18.50	Turbidity, HACH	NTU	76	2.55
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.20	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1970.5	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.44	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	71.1	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.98	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 1.13 ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station:** JACKSON LAKE SE-W Surface	**Date** 1.19.2016	Time of Grab Sample 1515 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num:	**Equipmt Used:**	Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2 SW pond is flowing into the SE lake. GI-10

LOCATION ↳Peristaltic pump

JACKSON LAKES SE-W

Surface @ 1ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.75	pH Lab	Std. Unit	403	
Temp. Air	°C	20	15.10	Turbidity, HACH	NTU	76	1.97
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	1.5	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	1.13	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1951.4	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	8.04	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	78.6	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	7.02	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM "Samples are ambient water and not suspected to contain chlorine"	

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 9.97 ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SE-W** Mid	**Date** 1.19.2016	Time of Grab Sample 1530 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒ Canoe	
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other (peristaltic pump)	**Equipmt ID Num:** ☐ Field Cleaned
Remarks:	Module number: 1306	**LOCATION** JACKSON LAKES SE-W Mid @ 10 ft
pH < 2 GI-11		Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.86	pH Lab	Std. Unit	403	
Temp. Air	°C	20	15.80	Turbidity, HACH	NTU	76	2.38
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	9.97	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1965.4	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.71	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	73.9	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.99	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.31 ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE SE-W** Surface Bottom	**Date** 1.19.2016	Time of Grab Sample 1515 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒ Canoe	
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num:	**Equipmt Used:**	Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned
Remarks:	Module number: 1306		**LOCATION** JACKSON LAKES SE-W	

pH < 2

GI-12

Peristaltic pump

Bottom @ 22 ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	13.74	pH Lab	Std. Unit	403	
Temp. Air	°C	20	19.10	Turbidity, HACH	NTU	76	2.42
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78		N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.31	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	1972.3	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	1.0	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.42	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	71.9 ~~6.95~~	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.95	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 1.0ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-E** Surface	**Date** 1.20.2016	Time of Grab Sample 1000 ~~0950~~ ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice

Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐	AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:	Module number: 1306	**LOCATION** JACKSON LAKES NE-E Surface at 1ft Lat: N Long: W
pH < 2 GI-13		

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.160	pH Lab	Std. Unit	403	
Temp. Air	°C	20	15.70	Turbidity, HACH	NTU	76	0.12
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	1.3	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	1.01	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	210.5	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.97	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	77.5	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	7.14	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 10.0 ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-E** Mid	**Date** 1.20.2016	Time of Grab Sample 1015 1005 mg ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: AquaTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2

GT-14

LOCATION

JACKSON LAKES NE-E

Mid @ 10ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.59	pH Lab	Std. Unit	403	
Temp. Air	°C	20	17.20	Turbidity, HACH	NTU	76	6.34
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	—	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	10.07	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	211.6	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.83	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	76.6	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.79	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.23ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-E** Bottom	**Date** 1.20.2016	Time of Grab Sample 1030 ~~1020~~ MT ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: Aqua TROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ (Other)	**Equipmt ID Num:** ☐ Field Cleaned
Remarks:	Module number: 1306	**LOCATION** JACKSON LAKES NE-E Bottom at 22ft
pH < 2 GI-15		Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Value**	**Parameter**	**Unit**	**Code**	**Lab Request**
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.57	pH Lab	Std. Unit	403	
Temp. Air	°C	20	19.50	Turbidity, HACH	NTU	76	6.02
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	—	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.23	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	211.8	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.88	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	76.6	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	10.09	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Martin	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 1.08ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-W** Surface	**Date** 1.20.2016	Time of Grab Sample 1110 ☑ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☑ Canoe	
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num: AquaTROLL	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned
Remarks:	Module number: 1306	**LOCATION** JACKSON LAKES NE-W Surface @ 1 ft	
pH < 2 GI-116		Lat: N	Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.84	pH Lab	Std. Unit	403	
Temp. Air	°C	20	21.40	Turbidity, HACH	NTU	76	5.53
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	1.4	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	1.08	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	205.9	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.99	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	78.2	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.77	Chlorophyll A	Corrected	32211	

Samplers: M.Taylor D.Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 10.0ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-W** Mid	**Date** 1.20.2016	Time of Grab Sample 1125 ☒ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num:	**Equipmt Used:**	Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	**Equipmt ID Num:**	☐ Field Cleaned
Remarks:	Module number: 1306		**LOCATION**	
pH < 2 GI-17			JACKSON LAKES NE-W Mid @ 10ft	
			Lat: N	Long: W

Parameter	**Unit**	**Code**	**Field Value**	**Parameter**	**Unit**	**Code**	**Lab Request**
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.62	pH Lab	Std. Unit	403	
Temp. Air	°C	20	21.40	Turbidity, HACH	NTU	76	5.87
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	—	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	10.01	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	208.0	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.99	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	77.8	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.63	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Escambia County WQLM

Water Quality Report Form

	Water Collection Depth: ☐0.15m(0.5') ☒Other: 22.18ft		Intermediate Bottle Triple Rinsed ☐
Agency	**Station: JACKSON LAKE NE-W** Bottom	**Date** 1 20 2016	Time of Grab Sample 1140 ☑ CST ☐ EST

Water (check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat	
Ground Water	☐	Field Blank	☐	Freshwater Sed	☐	Shellfish	☐	Wading	☐	☒ Canoe	
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor	
Other:		Duplicate	☐	Sludge	☐						

All Other Samples unless otherwise noted	☐Other:	☐Ice	
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐ AGP ☐

Meter ID Num:	**Equipmt Used:**	**Equipmt ID Num:**
TROLL	Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other	☐ Field Cleaned

Remarks: Module number: 1306

pH < 2

GF-18

LOCATION

JACKSON LAKES NE-W

Bottom at 22ft

Lat: N Long: W

Parameter	Unit	Code	Field Value	Parameter	Unit	Code	Lab Request
Field Identity	Number	29		Conductivity Lab	UMHO	95	
Temp. Water	°C	10	14.57	pH Lab	Std. Unit	403	
Temp. Air	°C	20	20.00	Turbidity, HACH	NTU	76	5.80
Precipitation (24hr)	Inches	45		Color	PT-CO	80	
Cloud Cover	Percent	32		BOD, 5 Day	mg/L	310	
Wind Velocity	MPH	35		NFLT Residue	mg/L	530	
Wind Dir. From	Degrees	36		N-NH3, Total	mg/L	610	
Tide Stage	Code	67		Un-Ionized NH3	mg/L	619	
Water Depth, Max	Meters	82903		N-TKN	mg/L	625	
Secchi	Meters	78	—	N-NO2 +NO3	mg/L	630	
Meter Sample Depth	~~Meters~~ ft	98	22.18	Phos-Total	mg/L	665	
Conductivity Field	UMHO	94	210.0	Enterococcus	#/100mL	31649	
Salinity	PPTH	480	0.1	Total Coliform	#/100mL	31501	
DO Probe	mg/L	299	7.98	Fecal Coliform	#/100mL	31616	
DO % Saturation	Percent	301	77.7	Chlorophyll A	UG/L	32210	
pH Field	Std. Unit	400	6.61	Chlorophyll A	Corrected	32211	

Samplers: M. Taylor D. Morton	Report Prepared By:
WQ Measurements: MT Documentation: MT	Report Verified By:
Sample Collection: DM	"Samples are ambient water and not suspected to contain chlorine"

Appendix III

Agency for Toxic Substances and Disease Registry (ATSDR)
ToxFAQs for

- Dieldrin
- Endosulfan

Aldrin and Dieldrin

CAS # 309-00-2 and 60-57-1

How likely are aldrin and dieldrin to cause cancer?

There is no conclusive evidence that aldrin or dieldrin cause cancer in humans. Aldrin and dieldrin have shown to cause liver cancer in mice. The International Agency for Research on Cancer (IARC) has determined that aldrin and dieldrin are not classifiable as to human carcinogenicity. The EPA has determined that aldrin and dieldrin are probable human carcinogens.

How can aldrin and dieldrin affect children?

Children can be exposed to aldrin and dieldrin in the same way as adults. There are no known unique exposure pathways for children. Children who swallowed amounts of aldrin or dieldrin much larger than those found in the environment suffered convulsions and some died, as occurred in adults. However, we do not know whether children are more susceptible than adults to the effects of aldrin or dieldrin.

We do not know whether aldrin or dieldrin cause birth defects in humans. Pregnant animals that ingested aldrin or dieldrin had some babies with low birth weight and some with alterations in the skeleton. Dieldrin has been found in human breast milk, therefore, it can be passed to suckling infants.

How can families reduce their risk for exposure to aldrin and dieldrin?

- Since aldrin and dieldrin are no longer produced or used, exposure to these compounds will occur only from past usage.
- Because aldrin and dieldrin were applied to the basement of some homes for termite protection, before buying a home families should investigate what, if any, pesticides have been used within the home.

Is there a medical test to show whether I've been exposed to aldrin and dieldrin?

There are laboratory tests that can measure aldrin and dieldrin in your blood, urine, and body tissues. Because aldrin changes to dieldrin fairly quickly in the body, the test has to be done shortly after you are exposed to aldrin. Since dieldrin can stay in the body for months, measurements of dieldrin can be made much longer after exposure to either aldrin or dieldrin. The tests cannot tell you whether harmful health effects will occur. These tests are not routinely available at the doctor's office because they require special equipment.

Has the federal government made recommendations to protect human health?

The EPA limits the amount of aldrin and dieldrin that may be present in drinking water to 0.001 and 0.002 milligrams per liter (mg/L) of water, respectively, for protection against health effects other than cancer. The EPA has determined that a concentration of aldrin and dieldrin of 0.0002 mg/L in drinking water limits the lifetime risk of developing cancer from exposure to each compound to 1 in 10,000.

The Occupational Safety and Health Administration (OSHA) sets a maximum average of 0.25 milligrams of aldrin and dieldrin per cubic meter of air (0.25 mg/m^3) in the workplace during an 8-hour shift, 40 hour week. The National Institute for Occupational Safety and Health (NIOSH) also recommends a limit of 0.25 mg/m^3 for both compounds for up to a 10-hour work day, 40-hour week.

The Food and Drug Administration (FDA) regulates the residues of aldrin and dieldrin in raw foods. The allowable range is from 0 to 0.1 ppm, depending on the type of food product.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 2002. Toxicological Profile for Aldrin/Dieldrin. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30333.

Phone: 1-800-232-4636

ToxFAQs™ Internet address via WWW is http://www.atsdr.cdc.gov/toxfaqs/index.asp.

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

Endosulfan - ToxFAQs™

CAS # 115-29-7

This fact sheet answers the most frequently asked health questions (FAQs) about endosulfan. For more information, call the CDC Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It's important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to endosulfan occurs mainly from eating contaminated food, but may also occur from skin contact, breathing contaminated air, or drinking contaminated water. Endosulfan affects the function of the nervous system. Endosulfan has been found in at least 176 of the 1,699 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is endosulfan?

Endosulfan is a restricted-use pesticide. It is particularly effective against aphids, fruit worms, beetles, leafhoppers, moth larvae, and white flies on a wide variety of crops.

Endosulfan is sold as a mixture of two different forms of the same chemical (referred to as α- and β-endosulfan). Technical grade endosulfan also contains endosulfan sulfate. It is a cream-to-brown-colored solid that may appear crystalline or in flakes. It has a distinct odor similar to turpentine.

Endosulfan is applied to crops by aerial or ground-level foliar spray. The use of endosulfan is being restricted to certain crops and is scheduled to be canceled for all uses by 2016.

What happens to endosulfan when it enters the environment?

- Endosulfan can travel long distances by air. Levels in air are highly variable depending on location. Rural areas tend to have higher concentrations.
- Both α- and β-endosulfan may be broken down in air by chemical reactions. Endosulfan sulfate may be broken down by sunlight.
- In water, α- and β-endosulfan change into a less toxic substance, endosulfan diol. Endosulfan sulfate is more resistant to break down in water.
- In soil, endosulfan attaches to soil particles. This limits its movement towards groundwater. Both α-and β-endosulfan break down in soil; endosulfan sulfate is more resistant.
- It can build up in the body of animals that live in endosulfan-contaminated water.

How might I be exposed to endosulfan?

- Eating food contaminated with endosulfan. The diet is the main source of exposure for the general population.
- Breathing contaminated air or drinking contaminated water.
- Touching contaminated soil or fruits or plants that have been sprayed with endosulfan will result in a small amount entering the body through the skin.
- Pesticide applicators can be exposed by inhalation or skin contact if they do not wear proper protection.

How can endosulfan affect my health?

The main target of endosulfan toxicity is the nervous system. Exposure to high amounts of endosulfan induces hyperactivity and convulsions, regardless of the route of exposure. Severe poisoning may result in death.

There are no studies of people exposed to low levels of endosulfan for long periods of time (i.e., years). Studies in animals have shown that swallowing endosulfan in contaminated food for long periods of time affects mainly the kidneys.

How likely is endosulfan to cause cancer?

Studies of occupational and environmental exposure of humans have not provided conclusive evidence that endosulfan can cause cancer. Endosulfan did not cause cancer in animal studies.

Endosulfan

CAS # 115-29-7

The Department of Health and Human Services (DHHS), the International Agency for Research on Cancer (IARC), and the EPA have not classified endosulfan as to its ability to cause cancer.

How can endosulfan affect children?

Endosulfan has been shown to affect children in the same manner as adults, causing tremors and seizures after high exposure.

We do not know whether endosulfan can produce birth defects in humans. Studies in humans have suggested associations between maternal exposure to endosulfan and autism and altered thyroid function and development of the nervous system in newborn children. Other studies suggested that direct exposure of children might be associated with blood cancer and altered sexual maturation in boys. In all these cases the evidence was suggestive but not conclusive.

Endosulfan has been detected in human breast milk, which means that it can be transferred to babies by nursing.

How can families reduce the risk of exposure to endosulfan?

- Make sure you wash fruits and vegetables before eating them.
- Prevent children from playing in an area too soon after endosulfan has been applied.
- Endosulfan is a restricted-use pesticide and should not be used for residential purposes. Make sure you ask to see a license and certification of anyone who applies endosulfan for you.
- Pesticide applicators should wash clothing, skin, and hair before going home.

Is there a medical test to show whether I've been exposed to endosulfan?

Endosulfan and its breakdown products can be measured in blood, urine, fat tissue, and breast milk. However, the detection of these substances does not necessarily mean that you will suffer adverse health effects.

Because endosulfan and its degradation products leave the body fairly rapidly, the tests need to be conducted within a few days after exposure.

Has the federal government made recommendations to protect human health?

The EPA recommends that the levels of endosulfan sulfate in lakes, rivers, and streams should not be more than 62 micrograms per liter (62 µg/L). This should prevent any harmful health effects from occurring in people who drink the water or eat fish or seafood that live in the water.

The Occupational Safety and Health Administration (OSHA) has not set a legal limit for endosulfan in workplace air.

The National Institute for Occupational Safety and Health (NIOSH) recommends a limit of 0.1 milligram per meter cubic (0.1 mg/m3) for endosulfan in workplace air averaged over a 10 hour work day.

References

This ToxFAQs™ information is taken from the 2015 Toxicological Profile for Endosulfan produced by the Agency for Toxic Substances and Disease Registry, Public Health Service, U.S. Department of Health and Human Services, Public Health Service in Atlanta, GA.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636.

ToxFAQs™ on the web: www.atsdr.cdc.gov/toxFAQs

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.