

Effluent Quality Assessment

AAR Manufacturing, Inc.

Pinellas County

NPDES # FL0680478

Sampled August 18, 2014

October 2014

Biology Section

Bureau of Laboratories

Division of Environmental Assessment and Restoration

2014 FDEP Bureau of Laboratories Quality Manual

NELAC Certification No. E31780

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AAR Manufacturing, Inc., 14201 Myerlake Circle, Clearwater, Pinellas County, Florida, 33760. NPDES #FL0680478.

Facility Overview

AAR Manufacturing, Inc., is a manufacturer of interior parts for military and personal aircraft. See Appendix A for a description of the facility, summary of permit limits, Administrative Order (AO) and Discharge Monitoring Report (DMR) information.

Methods

Effluent grab samples for toxicity testing, biological analyses and chemical analyses were collected on August 18, 2014. All samples were collected from the EFF-01 NPDES sampling point for Outfall D-001 by Jacki Champion (FDEP Southwest District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling (see Appendix B).

The 96-hour acute definitive toxicity tests and algal growth potential test were performed following internal DEP SOPs TA07_01, TA07_02, and TA08_01 through TA08_09 (see Appendix B). Due to an organism shipping issue, the fish test was set up after the 36-hour hold time had expired. Appropriate Southwest District and FDEP Headquarters personnel were contacted concerning the shipping issue and consequentially the hold-time issue. The lab was authorized to perform the fish bioassay with "expired" 48-hour old sample (note: with permitting authority (FDEP) authorization, bioassay samples can be held up to 72 hours before first use).

Results

Chemistry Results (See Table 1, Table 2, Table 3 and Appendix C)

- The total ammonia concentration in the composite sample collected and preserved for chemical analysis was 0.34 mg N/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.
- Turbidity, alkalinity, arsenic, copper and iron were detected in the effluent at levels that comply with Class III Fresh Water Quality Criteria (62-302.530, F.A.C.) and/or permit limits. Carbonaceous biochemical oxygen demand (CBOD), fluoride, oils and greases, aluminum and nickel were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

Algal Growth Potential (See Table 4 and Appendix C)

- The effluent Algal Growth Potential (AGP) was 23.8 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Schultz (1987) determined that AGP values above 5.0 mg dry weight/L, which represents a "problem" threshold for fresh receiving waters, imply nutrient enrichment. The analytical chemistry suggests that the effluent is co-limited by both nitrogen and phosphorus (Miller et al. 1978).

Toxicity Test Results (See Appendix C)

- Tests were performed August 19 - 24, 2014.

Ceriodaphnia dubia 96-hour acute definitive bioassay –	LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours
Pimephales promelas 96-hour acute definitive bioassay –	LC_{50} > 100%, 0%* mortality in 100% sample at 96 hours

*NOTE: In a 96-hour acute definitive test of 100% effluent, mortality of <20% provides confidence that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule 62-302.500 (1) (a) 4, F.A.C.). Mortality between 20-50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3) (a), F.A.C.).

- The bioassay samples were not acutely toxic to the test organisms.

Conclusion

The effluent sample collected from the EFF-01 NPDES sampling point for this facility on August 18, 2014, was not acutely toxic to either test species during the 96-hour acute definitive bioassays. The effluent AGP result was greater than the "problem" threshold for fresh receiving waters suggesting that nutrient enrichment may be an issue. Effluent water quality samples collected on August 18, 2014, did not exceed any applicable water quality standards or violate any permit conditions.

For additional information concerning this sampling event, including bioassay bench sheets and SRT data, please contact Diane.Power@dep.state.fl.us and/or Joseph.Faircloth@dep.state.fl.us.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Manahan, S. E. 1994. Environmental Chemistry, 6th edition. Lewis Publishers, USA. 811 pp

Stevenson, R. J. and L. L. Bahls. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

USEPA. 2002. Methods for measuring the acute toxicity of effluents to freshwater and marine organisms. 5th edition. EPA-821-R-02-012.

USEPA. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Effluent limits, Class III Freshwater Criteria and field parameters

AAR Manufacturing, Inc.	Units	Class III Criteria	Effluent Permit Limits	D-001
Temperature	°C	-	Report	32.6
pH	SU	6.0 - 8.5 s	6.0 - 8.5 s	7.44
Specific Conductance	umhos/cm	≤ 1,275	-	363
Salinity	ppth	-	-	0.2 c
Dissolved Oxygen	% saturation	≥ 38	-	78.2
Dissolved Oxygen	mg/L	≥ 5.0 s	≥ 5.0 s	5.7
Flow (June 2013 -June 2014)	MGD	Report	-	0.05004 a
Total Residual Chlorine	mg/L	≤ 0.01	-	< 0.03 QU[1]

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.

e - Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average

c - Value is calculated

s - Single sample

Q - Sample held beyond normal holding time

U - Material analyzed for but not detected; value reported is the method detection limit

1 - measurement taken in the FDEP laboratory

Table 2. Effluent limits, Class III Freshwater Criteria and analytical water chemistry data

AAR Manufacturing, Inc.	Units	Class III Criteria	Effluent Permit Limits	D-001
Ortho-phosphate	mg P/L	-	-	0.032
Total Phosphorus	mg P/L	-	-	0.071
Total Ammonia	mg N/L	-	Report	0.34
Un-ionized Ammonia (calculated salinity)	mg/L	≤ 0.02 s	≤ 0.02 s	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.13
Total Kjeldahl Nitrogen	mg N/L	-	-	1
Organic Nitrogen	mg N/L	-	-	1 c
Total Nitrogen	mg N/L	-	-	1 c
Total Organic Carbon	mg C/L	-	-	8.3
Chlorophyll *a* - Corrected	ug/L	-	-	9.3
Phaeophytin	ug/L	-	-	17
CBOD, 5 day, N - inhibited	mg/L	-	-	1.5 I
Hardness	mg CaCO3/L	-	-	129 c
Total Suspended Solids	mg/L	-	-	2 I
Turbidity	NTU	< 29 t	-	2.0 A
Color (true)	PCU	-	-	30 A
Alkalinity	mg CaCO3/L	≥ 20	-	99
Chloride	mg Cl/L	-	-	29
Fluoride	mg F/L	≤ 10.0	-	0.081 I
Sulfate	mg SO4/L	-	-	18
Oils and Greases	mg/L	≤ 5.0	-	0.93 I
Toxicity (Acute Definitive, percent LC50)				
Bioassay - Water flea *(Ceriodaphnia dubia)*	%	≥ 100	-	100 LY
Bioassay – Fish (Pimephales promelas)	%	≥ 100	-	100 JLQY

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
e - Value exceeds the Class III Water Quality Criteria or permit limits
c - Value is calculated
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
L - Actual value is known to be greater than value given
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

Table 3. Effluent limits, Class III Freshwater Criteria and analytical metals data

AAR Manufacturing, Inc.	Units	Class III Criteria	Effluent Permit Limits	D-001
Hardness	mg CaCO3/L	-	-	129 c
Aluminum	ug/L	-	-	17 I
Arsenic	ug/L	≤ 50	-	1.79
Cadmium	ug/L	≤ 0.326 b	-	0.050 U
Calcium	mg/L	-	-	44.8
Chromium, Total [1]	ug/L	≤ 106 b	-	0.30 U
Copper	ug/L	≤ 11.6 b	-	7.19
Iron	ug/L	≤ 1,000	-	530
Lead	ug/L	≤ 4.39 b	-	0.20 U
Magnesium	mg/L	-	-	4.08
Nickel	ug/L	≤ 64.6 b	-	0.71 I
Potassium	mg/L	-	-	4.2
Selenium	ug/L	≤ 5.0	-	0.20 U
Silver	ug/L	≤ 0.07	-	0.025 U
Sodium	mg/L	-	-	16.5
Zinc	ug/L	≤ 148 b	-	5.0 U

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
e -Value exceeds the Class III Water Quality Criteria or permit limits
1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III
b - Value is calculated based on hardness, (62-302.530(3))
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit

Table 4. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus

AAR Manufacturing, Inc.								
Location	**Test Species**	**AGP (measured)**	**Predicted AGP (TSIN) ± 20%**	**Predicted AGP (OP) ± 20%**	**Predicted AGP (TN) ± 20%**	**Predicted AGP (TP) ± 20%**	**Inorganic N:P ratio**	**Total N:P ratio**
D-001	*Pseudokirchneriella subcapitata*	23.8	17.9 ± 3.6	13.8 ± 2.8	42.9 ± 8.6	30.5 ± 6.1	14.7	15.9

Fresh - freshwater species *Pseudokirchneriella subcapitata*

Appendix A

Facility Summary

State of Florida

Department of Environmental Protection Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Roger Evans	**Contact Number:** 813-470-5867
Facility Name (as it appears on permit): AAR Manufacturing, Inc.	**Former Names:** AAR Manufacturing Group, Inc.; AAR Composites, Inc.
NPDES Permit Number: FL0680478	**Permit Expiration Date:** May 24, 2015
Physical Address: 14201 Myerlake Circle, Clearwater, Florida 33760	
District: SWD	**County:** Pinellas
Function of Facility: Manufacturing of interior parts for military and personal aircrafts.	
Facility Type: Industrial Wastewater	**Permitted Capacity (MGD):** N/A
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 0.050040 MGD (July 2013 – June 2014) Note: Flow data was not available in July 2013 and October 2013 due to equipment failure.	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): N/A	
Description of type of Discharge: ☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s):

Monitoring Site Number	Description of Monitoring Site
EFF-1	At the point of discharge of Outfall pipe D-001 located approximately 5 meters adjacent to the intake
FLW-1	At the inline meter installed on the influent line

Description of Permitted Outfall(s):
Surface Water Discharge D001:

The outfall pipe D-001 discharges once–through non-contact cooling water back to the stormwater pond, which ultimately discharges into Tampa Bay Cross Canal (North), Class III Fresh Waters, (WBID# 1625). The point of discharge is located approximately at latitude 27°53' 60" N, longitude 82°42' 30" W

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):

This facility uses water supplied by a stormwater pond to cool an industrial autoclave. The water is pumped from the pond using a submerged intake pipe. The water is fed through a cartridge filter prior to entering cooling coils within the autoclave. The once–through non-contact cooling water is then discharged back to the stormwater pond via an outfall pipe.

PART I: Continued

List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under
(Leave cell blank if not applicable)

During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge once-through non-contact cooling water from Outfall D-001 to Tampa Bay Cross Canal (North). Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Annual Average Monthly Total	Continuous	Meter	FLW-1	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-1	I.A.4
Nitrogen, Ammonia, Total unionized (as NH_3)	mg/L	Max	0.02	Daily Maximum	Monthly	Calculated	EFF-1	I.A.4
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Monthly	Instantaneous	EFF-1	I.A.4
Temperature (C), Water	Deg C	Max	Report	Daily Maximum	Monthly	Instantaneous	EFF-1	I.A.4
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Daily Minimum	Monthly	Instantaneous	EFF-1	

PART I: Continued

Receiving Waters: Tampa Bay Cross Canal (North)	**Classification (indicate whether fresh or marine):** Class III Fresh Waters

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.): N/A

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): N/A

Facility Mixing Zone Details (if applicable): N/A

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:

Date	Parameter and Units	Limit	Result
5/31/2014	pH (s.u.)	6.0 – 8.5	9.1

Describe previous FYI and WQBEL study: No previous FYI

Describe previous or current Enforcement Actions (including WLs): None

Describe any violations or problems noted in previous inspection: The facility was not collecting daily flow measurements (January 2013 – July 2013) as the inline flow meter was not working. The flow meter was replaced in August 2013.

Discuss whether DMR trends within previous five years are improving or declining: No trending

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information

Date(s) sample collected: August 18, 2014	**Sampler(s):** Jacki Champion, Roger Evans
Temperature (Deg C): 32.60	**pH (SU):** 7.44
Dissolved Oxygen (mg/L): 5.70	**Conductivity (umhos/cm):** 363
Total Residual Chlorine (mg/L): N/A	**Total Residual Chlorine - after Disinfection (mg/L):** N/A
Method of Chlorination: N/A	**Method of De-chlorination:** N/A

Flow During Sample Collection for each outfall(MGD): 60 gallons per hour

Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day):
0.050040 MGD (July 2013 – June 2014)
Note: Flow data was not available in July 2013 and October 2013 due to equipment failure.

Describe Discharge during Sampling Event:
Continuous **Intermittent** **Seasonal** **Rainfall Dependent** **Other, please specify**

Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here: None

Appendix B

Explanation of Measurements

(1) Quality Assurance and Quality Control

FDEP's quality assurance requirements for analytical laboratories and field activities are codified in Chapter 62-160, F.A.C., Quality Assurance (QA Rule) and in internal Standard Operating Procedures (FDEP SOPs). Methods for all analyses are on file at the FDEP Central Laboratory in Tallahassee and may be viewed on the web at http://www.dep.state.fl.us/labs/library/lab_sops.htm and/or http://www.dep.state.fl.us/water/sas/sop/sops.htm.

(2) Chemical Analyses of the Effluent

The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following FDEP SOPs. The results from these analyses were compared with Water Quality Criteria (62-302, F.A.C.) and facility permit limits.

(3) Toxicity Bioassays

Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 62-302.500(1)a and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of 62-302.530(20), 62-302.530(61) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of 62-302.530(61) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

(4) Bacteriological Testing

High levels of fecal coliform bacteria may constitute an exceedance of 62-302.530(6) and/or facility permit limits. Fecal coliform and enterococci results often are based on colony counts outside the acceptable range (B-qualifier). The dilutions performed on the sample did not yield results within the method acceptable range of 20- 60 colony forming units per plate. The B-qualifier does not affect data quality.

(5) Chlorophyll *a* Content

Chlorophyll *a* content is an estimate algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., and/or 62-302.530(47)(b), F.A.C..

(6) Algal Growth Potential (AGP)

The algal growth potential (AGP) value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. Raschke and Shultz (1987) found that an AGP above 10.0 mg dry weight/L represents a “problem” threshold for marine receiving waters, implying nutrient enrichment. High AGP values may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C. and/or 62-302.530(47)(b), F.A.C..

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP in a low salinity sample under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of $\pm$ 20%. When the ratio of nitrogen to phosphorus (N:P) is less than 10:1, nitrogen limitation of algal production is likely. When the N:P ratio is 20:1 or greater, phosphorus limitation is likely (EPA-822-B-00-002). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of 62-302.530(61) F.A.C. Expected AGP is not calculated for marine samples incubated with *Dunaliella*.

(7) Definition of Qualifiers

A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptable range.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J - Estimated value
K - Actual value is known to be less than value given
L - Actual value is known to be greater than value given
N - Presumptive evidence of presence of material.
O - Sampled, but analysis lost or not performed.
Q - Sample held beyond normal holding time.

T - Value reported is less than the criterion of detection.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
V - Analyte was detected in both sample and method blank.
X - Too few individuals to calculate SCI value.
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate
Z - Colonies were too numerous to count (TNTC)

Appendix C

Chemical analysis of effluent

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 9:55	D-001	AGP/LN	Algal Growth Potential	23.8	mg DryWt/L	0.3	0.9
8/18/2014 9:55	D-001	Chlorophyll/Grain Size/BOD	Phaeophytin-a	17	ug/L	0.43	1.3
8/18/2014 9:55	D-001	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.5 I	mg/L	0.2	2
8/18/2014 9:55	D-001	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	9.3	ug/L	0.59	1.8
8/18/2014 9:55	D-001	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 LY	LC50		
8/18/2014 9:55	D-001	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 JLQY	LC50		
8/18/2014 9:55	D-001	Metals	Arsenic	1.79	ug/L	0.25	1
8/18/2014 9:55	D-001	Metals	Aluminum	17 I	ug/L	5	20
8/18/2014 9:55	D-001	Metals	Sodium	16.5	mg/L	0.5	2
8/18/2014 9:55	D-001	Metals	Copper	7.19	ug/L	0.5	1
8/18/2014 9:55	D-001	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
8/18/2014 9:55	D-001	Metals	Lead	0.20 U	ug/L	0.2	0.8
8/18/2014 9:55	D-001	Metals	Nickel	0.71 I	ug/L	0.25	1
8/18/2014 9:55	D-001	Metals	Selenium	0.20 U	ug/L	0.2	0.8
8/18/2014 9:55	D-001	Metals	Potassium	4.2	mg/L	0.3	1.2
8/18/2014 9:55	D-001	Metals	Zinc	5.0 U	ug/L	5	20
8/18/2014 9:55	D-001	Metals	Silver	0.025 U	ug/L	0.025	0.1
8/18/2014 9:55	D-001	Metals	Iron	530	ug/L	30	120
8/18/2014 9:55	D-001	Metals	Chromium	0.30 U	ug/L	0.3	1.2
8/18/2014 9:55	D-001	Metals	Magnesium	4.08	mg/L	0.04	0.16
8/18/2014 9:55	D-001	Metals	Calcium	44.8	mg/L	0.075	0.3
8/18/2014 9:55	D-001	Nutrients	Organic Carbon	8.3	mg C/L	0.5	1
8/18/2014 9:55	D-001	Nutrients	Chloride	29	mg Cl/L	0.2	0.5
8/18/2014 9:55	D-001	Nutrients	Total-P	0.071	mg P/L	0.005	0.05
8/18/2014 9:55	D-001	Nutrients	Turbidity	2.0 A	NTU	0.1	0.1
8/18/2014 9:55	D-001	Nutrients	Sulfate	18	mg SO4/L	0.2	0.5
8/18/2014 9:55	D-001	Nutrients	Alkalinity	99	mg CaCO3/L	0.65	2.5
8/18/2014 9:55	D-001	Nutrients	TSS	2 I	mg/L	2	10
8/18/2014 9:55	D-001	Nutrients	Kjeldahl Nitrogen	1	mg N/L	0.08	0.2
8/18/2014 9:55	D-001	Nutrients	NO2NO3-N	0.13	mg N/L	0.004	0.01
8/18/2014 9:55	D-001	Nutrients	Ammonia-N	0.34	mg N/L	0.01	0.025
8/18/2014 9:55	D-001	Nutrients	Fluoride	0.081 I	mg F/L	0.035	0.1
8/18/2014 9:55	D-001	Nutrients	Color (true)	30 A	PCU	2.5	6
8/18/2014 9:55	D-001	Nutrients	O-Phosphate-P	0.032	mg P/L	0.004	0.01
8/18/2014 9:55	D-001	Overflow	Oil and Grease	0.93 I	mg/L	0.72	2.6

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 9:55	D-001	Pesticides	Metribuzin	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Prometryn	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Demeton	0.024 UJ	ug/L	0.024	0.096
8/18/2014 9:55	D-001	Pesticides	Disulfoton	0.0050 U	ug/L	0.005	0.02
8/18/2014 9:55	D-001	Pesticides	Fonofos	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Metalaxyl	0.040 U	ug/L	0.04	0.16
8/18/2014 9:55	D-001	Pesticides	Mevinphos	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Alachlor	0.060 U	ug/L	0.06	0.24
8/18/2014 9:55	D-001	Pesticides	Atrazine Desethyl	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Chlorpyrifos Ethyl	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Ethoprop	0.0050 U	ug/L	0.005	0.02
8/18/2014 9:55	D-001	Pesticides	Bromacil	0.040 U	ug/L	0.04	0.16
8/18/2014 9:55	D-001	Pesticides	Atrazine Desisopropyl	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Fenamiphos	0.030 UJ	ug/L	0.03	0.12
8/18/2014 9:55	D-001	Pesticides	Parathion Ethyl	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Prometon	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Metolachlor	0.060 U	ug/L	0.06	0.24
8/18/2014 9:55	D-001	Pesticides	Diazinon	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Chlorpyrifos Methyl	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Butylate	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Azinphos Methyl	0.020 U	ug/L	0.02	0.08
8/18/2014 9:55	D-001	Pesticides	Phorate	0.0050 U	ug/L	0.005	0.02
8/18/2014 9:55	D-001	Pesticides	Naled	0.040 U	ug/L	0.04	0.16
8/18/2014 9:55	D-001	Pesticides	Malathion	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Simazine	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Hexazinone	0.030 UJ	ug/L	0.03	0.12
8/18/2014 9:55	D-001	Pesticides	Ametryn	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Parathion Methyl	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Norflurazon	0.030 U	ug/L	0.03	0.12
8/18/2014 9:55	D-001	Pesticides	Atrazine	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Pesticides	Ethion	0.010 U	ug/L	0.01	0.04
8/18/2014 9:55	D-001	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	ug/L	1.9	7.6
8/18/2014 9:55	D-001	Priority Organic Pollutants	4-Nitrophenol	14 UJ	ug/L	14	57
8/18/2014 9:55	D-001	Priority Organic Pollutants	Anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	ug/L	1.9	7.6
8/18/2014 9:55	D-001	Priority Organic Pollutants	Butyl benzyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Dimethyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Hexachlorobenzene	0.95 UJ	ug/L	0.95	3.8

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.38 U	ug/L	0.38	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Diethyl phthalate	0.95 UJ	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,4-Dinitrotoluene	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Acenaphthene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzidine	95 U	ug/L	95	380
8/18/2014 9:55	D-001	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Di-n-octyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.6
8/18/2014 9:55	D-001	Priority Organic Pollutants	Naphthalene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Hexachloroethane	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 UJ	ug/L	1.9	7.6
8/18/2014 9:55	D-001	Priority Organic Pollutants	Nitrobenzene	1.9 U	ug/L	1.9	7.6
8/18/2014 9:55	D-001	Priority Organic Pollutants	Pentachlorophenol	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,4-Dimethylphenol	9.5 U	ug/L	9.5	38
8/18/2014 9:55	D-001	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	Fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Hexachlorobutadiene	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	2-Chlorophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	2-Nitrophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	Di-n-butyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Fluorene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Phenanthrene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Phenol	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,4-Dinitrophenol	14 UJ	ug/L	14	57
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,6-Dinitrotoluene	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	2-Chloronaphthalene	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38 U	ug/L	38	150

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 9:55	D-001	Priority Organic Pollutants	Acenaphthylene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Chrysene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	Isophorone	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U	ug/L	2.9	11
8/18/2014 9:55	D-001	Priority Organic Pollutants	Pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 9:55	D-001	Priority Organic Pollutants	2,4-Dichlorophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 9:55	D-001	Nutrients	Dissolved Oxygen	5.7	mg/L		
8/18/2014 9:55	D-001	Nutrients	Specific Conductance	363	umhos/cm		
8/18/2014 9:55	D-001	Nutrients	Temperature	32.6	C		
8/18/2014 9:55	D-001	Nutrients	pH	7.44			
8/18/2014 11:10	Blank	Metals	Sodium	0.50 U	mg/L	0.5	2
8/18/2014 11:10	Blank	Metals	Arsenic	0.25 U	ug/L	0.25	1
8/18/2014 11:10	Blank	Metals	Aluminum	5.0 U	ug/L	5	20
8/18/2014 11:10	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
8/18/2014 11:10	Blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
8/18/2014 11:10	Blank	Metals	Iron	30 U	ug/L	30	120
8/18/2014 11:10	Blank	Metals	Lead	0.20 U	ug/L	0.2	0.8
8/18/2014 11:10	Blank	Metals	Silver	0.025 U	ug/L	0.025	0.1
8/18/2014 11:10	Blank	Metals	Zinc	5.0 U	ug/L	5	20
8/18/2014 11:10	Blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
8/18/2014 11:10	Blank	Metals	Copper	0.50 U	ug/L	0.5	1
8/18/2014 11:10	Blank	Metals	Potassium	0.30 U	mg/L	0.3	1.2
8/18/2014 11:10	Blank	Metals	Cadmium	0.050 U	ug/L	0.05	0.2
8/18/2014 11:10	Blank	Metals	Chromium	0.30 U	ug/L	0.3	1.2
8/18/2014 11:10	Blank	Metals	Nickel	0.25 U	ug/L	0.25	1
8/18/2014 11:10	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
8/18/2014 11:10	Blank	Nutrients	Fluoride	0.035 U	mg F/L	0.035	0.1
8/18/2014 11:10	Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
8/18/2014 11:10	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
8/18/2014 11:10	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
8/18/2014 11:10	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
8/18/2014 11:10	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.5
8/18/2014 11:10	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
8/18/2014 11:10	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.2	0.5
8/18/2014 11:10	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
8/18/2014 11:10	Blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.1

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 11:10	Blank	Nutrients	Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
8/18/2014 11:10	Blank	Overflow	Oil and Grease	0.73 U	mg/L	0.73	2.6
8/18/2014 11:10	Blank	Pesticides	Atrazine Desethyl	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Diazinon	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Ethion	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Metolachlor	0.057 U	ug/L	0.057	0.23
8/18/2014 11:10	Blank	Pesticides	Butylate	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Pesticides	Hexazinone	0.029 UJ	ug/L	0.029	0.11
8/18/2014 11:10	Blank	Pesticides	Malathion	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Prometon	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Pesticides	Ametryn	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Azinphos Methyl	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Pesticides	Disulfoton	0.0048 U	ug/L	0.0048	0.019
8/18/2014 11:10	Blank	Pesticides	Ethoprop	0.0048 U	ug/L	0.0048	0.019
8/18/2014 11:10	Blank	Pesticides	Parathion Methyl	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Phorate	0.0048 U	ug/L	0.0048	0.019
8/18/2014 11:10	Blank	Pesticides	Atrazine Desisopropyl	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Chlorpyrifos Ethyl	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Fenamiphos	0.029 UJ	ug/L	0.029	0.11
8/18/2014 11:10	Blank	Pesticides	Naled	0.038 U	ug/L	0.038	0.15
8/18/2014 11:10	Blank	Pesticides	Simazine	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Chlorpyrifos Methyl	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Metribuzin	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Pesticides	Mevinphos	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Alachlor	0.057 U	ug/L	0.057	0.23
8/18/2014 11:10	Blank	Pesticides	Atrazine	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Metalaxyl	0.038 U	ug/L	0.038	0.15
8/18/2014 11:10	Blank	Pesticides	Norflurazon	0.029 U	ug/L	0.029	0.11
8/18/2014 11:10	Blank	Pesticides	Bromacil	0.038 U	ug/L	0.038	0.15
8/18/2014 11:10	Blank	Pesticides	Demeton	0.023 UJ	ug/L	0.023	0.091
8/18/2014 11:10	Blank	Pesticides	Fonofos	0.0095 U	ug/L	0.0095	0.038
8/18/2014 11:10	Blank	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.076
8/18/2014 11:10	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.5 U	ug/L	9.5	38
8/18/2014 11:10	Blank	Priority Organic Pollutants	4-Nitrophenol	14 UJ	ug/L	14	57

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 11:10	Blank	Priority Organic Pollutants	Anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.95 UJ	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Phenol	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Diethyl phthalate	0.95 UJ	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9 UJ	ug/L	1.9	7.6
8/18/2014 11:10	Blank	Priority Organic Pollutants	Phenanthrene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.38 U	ug/L	0.38	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38 U	ug/L	38	150
8/18/2014 11:10	Blank	Priority Organic Pollutants	Pentachlorophenol	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	Nitrobenzene	1.9 U	ug/L	1.9	7.6
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Acenaphthylene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	14 UJ	ug/L	14	57
8/18/2014 11:10	Blank	Priority Organic Pollutants	2-Nitrophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9 U	ug/L	1.9	7.6
8/18/2014 11:10	Blank	Priority Organic Pollutants	Acenaphthene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Chrysene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Isophorone	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 U	ug/L	1.9	7.6
8/18/2014 11:10	Blank	Priority Organic Pollutants	Fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	Hexachloroethane	2.9 U	ug/L	2.9	11

Date Sampled	Field ID	Analysis Group	Components	Result	Units	MDL	PQL
8/18/2014 11:10	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	Naphthalene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzidine	95 U	ug/L	95	380
8/18/2014 11:10	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9 U	ug/L	2.9	11
8/18/2014 11:10	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.19 U	ug/L	0.19	0.76
8/18/2014 11:10	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.6
8/18/2014 11:10	Blank	Priority Organic Pollutants	2-Chlorophenol	0.95 U	ug/L	0.95	3.8
8/18/2014 11:10	Blank	Priority Organic Pollutants	Fluorene	0.19 U	ug/L	0.19	0.76

EPA End Sheet

The Bioassay of AAR Manufacturing, Inc., effluent sampled on August 18, 2014. NPDES #FL0680478.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0680478 11	12 140818	18 **B**	19 **S**	20 2

Remarks

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The Priority Pollutants Analysis of AAR Manufacturing, Inc., effluent sampled on August 18, 2014. NPDES #FL0680478.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0680478 11	12 140818	18 **X**	19 **S**	20 2

Remarks

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Biological Analyses of AAR Manufacturing, Inc., effluent sampled on August 18, 2014. NPDES #FL0680478.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0680478 11	12 140818	18 **S**	19 **S**	20 2

Remarks

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