

Biological Assessment of

Pensacola Beach WWTF

Escambia County

NPDES #FL0024007

Sampled July 22 and August 1, 2013

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Biology Section

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Facility Overview

The Pensacola Beach Wastewater Treatment Facility is an Advanced Domestic Wastewater Treatment (AWT) plant. The effluent discharge pipe extends approximately 400 feet offshore and discharges through a 70 feet long, closed end diffuser into a portion of Santa Rosa Sound that is classified as a Class III Marine Water and as an Outstanding Florida Waters due to its being within the boundaries of the Gulf Islands National Seashore (see map Appendix A). The permitted design flow of the wastewater system is 2.4 million gallons per day (MGD) (monthly average daily flow). The total flow to Santa Rosa Sound on the day the samples were collected was 0.97 MGD. The mean flow for the previous 12 months (4/2012 to 5/2013) for all external outfalls listed in the permit was 0.793 MGD (Northwest District Office, Pensacola).

Biological assessments are prepared by FDEP staff to provide information for review of NPDES permit renewal applications. Biological assessments, in conjunction with other information concerning the subject facility and its receiving-water body, are used to determine appropriate permit conditions.

See the Facility Summary (Appendix B) for a description of the facility, a summary of permit limits, and Consent Order (CO) and Discharge Monitoring Report (DMR) information.

Methods

The purpose of this investigation was to determine the discharger's effects on the biota of the receiving waters. Chemical and biological comparisons were made along a gradient at 200 foot intervals at 2 sites west (200 West and 400 West) and 2 sites east (200 East and 400 East) of the point of discharge (POD) which is located approximately at latitude 30°20'12"N, longitude 87°07'56"W. The western site samples for surface water parameters were collected on 7/22/2013. The surface water samples for the eastern sites were collected on 8/1/2013 because inclement weather prevented their collection on 7/22/2013. All four sites (eastern and western) were sampled on 8/2/2013 for invertebrates, sediment metals, and particle grain size analysis. All the samples were collected during high tide on 7/22/2013 and on 8/1/2013. Effluent composite samples, effluent grab samples, and effluent samples for bioassay tests were taken from monitoring station EFF-01.

All field and laboratory biological methods followed Bureau of Laboratories and Biology Section Standard Operating Procedures (see http://www.dep.state.fl.us/labs/library/lab_sops.htm and http://www.dep.state.fl.us/water/sas/sop/sops.htm for details) and met DEP quality assurance/quality control standards (see http://www.dep.state.fl.us/water/sas/qa/index.htm). Explanations of specific methods and measurements can be found in Appendix C.

The following were involved in this investigation: Nathan Mulkey, Rick Abad, and Mike King (DEP NW District), the FDEP Central Laboratory in Tallahassee, Water and Air, Inc, in Gainesville, and the University of West Florida in Pensacola. The report was reviewed by District representatives and the Point Source Studies Review Committee (Mike Tanski, Andrew Tintle, and Jennifer Weger).

Results

Organic Constituents - Water (See Table 1a and Appendix F)

- Atrazine was measured in the receiving water site samples (400 West, 200 West, 200 East, 400 East) at levels between the method detection limit (MDL) and the practical quantitation limit (PQL). It was not detected in the effluent grab sample.
- Sucralose was detected in the effluent grab sample and all 4 receiving water sites (400 West, 200 West, 200 East, 400 East).
- 1,4 dioxane was detected in the effluent grab sample and at site 200 West.
- No organic constituents were detected in the field blank.

Metals - Water (See Table 2 and Appendix F)

- All metals detected in the effluent and receiving water samples were present at levels that complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits.
- Metals were not detected in the field blank.

Toxicity Whole Effluent Test (See Table 1a)

- Chronic definitive 7-day toxicity tests were performed July 23 through July 29, 2013 on the fish, *Pimephales promelas,* and the water flea, *Ceriodaphnia dubia*.
- The results of these bioassay tests indicated no toxicity or chronic effects on growth (fish) or reproduction (water flea) to these animals.
- To obtain a copy of the toxicity raw data sheets, please call the Biology Laboratory at 850-245-8177.

Physical and Chemical Parameters (See Table 1a, Table 1b, and Appendices D, E, and F)

- Rip-rap and vertical seawalls line the shores. The bottom sediments are categorized as anaerobic mud at 400 East, 200 East, and 200 West while they are a mixture of sand and mud at 400 West. The sites have mostly natural runoff with a few, small stormwater sources.
- There were moderate sediment oils and an anaerobic odor at all sites except 400 West which had neither.
- Dissolved oxygen (mg/L) and pH (Standard Units) of the effluent and the surface receiving water sites complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits. However, depth profile measurements were also collected of the dissolved oxygen (mg/L) near the surface, mid-depth, and near the bottom. The bottom measurement was made at 4.5 m deep, at all four receiving water sites and was less than or equal to 2.5 mg/L, which does not meet the minimum Class III Marine Water Quality Criterion (62-302.530(30), F.A.C.). The low DO indicates an almost anoxic benthic environment. Stratification in the water column caused by denser, higher salinity water on the bottom with less dense, less saline overlying water, could result in less mixing and low bottom dissolved oxygen levels. The surface and mid depth dissolved oxygen measurements were above 5.0 mg/L except for a 4.7 mg/L value at mid-depth at 200 West. The latter reading does not meet the minimum Class III Marine Water Quality Criterion (62-302.530(30), F.A.C.).
- The vertical physical and chemical measurements were taken on 7/22/2013 at the western sites. A windy, heavy thunderstorm came up which delayed the collection of the profile data at the eastern sites until 8/1/2013. The depth profile data for the western sites is more uniform than that of the eastern sites, possibly indicating that the storm conditions were mixing the usually stratified water column. At the eastern sites, the conductivities and salinities at the 4.5 m depths are twice those near the surface which may indicate that the freshwater effluent rises to and resides near the surface of the water column.
- Total residual chlorine (TRC) was measured in the FDEP laboratory for each of the three toxicity bioassay samples and was < 0.03 mg/L for all three samples (U-, Q-, and £-qualifiers).
- Chlorophyll *a* was not detected in the effluent but was detected in the four receiving water sites at low levels.
- Total suspended solids (TSS; mg/L) and Carbonaceous Biochemical Oxygen Demand (CBOD; mg/L) were detected in the effluent grab samples between the MDL and PQL and complied with effluent permit limits.
- Turbidity (NTU) and fluoride (mg/L) were detected in the effluent and grab samples from all four receiving water sites in amounts that complied with Class III Marine Water Quality Criteria.

Microbiology (See Table 1a and Appendix F)

- Enterococci were undetected in the effluent grab sample which complies with the permit single sample effluent limit.
- Fecal coliforms were not detected in the effluent grab sample nor in the samples from 3 of the 4 receiving water sites. Site 400 East fecal coliforms were detected at levels that complied with the Class III Marine Water Quality Criterion (62-302.530(6), F.A.C.).

Nutrients (See Table 1 and Appendices F)

- Nutrient concentrations in the effluent complied with permit limits. Nutrient concentrations were higher in the effluent than in the receiving waters. Nutrient concentrations were similar at all receiving water sites.
- Nitrate+Nitrite was detected in the field blank at a level between the MDL and PQL.

Algal Growth Potential (See Table 3 and Appendix F)

- Raschke and Schultz (1987) found that AGP values above 5.0 mg dry weight/L represent a “problem” threshold for fresh receiving waters, implying nutrient enrichment. This effluent sample value was below the freshwater problem threshold. The ratio of total nitrogen to total phosphorus suggests that the effluent is nitrogen limited.

- Raschke and Shultz (1987) determined that AGP values above 10.0 mg dry weight/L, which represents a "problem" threshold for marine receiving waters, imply nutrient enrichment. The AGP of the salinity-adjusted effluent was below the marine problem threshold.
- The AGPs of the receiving water samples were undetected (U-qualifier) and therefore below the marine problem threshold. The samples for the eastern sites were held beyond the normal holding time (Q-qualifier).

Sediments (See Table 4, Figures 1 and 2, and Appendix F)

- The sediment analysis results show that the particle size distribution east of the outfall has a much larger silt/clay fraction (85% 400 East; 63% 200 East; 15% 200 West; 3% 400 West) and higher organic content than the sites west of the outfall.
- Ten Polycyclic Aromatic Hydrocarbon (PAH) constituents were detected at levels between the method detection limit (MDL) and the practical quantitation limit (PQL) at the eastern sites (400 East, 10 detects; 200 East, 6 detects). There were no PAH constituents detected in the western site samples. For those constituents with TEL or PEL guidelines (MacDonald, 1994), none were exceeded.
- Diethyl phthalate was detected at levels between the MDL and PQL at all four receiving water sites. None of the values exceeded the TEL or PEL guidelines (MacDonald, 1994).
- Sediment metal analysis shows an increasing gradient from west to east, with similar concentrations at the 400 and 200 West Sites, increasing to slightly higher concentrations at the 200 East Site and to much higher concentrations at the 400 East Site. Higher sediment metal levels at the 400 East Site are likely due to the greater binding affinity of metals to the smaller sediment particle sizes found there (Horowitz, 1985).
- 400 East Site concentrations of chromium, copper, and nickel exceeded the Threshold Effects Level (TEL) for sediment metals (MacDonald, 1994). Cadmium and lead were detected at levels below but approaching the TEL. Silver and zinc were detected at a level below the TEL.
- 200 East Site concentrations of chromium, copper, lead, nickel, silver, and zinc were detected at levels below the TEL. Cadmium as detected at a level between the MDL and PQL.
- 200 West Site concentrations of chromium, copper, and nickel were detected at levels below the TEL. Lead and zinc were detected at levels between the MDL and PQL.
- 400 West Site chromium was detected at levels below the TEL. Copper, lead, and nickel were detected at levels between the MDL and PQL.

Bioassessment:

Macroinvertebrates (See Table 5 and Appendices J-1 and J-2)

- No study establishing the path of the effluent plume was conducted prior to sampling. The effluent plume was assumed to move both North and South of Outfall D-001. Historical sampling sites were used for this assessment.
- The 400 West Site sample contained 247 individuals in 32 taxa with a Shannon-Weaver diversity score of 3.1. This site's diversity score may be negatively biased due to calculation based on fewer than 300 individuals (Lande 1996). The benthic invertebrate community was depauperate at the 200 West (7 individuals), 200 East (8 individuals), and 400 East (9 individuals) Sites, likely due to the anaerobic mud, metals, and PAH's found there. The Shannon-Weaver diversity score could not be calculated at these sites.
- There is no gradient pattern to benthic invertebrate community composition in relation to the discharge pipe, sediment particle size, or sediment metal concentrations.

Conclusion

Atrazine was detected at levels between the MDL and PQL in the receiving water samples at all 4 sites; however, it was not detected in the effluent grab sample. 1,4, dioxane was detected in the effluent grab sample and at one receiving water site (200 West). All metals detected in the effluent and receiving water samples were present at levels that complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits. PAH constituents and diethyl phthalate were detected in the sediment samples collected at the receiving water sites. Chromium, copper, and nickel in the sediment sample from site 400 East exceeded TEL values. There is no detectable nutrient enrichment from the effluent at the receiving water sites. The macroinvertebrate community was depauperate at all the receiving water sites which is likely due to the lack of habitat and effects of the metals and PAH's found there.

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Table 1a. Effluent limits, Class III Criteria for predominantly marine waters and chemical data

Pensacola Beach WWTF	Class III Marine Criteria	Effluent Limits	Effluent Composite	Effluent Grab	400 West	200 West	200 East	400 East
Organic Constituents (µg/L)								
1,4-Dioxane	-	-	-	0.97	0.020 U	1.1	0.020 U	0.020 U
Atrazine	-	-	-	0.011 U	0.013 I	0.013 I	0.012 I	0.013 I
Sucralose	-	-	-	32	0.074	0.031 I	0.055	0.035 I
Nutrients (mg/L)								
Ortho-phosphate	-	-	-	0.39	0.004 U	0.004 U	0.004 U	0.004 U
Total Phosphorus	-	≤ 2.0 sp	0.35	-	0.015	0.014	0.013	0.012
Total Ammonia	-	-	-	0.043	0.012	0.014	0.003 I	0.003 I
Un-ionized Ammonia	-	-	-	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c
Nitrate and Nitrite	-	-	0.031	-	0.008 I	0.009 I	0.006 I	0.005 I
Total Kjeldahl Nitrogen	-	-	0.61	-	0.36 I	0.40 I	0.42	0.50
Organic Nitrogen	-	-	0.57 c	-	0.35 c	0.39 c	0.42 c	0.50 c
Total Nitrogen	-	≤ 6.0 sp	0.64 c	-	0.37 c	0.41 c	0.43 c	0.51 c
Total Organic Carbon	-	-	-	4.6	4.6	4.5	6.0	5.9
General Physical and Chemical Parameters								
Marine Habitat Assessment	-	-	-	-	33	29	29	29
Dissolved Oxygen (mg/L)	≥ 4.0	≥ 4.0 s	-	7.00	6.30	6.31	6.88	6.85
pH (SU)	6.5 - 8.5	6.6-8.5 s	-	6.77	7.60	7.89	8.05	8.06
Specific Conductance (µmhos/cm)	-	-	694 A	701	31,422	31,505	25,541	25,498
Temperature (°C)	-	-	-	29.6	28.2	28.4	29.8	29.9
Salinity	-	-	-	-	18 c	18 c	14 c	14 c
Sample Depth (m)	-	-	-	-	0.15	0.15	0.15	0.15
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01 s	≤ 0.03 UQ£	-	-	-	-	-
Chlorophyll *a* (µg/L) - Corrected	-	-	-	0.62 U	7.4	7.5	5.1	5.4
Phaeophytin (µg/L)	-	-	-	0.45 U	0.50 U	0.45 U	0.45 U	0.45U
Total Suspended Solids (mg/L)	-	≤ 10.0 sp	2 U	-	3 U	4 I	3 U	4 I
Turbidity (NTU)	< 29 t	-	-	0.60	1.6 A	1.6	1.3	1.3
Color (true, PCU)	-	-	-	2.7 I	14	14	17	17 A
Alkalinity (mg CaCO3/L)	-	-	-	68	79 A	80	68 A	68 A
CBOD, 5 day (mg/L), N - inhibited	-	≤ 10.0 sp	2.7 A	-	1.9 I	1.3 I	0.96 I	1.2 I
Chloride (mg/L)	-	-	-	110	11,000	11,000	8,500	8,500
Fluoride (mg/L)	≤ 5.0	-	-	0.32	0.78	0.78	0.61	0.61
Sulfate (mg/L)	-	-	-	78	1,500	1,500	1,200	1,200
Flow (MGD)	-	2.4 m	-	0.97	-	-	-	-
Hardness (mg $CaCO_3$)	-	-	-	111 c	-	-	-	-

Table 1a (continued). Effluent limits, Class III Criteria for predominantly marine waters, microbiological and toxicological data

Pensacola Beach WWTF	Class III Marine Criteria	Effluent Limits	Effluent Composite	Effluent Grab	400 West	200 West	200 East	400 East
Toxicity (7 day Chronic Definitive, IC25, % effluent)								
Bioassay - Water flea *(Ceriodaphnia dubia)* - survival and reproduction	-	≥ 100	> 100	-	-	-	-	-
Bioassay - Fish *(Pimephales promelas)* - survival and growth	-	≥ 100	> 100	-	-	-	-	-
Microbiology (Number of colony forming units/100ml)								
Fecal Coliforms ¥	≤ 400s #	86 s	-	1 U	1 U	1 U	2 U	2 B
Enterococci ¥	-	104 s	-	2 U	4 B	2 U	2 U	2 U

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

a - Annual average
c - Value is calculated
m - monthly average daily flow
p - 24 hour flow proportioned composite
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
IC25 - A 25% inhibition concentration less than 100% effluent will constitute a violation of this permit
J - Estimated value
L - Actual value is known to be greater than value given
U - Material analyzed for but not detected; value reported is the method detection limit
Q - Sample held beyond normal holding time
¥ - Fecal coliform and enterococci analyses performed by the University of West Florida, Pensacola, FL
- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
£ - measurement taken in the FDEP laboratory

Table 1b. Effluent limits, Class III Criteria for predominantly marine waters and depth profile data

Pensacola Beach WWTF	Class III Marine Criteria	Effluent Limits	Effluent Composite	Effluent Grab	400 West	200 West	200 East	400 East
Sample Depth (m), surface	-	-	-	-	0.18	0.33	0.15	0.16
Sample Depth (m), mid-depth	-	-	-	-	2.33	2.55	2.29	2.47
Sample Depth (m), bottom	-	-	-	-	4.67	5.22	4.85	4.82
Secchi (m)	-	-	-	-	1.5	1.9	1.8	1.8
Temperature (°C), surface	-	-	-	29.6	28.24	28.42	29.83	29.88
Temperature (°C), mid-depth	-	-	-	-	28.40	28.53	29.83	29.64
Temperature (°C), bottom	-	-	-	-	28.67	28.50	28.13	28.17
pH (SU), surface	6.5 - 8.5	6.6-8.5 s	-	6.77	7.60	7.89	8.05	8.06
pH (SU), mid-depth	6.5 - 8.5	-	-	-	7.72	7.73	8.05	8.03
pH (SU), bottom	6.5 - 8.5	-	-	-	7.69	7.30	7.69	7.58
Dissolved Oxygen (mg/L), surface	≥ 4.0	≥ 4.0 s	-	7.00	6.3	6.3	6.9	6.9
Dissolved Oxygen (mg/L), mid-depth	≥ 4.0	-	-	-	5.2	4.7	6.6	6.5
Dissolved Oxygen (mg/L), bottom	≥ 4.0	-	-	-	3.0	0.3	2.6	2.0
Dissolved Oxygen (% sat), surface	-	-	-	-	89.9	90.3	98.9	98.5
Dissolved Oxygen (% sat), mid-depth	-	-	-	-	75.2	69.1	94.9	93.1
Dissolved Oxygen (% sat), bottom	-	-	-	-	45.3	3.5	37.7	29.7
Specific Conductance (µmhos/cm), surface	-	-	694 A	701	31,422	31,505	25,541	25,498
Specific Conductance (µmhos/cm), mid	-	-	-	-	32,700	32,864	25,658	25,830
Specific Conductance (µmhos/cm), bottom	-	-	-	-	35,986	38,281	42,309	45,293
Salinity (ppt), surface	-	-	-	-	19.5	19.5	15.5	15.5
Salinity (ppt), mid-depth	-	-	-	-	20.3	20.5	15.6	15.7
Salinity (ppt), bottom	-	-	-	-	22.6	24.2	27.1	29.2

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

Value is less than the Class III Water Quality Criteria

s - Single sample

A - Value reported is the mean of two or more determinations

Table 2. Effluent limits, Class III Predominantly Marine Criteria and metals data

Pensacola Beach WWTF	Class III Marine Criteria	Effluent Limits	Effluent Composite	Effluent Grab	400 West	200 West	200 East	400 East
Metals (µg/L unless otherwise noted)								
Aluminum	≤ 1500	-	-	60 I	180 U	180 U	60 U	60 U
Arsenic	≤ 50	-	0.87 I	-	1.4 I	1.1 I	1.2 I	1.4 I
Cadmium	≤ 8.8	-	0.074 I	-	0.15 U	0.15 U	0.15 U	0.15 U
Calcium (mg/L)	-	-	-	32.6	227	228	177	173
Chromium, Total	≤ 50 ψ	-	0.30 U	-	0.90 U	0.90 U	0.90 U	0.90 U
Copper	≤ 3.7	≤ 3.7 sp	1.59	-	1.5 U	1.5 U	1.5 U	1.5 U
Iron	≤ 300	-	-	36 I	90 U	90 U	30 U	30 U
Lead	≤ 8.5	-	0.20 U	-	0.60 U	0.60 U	0.60 U	0.60 U
Magnesium (mg/L)	-	-	-	7.26	721	748	572	598
Nickel	≤ 8.3	-	1.59	-	0.75 U	0.75 U	0.75 U	0.75 U
Selenium	≤ 71	-	0.20 U	-	0.60 U	0.60 U	0.60 U	0.66 I
Silver	≤ 2.3	≤ 2.3 sp	0.025 U	-	0.075 U	0.075 U	0.075 U	0.075 U
Sodium (mg/L)	-	-	-	90.7	5,750	5,980	4,760	4,870
Zinc	≤ 86	-	-	51	15 U	15 U	5.0 U	5.0 U

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

p - 24 hour flow proportioned composite
s – Single sample
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
ψ - Class III Marine Water Quality Criterion (62-302.530(19)(b), F.A.C.) for chromium-IV

Table 3. 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 of the freshwater species *Pseudokirchneriella subcapitata,* salt adjusted AGP for the saltwater species *Dunaliella tertiolecta,* and ratios of nitrogen to phosphorus

Pensacola Beach WWTF								
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**
Effluent ^	Fresh	1.09	2.8 ± 0.6	167.7 ± 33.5	24.4 ± 4.9	150.5 ± 30.1	0.2 *	1.8 **
Effluent ^^	Marine	3 U	-	-	-	-	0.2	1.8
400 West	Marine	3 U	-	-	-	-	5	24.5
200 West	Marine	3 AU	-	-	-	-	5.8	29.2
200 East	Marine	3 UQ	-	-	-	-	2.3	32.8
400 East	Marine	3 AUQ	-	-	-	-	2	42.1

A dash (-) indicates that the predicted AGP/ratio is not applicable

Fresh - *Pseudokirchneriella subcapitata* (freshwater species)
Marine - *Dunaliella tertiolecta* (saltwater species)
^ - Effluent AGP from grab sample; predicted values based on effluent grab and tox composite samples
^^ - Effluent AGP grab sample salinity was adjusted to 7.4 ppt
* - Effluent ratio based on effluent grab NH3 and OP and composite sample NO2+NO3
** - Effluent ratio based on composite sample nutrient analysis
A - Value reported is the mean of two or more determinations
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit

Table 4. Sediment data for Pensacola Beach WWTF

Pensacola Beach WWTF	TEL†	PEL†	400 West	200 West	200 East	400 East
Particle Size Distribution (percent volume < 2mm)						
< 0.063 mm	-	-	2.73	14.7	63.4	85 A
0.063 - 0.125 mm	-	-	0.51	1.97	9.65	11.8 A
0.125 - 0.25 mm	-	-	9.48	13.8	8.92	3.12 AJ
0.25 - 0.5 mm	-	-	56.2	49.4	14.8	0.100 A
0.5 - 2.0 mm	-	-	31.1	20.2	3.21	0.100 A
> 2.0 mm (percent dry weight)	-	-	1.0 K	1.0 K	1.0 K	1.0 K
Organic Content						
Organic Content (percent dry weight)	-	-	1.0 K	1.0 K	6.2	18 A
Organic Constituents (ug/kg)						
Benzo(a)anthracene	74.8	693	8.6 U	9.3 U	23 I	54 I
Benzo(a)pyrene	88.8	763	8.6 U	9.3 U	23 I	64 I
Benzo(b)fluoranthene	-	-	8.6 U	9.3 U	39 I	100 I
Benzo(g,h,i)perylene	-	-	8.6 U	9.3 U	18 U	54 I
Benzo(k)fluoranthene	-	-	8.6 U	9.3 U	18 U	48 I
Chrysene	108	846	8.6 U	9.3 U	31 I	70 I
Fluoranthene	113	1494	8.6 U	9.3 U	19 I	80 I
Indeno(1,2,3-cd)pyrene	-	-	8.6 U	9.3 U	18 U	46 I
Pyrene	153	1398	8.6 U	9.3 U	18 U	66 I
Diethyl phthalate	-	-	100 I	110 I	190 I	410 I
Metals (mg/kg)						
Cadmium	0.676	4.21	0.045 U	0.044 U	0.16 I	0.53
Chromium	52.3	160	1.07	3.05	20.8	65.2 *
Copper	18.7	108	0.37 I	1.20	8.73	27.2 *
Lead	30.2	112	0.43 I	1.2 I	9.2	28.9
Nickel	15.9	42.8	0.31 I	0.90	5.81	18.0 *
Silver	0.733	1.77	0.011 U	0.011 U	0.065	0.214
Zinc	124	271	1.8 U	4.3 I	32.6	101

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

† - Sediment Quality Assessment Guidelines (MacDonald 1994): TEL = Threshold Effects Level; PEL = Probable Effects Level

* - Exceeds the threshold effects level (TEL) from Sediment Quality Assessment Guidelines (MacDonald 1994)

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

K - Actual value is known to be less than value given

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

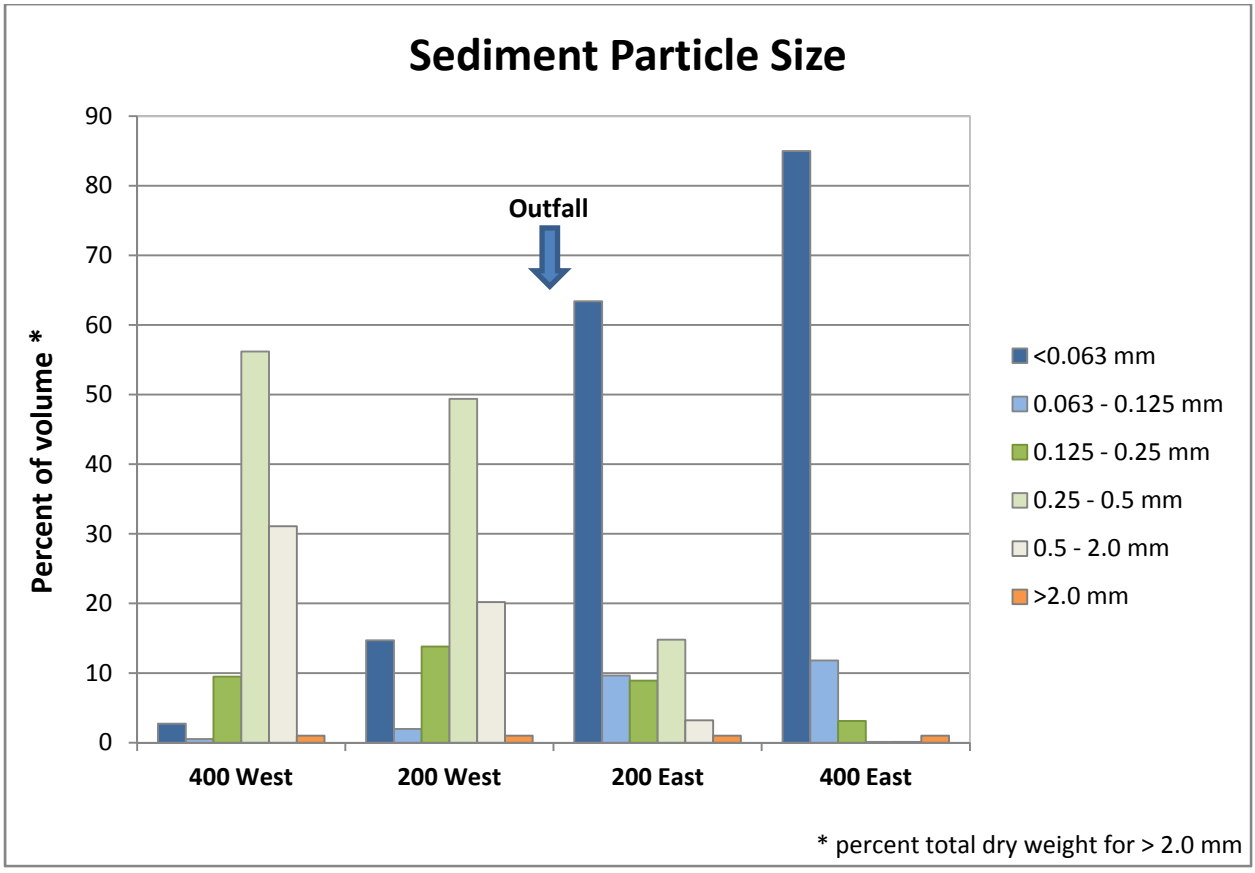


Figure 1. Sediment particle size (mm)

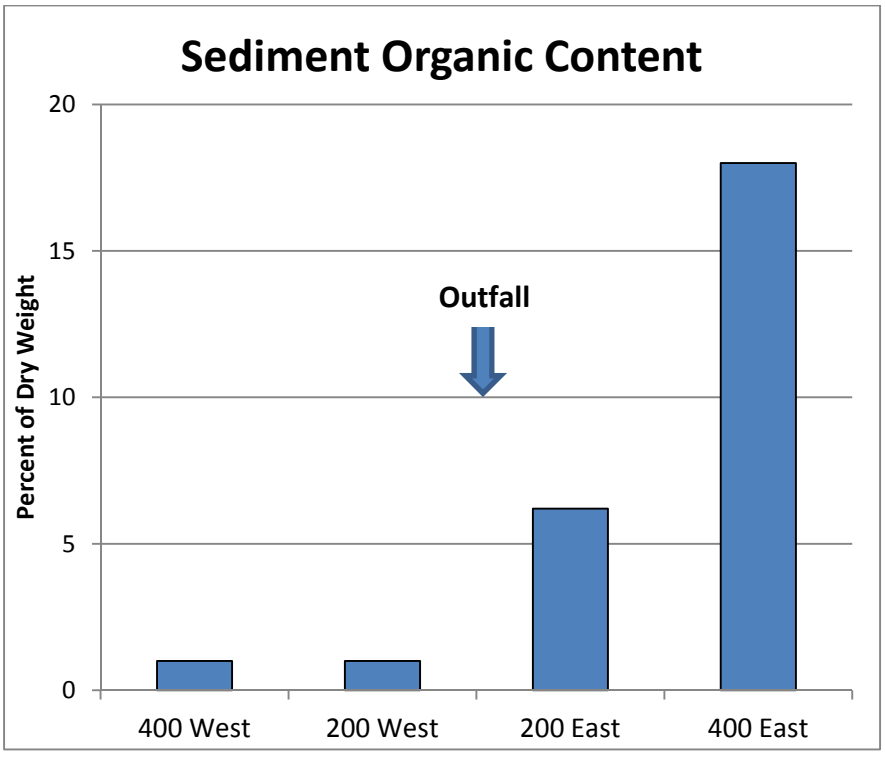


Figure 2. Sediment percent organics

Table 5. Macroinvertebrate petite ponar samples - quantitative

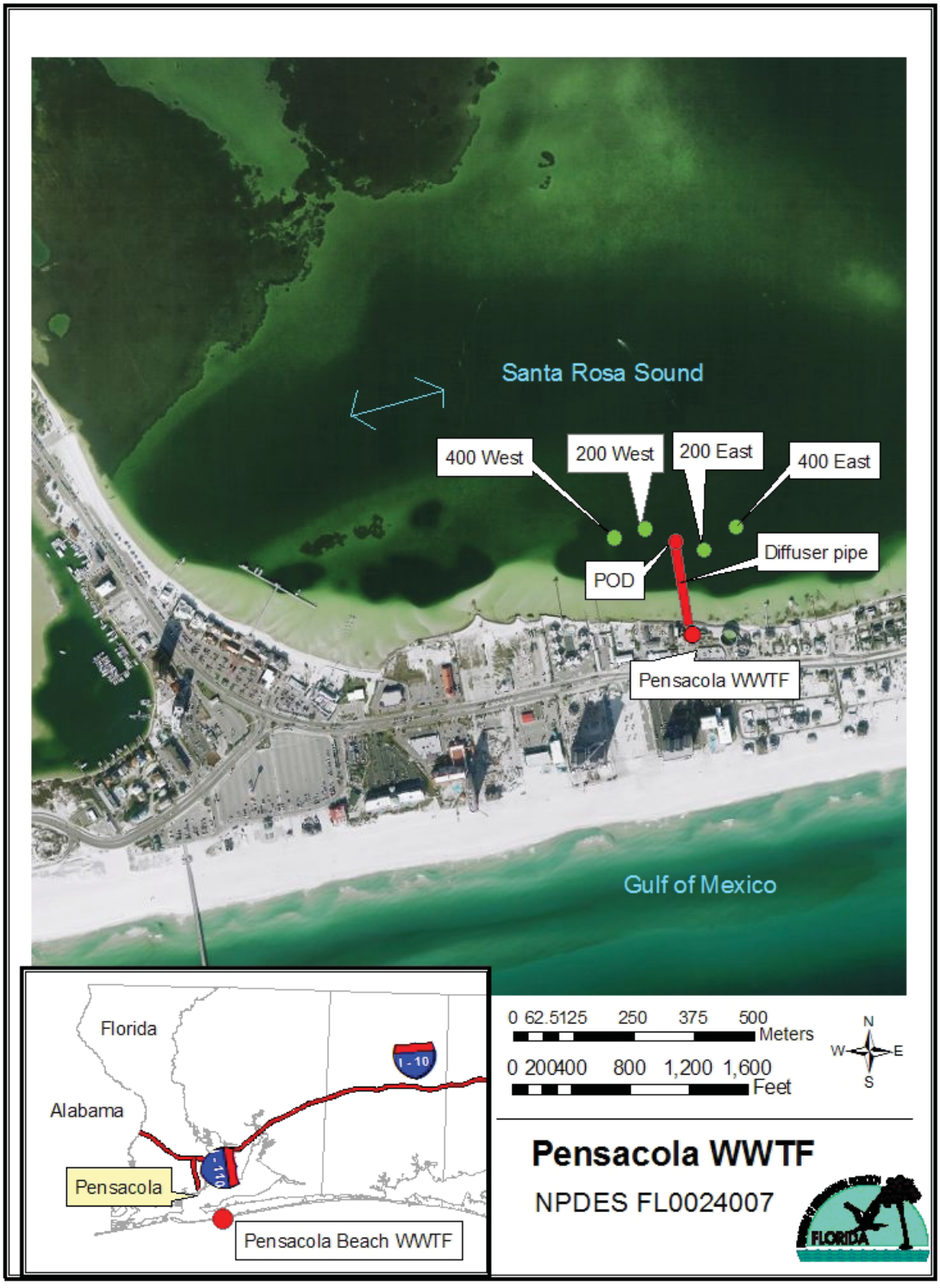
Pensacola Beach WWTF	400 West	200 West	200 East	400 East
Shannon-Weaver Diversity	3.1*	**	**	**
Number of Taxa	32	3	2	7
Percent Dominant Taxon	33.51	71.43	87.5	33.33
Dominant Taxon Name	*Paraprionospio alata* (Polychaeta)	*Paraprionospio alata* (Polychaeta)	*Paraprionospio alata* (Polychaeta)	Spionidae (Polychaeta)
Number of samples/site	6	6	6	6
Total Number of Individuals (counted)	247	7	8	9
Community Composition: Percent of total				
Amphipoda	33.6	14.3	0.0	22.2
Bivalvia	1.2	0.0	0.0	0.0
Cumacea	0.4	0.0	0.0	0.0
Decapoda	0.8	0.0	0.0	11.1
Diptera	0.4	0.0	0.0	0.0
Gastropoda	1.2	0.0	0.0	22.2
Nemertea	4.0	0.0	0.0	0.0
Oligochaeta	1.2	0.0	12.5	0.0
Polychaeta	48.6	85.7	87.5	33.3
Other	8.5	0.0	0.0	11.1
Functional Feeding Groups: Percent of total				
Browser-Grazers	1.0	0.0	0.0	0.0
Burrowing Deposit Feeders	8.6	0.0	12.5	0.0
Predators	14.6	0.0	0.0	11.1
Scavengers	1.0	0.0	0.0	0.0
Scrapers	1.2	0.0	0.0	22.2
Shredders	0.2	0.0	0.0	5.6
Surface Deposit Feeders	17.8	35.7	43.8	22.2
Suspension Feeders	23.3	35.7	43.8	16.7
Unknown	32.3	28.6	0.0	22.2

* - Shannon Weaver Diversity scores calculated on samples with < 300 individuals have the potential for negative bias (lower diversity scores compared to sites with more individuals) (Lande 1996).

** - Too few individuals collected to calculate Shannon-Weaver diversity.

Appendix A

Map of Facility



Appendix B

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By:	**Contact Number:**
Facility Name (as it appears on permit): Pensacola Beach WWTF	**Former Names:**
NPDES Permit Number: **FL0024007**	**Permit Expiration Date:** **12/17/14**
Physical Address: 53 Via De Luna Drive, Pensacola Beach, FL 32561	
District: NWD	**County:** Escambia
Function of Facility: Municipal wastewater treatment facility	
Facility Type: Domestic	**Permitted Capacity (MGD):** 2.4 MGD monthly annual average daily flow
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): .793 mgd annual average to surface water (April 2012 to May 2013)	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): .059 mgd annual average to Part III reuse(April 2012 to May 2013)	
Description of type of Discharge: ☒ **Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

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)**

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

FLW-01 Ultrasonic Flow Meter at Dechlorination Chamber Final Effluent Weir
FLW-03 Flow Meter in Line from Reuse Pump Station to Onsite Plant Reuse
EFF-01 Outfall Box
EFF-02 Chlorine Contact Chamber final basin before Reuse Pump Station
EFA-02 Chlorine Analyzer in Chlorine Contact Chamber final basin before Reuse Pump Station
EFD-01 Chlorine Analyzer at Outfall Box

Description of Permitted Outfall(s):

An existing 2.4 MGD annual average daily flow (AADF) discharge to Santa Rosa Sound, Class III Marine waters, (WBID 915). The outfall pipe is approximately 400-feet in length, with a 70-foot long closed-end diffuser that has 6-inch diameter holes at 10-foot centers and discharges at a depth of approximately 18 feet. The discharge is located in that portion of Santa Rosa Sound classified as Outstanding Florida Waters, Gulf Islands National Seashore, and 0.6 miles southwest of Class II Marine Waters. The point of discharge is located approximately at latitude 30°20' 12" N, longitude 87°07' 56" W.

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

A 2.4 MGD monthly average daily flow (MADF) permitted capacity domestic wastewater treatment facility serving the needs of Pensacola Beach. The facility has two treatment trains each with a design capacity of 1.2 MGD and discharging effluent that meets the 5:5:3:1 CBOD5, TSS, Nitrogen and Phosphorus requirements defined under section 403.086(4)(a), F.S., and both intermediate and high level disinfection requirements as defined by Rules 62-600.440(5) and (6), F.A.C. Each plant is a 1.2 MGD design capacity, extended aeration treatment process using a Modified Ludzack-Ettinger process for the removal of BOD, TSS, and nitrogen along with alum addition for phosphorus removal. Both plants share a common influent mechanical bar screen; the plants have individual influent pump stations and vortex grit removal chambers. Plant No. 1 consists of a 100,000-gallon anoxic basin, 370,000-gallon aeration basin, 100,000-gallon sludge holding tank and 50-ft diameter clarifier. Plant No. 2 consists of a 125,000-gallon anoxic basin, 440,000-gallon aeration basin, 157,000-gallon sludge holding tank and 60-ft diameter clarifier. Flow from both plants combines in a six-cell denitrification filter system followed by disinfection in a new dual chamber 58,500-gallon chlorine contact chamber using sodium hypochlorite. Reclaimed water meeting intermediate disinfection is discharged to Santa Rosa Sound following dechlorination and reclaimed water meeting high level disinfection is pumped to a slow-rate, public access landscape irrigation system for reuse. The facilities also include a 2.4 MGD reject storage tank that is available for storage of off-spec reclaimed wastewater. Residuals are concentrated in the sludge holding tanks and loaded into tanker trucks for transport to an ECUA WWTP in Pensacola for further treatment.

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-001 to Santa Rosa Sound. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with Permit Condition I.C.7.:

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow, to surface waters	MGD	Max	2.4	Annual Average	Continuous	Recording Flow Meter with Totalizer	FLW-01	See I.A.4
Flow, to on-site reuse	MGD	Max	Report	Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-03	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFF-01	
Solids, Total Suspended	mg/L	Max Max Max Max	5.0 6.25 7.5 10.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFF-01	
Nitrogen, Total	mg/L	Max Max Max Max	3.0 3.75 4.5 6.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFF-01	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	1.0 1.25 1.5 2.0	Annual Average Monthly Average Weekly Average Single Sample	Weekly	24-hr FPC	EFF-01	
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	Weekly	Grab	EFF-02	See I.A.5
Enterococci	#/100mL	Max Max	35 104	Monthly Geo. Mean Single Sample	5/Month	Grab	EFF-02	See I.A.7
pH	s.u.	Min Max	6.5 8.5	Single Sample Single Sample	Continuous	Meter	EFF-01	See I.A.3
Chlorine, Total Residual (for Disinfection)	mg/L	Min	1.0	Single Sample	Continuous	Meter	EFA-02	See I.A.3 and I.A.6
Chlorine, Total Residual (for Dechlorination)	mg/L	Max	0.01	Single Sample	Daily; 24 hours	Meter	EFD-01	
Oxygen, Dissolved (DO)	mg/L	Min	4.0	Single Sample	Daily; 24 hours	Grab	EFF-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-01	
Silver, Total Recoverable	ug/L	Max	2.3	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFF-01	
Copper, Total Recoverable	ug/L	Max	3.7	Single Sample	Semi-Annually; twice per year	24-hr FPC	EFF-01	

I.A.

5. The effluent limitation for the monthly median for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly median shall be calculated and reported on the Discharge Monitoring Report. *[62-600.440(6)(c)]*

7. The Enterococci value shall be based on a minimum of 5 samples of effluent each collected on nonconsecutive days during a period of 30 consecutive days (monthly). Effluent samples for Enterococci shall be monitored using EPA Method 1600 or Enterolert™. *[62-302.500(1)(a)6. and 40 CFR Part 131(Federal Register/Vol. 69, No. 220, pages 67218-67243)]*

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
The discharge is located in that portion of Santa Rosa Sound classified as Outstanding Florida Waters, Gulf Islands National Seashore, and 0.6 miles southwest of Class II Marine Waters.	**Class III Marine**

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

d. Test Requirements
(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: 100%, 50%, 25%, 12.5%, and 6.25% final effluent.

(2) The permittee shall conduct a daphnid, *Ceriodaphnia dubia*, Survival and Reproduction Test and a fathead minnow, *Pimephales promelas*, Larval Survival and Growth Test, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

(4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7.2.3.
e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (*Ceriodaphnia dubia*) and Section 11.11 (*Pimephales promelas*). The repeat test shall begin within 21 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

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

No current CO's or AO's directly related to the WWTF. OGC #11-0982 was issued on 6/6/12 for Sanitary Sewer Overflows and encompasses the collection systems associated with this facility and the other 2 ECUA WWTF's.

Facility Mixing Zone Details (if applicable):

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

Date	Parameter and Units	Limit	Result
6/12 **8/12**	**Total Nitrogen** **Total Phosphorus**	**4.5 mg/L max** **1.5 mg/L weekly avg** **1.25 mg/L monthly avg** **2.0 mg/L max**	**4.6 mg/L** **2.81 mg/L** **1.35 mg/L** **2.81 mg/L**

Describe previous FYI and WQBEL study:

Describe previous or current Enforcement Actions (including WLs):

Effluent limitations are carried forward from the previous permit and are based on a Level II WQBEL which was finalized by FDEP in May 2003.

Describe any violations or problems noted in previous inspection:

Discuss whether DMR trends within previous five years are improving or declining:

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:	**Sampler(s):**
7/22/13	**Nathan Mulkey, Rick Abad**

Temperature (Deg C): **29.63**	**pH (SU):** **6.77**
Dissolved Oxygen (mg/L): **7.00**	**Conductivity (umhos/cm):** **701**
Total Residual Chlorine (mg/L):	**Total Residual Chlorine - after Disinfection (mg/L):**
Method of Chlorination:	**Method of De-chlorination:**

Flow During Sample Collection for each outfall(MGD):

.970

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):

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:

Effluent samples taken from station EFF-01
30’ 20’ 08.0
87’ 07’ 54.4

Appendix C

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

The effluent and water from sampling stations were analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides. The results from these analyses were compared with Water Quality Criteria (62-302, F.A.C.) and facility permit limits. Exceedances of Water Quality Criteria may constitute violations of specific provisions of Chapter 62-302 (F.A.C.) and/ or 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 a violation of 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 a violation of 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 a violation of 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 a violation of 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..f

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 ± 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 tertiolecta*.

(7) Sediment Sampling

Sediments were collected using a petite ponar dredge at all sampling stations. Sediment samples were analyzed for metals, organic constituents, pesticides, organic content and sediment grain size. The results from these analyses were compared with sediment quality assessment guidelines applicable to Florida coastal waters (Table 4. in MacDonald 1994). The range of sediment contaminant concentrations that fall below the threshold effects level (TEL) are not likely to be associated with adverse biological effects on aquatic organisms. The range of sediment contaminant concentrations that fall above the probable effects level (PEL) are usually or always associated with adverse biological effects. Within the range of concentrations delineated by the TEL (lower limit) and the PEL (upper limit), adverse biological effects are possible but it is difficult to predict the occurrence, nature, and/or severity of these effects (MacDonald 1994).

(8) Benthic Macroinvertebrate Assemblages

Benthic macroinvertebrates were collected using a petite ponar dredge at all sampling stations. Five replicate ponar samples were collected at each station and sieved through a 500 μm mesh. Benthic macroinvertebrates were sorted and identified to the lowest practical taxonomic level, usually species.

Taxa richness: Taxa richness is the number of distinct macroinvertebrate taxa present in a sample. Decreases in taxa richness related to a facility's effluent may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., 62-302.530(47)(b), F.A.C. and/or 62-302.530(61), F.A.C..

Percent Contribution of Dominant Taxon: Percent contribution of the dominant taxon is calculated by dividing the number of individuals in the most abundant taxa by the total number of individuals counted. Percent contribution of the dominant taxon tends to increase with increasing perturbation (Plafkin *et al*., 1989). Increases in the percent contribution of the dominant taxon related to a facility's effluent 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..

Community Composition: Shifts in proportions of major groups of organisms downstream of a point source, compared to upstream, control conditions, may indicate negative effects of a discharge (Karr and Chu 1998). Shifts in community composition related to a facility's effluent may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., 62-302.530(47)(b), F.A.C. and/or 62-302.530(61), F.A.C..

Functional Feeding Groups: Environmental degradation may differentially affect groups of invertebrates based on how the group feeds (e.g. predators, deposit feeders, etc.). Changes in the proportions of functional feeding groups related to a facility's effluent may constitute exceedances of 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C., 62-302.530(47)(b), F.A.C. and/or 62-302.530(61), F.A.C..

Shannon-Weaver Diversity Index: This index is specified in the Florida Administrative Code 62-302 as a measure of biological integrity. Low diversity scores are undesirable. Where diversity is low, only a few taxa are abundant as compared to an area where many taxa are present in equitable abundance among taxa (Magurran 1988). A difference of 25% in Shannon-Weaver diversity between samples at test and control sites constitutes exceedances of 62-302.530(10), F.A.C..

(9) 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 D
Chain of Custody

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Milby
Collected By: Nathan Milby / Rick Abad
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Collection (comp begin or grab) Eastern	Composite end Eastern	Bottle Group(s)**
	Pensacola Beach WWTF	☑ Comp ☐ Grab Date 7/21/13 Time 0700 Central	Date 7/22/13 Time 0700 Central	B
	Field ID: TOX 1	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Lab ID *	Location	Collection (comp begin or grab) Eastern	Composite end Eastern	Bottle Group(s)**
	Pensacola Beach WWTF	☑ Comp ☐ Grab Date 7/21/13 Time 0700 Central	Date 7/22/13 Time 0700 Central	B
	Field ID: Effluent (comp)	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Lab ID *	Location	Collection (comp begin or grab) Eastern	Composite end Eastern	Bottle Group(s)**
	Pensacola Beach WWTF	☐ Comp ☐ Grab Date 7/22/13 Time 0845 Central	Date Time Central	F/G
	Field ID: Field Blank	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments: Suite: G: BOD and TSS samples received	

Lab ID *	Location	Collection (comp begin or grab) Eastern	Composite end Eastern	Bottle Group(s)**
	Pensacola Beach WWTF	☐ Comp ☑ Grab Date 7/22/13 Time 0830 Central	Date Time Central	A
	Field ID: Effluent	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L): 7.00	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C): 29.63	pH: 6.77	Sample Depth ☐ m ☐ ft: 701; ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm); NPDES Number
	Latitude: 30 20 08.0 ☐ dd ☑ dms	Longitude: 87 07 54.4 ☐ dd ☑ dms	Comments: station EFF-01	

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/22/13	FedEx	ABD	07/23/13 09:15				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

7-23-13 2 bioassays @ 10:05 AP

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Mulky
Collected By: Nathan Mulky / Rich Alsk
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
	Santa Rosa Sound	☐ Comp ☑ Grab	Date 7/22/13 Time 1045	Date Time	C
	Field ID: 400W	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L): 6.30	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc): Salt	Temp (C): 28.24	pH: 7.60	Sample Depth: .5 ☑ m ☐ ft	Salinity (PPTh): ☐ Sp Conductance (umho/cm): 34.22	NPDES Number:
	Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Comments: 400 ft. west of point of discharge * Eastern sites without oil		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
	Santa Rosa Sound	☐ Comp ☑ Grab	Date 7/22/13 Time 1115	Date Time	C
	Field ID: 200W	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L): 6.31	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc):	Temp (C): 28.42	pH: 7.89	Sample Depth: .5 ☑ m ☐ ft	Salinity (PPTh): ☐ Sp Conductance (umho/cm): 31.505	NPDES Number:
	Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Comments: 200 ft west of point of discharge * Eastern sites weathered out		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time	Date Time	
	Field ID	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc):	Temp (C):	pH:	Sample Depth: ☐ m ☐ ft	Salinity (PPTh): ☐ Sp Conductance (umho/cm):	NPDES Number:
	Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Comments:		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time	Date Time	
	Field ID	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc):	Temp (C):	pH:	Sample Depth: ☐ m ☐ ft	Salinity (PPTh): ☐ Sp Conductance (umho/cm):	NPDES Number:
	Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Comments:		

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[redacted]	7/22/13	FedEx	APP	07-23-13 09:15				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

SAMPLE TRANSMITTAL FORM
Document Reference # 05.1.0

Project: _____ FDEP _____ Laboratory: Wetlands Research Laboratory Sampler's intials : NM

Method of transport: _____ on ice by automobile _____ Page _1_ of _1_

Samples delivered by: _____ of _____ FDEP Date/Time: 7/22/13 1430

Sample received by: _____ of ____WRL_____ Date/Time: 7/22/13 1430

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

CST

13-Lab ID	Sample ID	Matrix[1]	Type[2]	Container Type	Analyses Requested	Preservative	Sample (°C)[3]	Sampling Date/Time
37490	Effluent Pensacola Beach ECUA	SW	G	Sterile plastic	Enterococcus/Fecal Coliform MF	ice/Na2S2O3	2.1	7/22/13 0830
37491	400 West of POD	SW	G	Sterile plastic	Enterococcus/Fecal Coliform MF	ice/Na2S2O3	2.6	1045
37492	200 West of POD	SW	G	Sterile plastic	Enterococcus/Fecal Coliform MF	ice/Na2S2O3	2.1	1115
37493	200 East of POD	SW	G	Sterile plastic	Enterococcus/Fecal Coliform MF	ice/Na2S2O3	2.8	1200
37494	400 East of POD	SW	G	Sterile plastic	Enterococcus/Fecal Coliform MF	ice/Na2S2O3	2.5	1210

Comments **RQ-2013-07-22-30** sample container lot# L11272 _____

Contact organization _____ FDEP _____ Contact name __Nathan Mulkey _____ Phone: (850) 595-0626

Address _160 Governmental Center, suite 308, Pensacola, FL 32502 _____ Sampler's name: _____

[1]Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X = _____

[2]Type codes: G = grab, C = composite, X = _____ [3] Recorded using IRT-2

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Milkey
Collected By: Nathan Milkey
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
	Pensacola Beach WWTF	☑ Comp ☐ Grab	Date 7/23/13 Time 0700 (Central)	Date 7/24/13 Time 0700 (Central)	B
	Field ID: TOX2	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time	Date Time	
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time	Date Time	
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time	Date Time	
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

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[signature]	7/24/13	Fed Ex					[signature]	7/25/13 9:20

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

7-25-13 2 bioassays
@ 10:05 AP

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Malky
Collected By: Nathan Malky
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
	Pensacola Beach WWTF	☑ Comp ☐ Grab	Date 7/25/13 Time 0700 (Central)	Date 7/26/13 Time 0700 (Central)	B
	Field ID: TOX 3	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date Time	Composite end Eastern Central: Date Time	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments		

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[signature]	7/26/13	Fed Ex	B. Alexander	7.27.13/10:40				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Malloy

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Collected By: Nathan Malloy / Mike King
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Lab ID *	Location	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD	☐ Comp ☑ Grab Date 8/1/13 Time 0900 Central	Date Time	C
	Field ID: 200E	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L): 6.88	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C): 29.83	pH: 8.05	Sample Depth ☑ m ☐ ft: .5
				☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm): 25541
				NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments: surface water	

Lab ID *	Location	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD	☐ Comp ☑ Grab Date 8/1/13 Time 0925 Central	Date Time	C
	Field ID: 400E	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L): 6.85	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C): 29.88	pH: 8.06	Sample Depth ☑ m ☐ ft: .5
				☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm): 25498
				NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments: surface water	

Lab ID *	Location	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD	☐ Comp ☑ Grab Date 8/1/13 Time 1000 Central	Date Time	D/E
	Field ID: 400W	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft
				☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
				NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments: Inverts / sediment metals + particle size	

Lab ID *	Location	Collection (comp begin or grab) Eastern Central	Composite end Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD	☐ Comp ☑ Grab Date 8/1/13 Time 1240 Central	Date Time	D/E
	Field ID: 200W	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft
				☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
				NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments: Inverts / sediment metals + particle size	

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[signature]	8/1/13	Fed Ex	ATP	8-2-13 0925				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Page 1 of 5

2 color samples
12:43 A.m
PG 8/2/13

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-07-22-30
FYI Pensacola Beach WWTF Sampling Inspection

Requester: Jennifer G. Weger
Field Report Prepared By: N. Melka
Collected By: Nathan Melka / Mike King
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD 200E	☐ Comp ☑ Grab	Date 8/1/13 Time 1315 (Central)		D/E
	Field ID: 200E	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc): Salt	Temp (C):	pH:	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number:	Comments: Sediments / inverts	

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time Eastern Central	Bottle Group(s)**
	Santa Rosa Sound near POD 400E	☐ Comp ☑ Grab	Date 8/1/13 Time 1340 (Central)		D/E
	Field ID: 400E	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc): Salt	Temp (C):	pH:	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number:	Comments: Sediments / inverts	

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time		
	Field ID	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc):	Temp (C):	pH:	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number:	Comments:	

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab	Date Time		
	Field ID	Tot Res Chlorine (mg/L):	Diss Oxygen (mg/L):	Storet Station Number:	
	Matrix (include type e.g. Salt, Fresh, etc):	Temp (C):	pH:	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	NPDES Number:	Comments:	

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	8/1/13	Fed Ex		8-2-13 09:25				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Appendix E

Physical/Chemical and Habitat Assessment Field Sheets

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.33732 87.13289		7/22/13	1115	Pensacola Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
	Escambia	200 ft west of POD	200 W

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☒

Width of riparian vegetation (m) on least buffered side: ____

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous
Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High	10:11	AM (circled) / PM	AM / PM
Low	9:00	AM / PM (circled)	AM / PM

Canopy Cover %: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☒ Other: ☐ ____

Sediment Oils: Absent: ☐ Slight: ☐ Moderate: ☒ Profuse: ☐

Sediment Deposition: Sludge: ☒ Sand smothering: none ☐ slight ☐ moderate ☐ severe ☐ Silt smothering: none ☐ slight ☐ moderate ☐ severe ☐ Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble	5	6	Poner	Mud/Muck/Silt	95	6	Poner
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ ____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	‰	% DO	Secchi (m):
Top	0.330	28.42	7.89	6.31	31505	19.53	90.3	1.9
Mid-depth	2.550	28.53	7.73	4.71	32864	20.48	69.1	
Bottom	5.063	28.50	7.30	0.26	38281	24.17	3.5	

5.223

System Type: Stream: ☐ (1st - 2nd order / 3rd - 4th order / 5th - 6th order / 7th order or greater) Estuary: ☒ Other: ☐ ____

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ ____

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐ ____

Weather Conditions/Notes:
Heavy T-Storms/wind
*cancelled half of sampling

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☒	☐	☐	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mulky / Rich Abad		7/22/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD 9000-30 MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 7/22/13	RECEIVING BODY OF WATER: Pensacola Bay

REMARKS:	LOCATION: 200 ft west of POD	FIELD ID/NAME: 200 W

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 3	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed 6	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 6	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 2	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 29

COMMENTS: Anaerobic sediment odor / Little invert or material

ANALYSIS DATE: 7/22/13	ANALYST: Nathan Melby	SIGNATURE: Nathan Melby

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/28/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.33725 87.13354		7/22/13	1045	Pensacola Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
	Escambia	400 ft west of POD	400 W

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☒

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous

Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High 10:11 (AM) PM : AM PM

Low 9:00 AM (PM) : AM PM

Canopy Cover %: Open: ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded:

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☒ Other: ☐

Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐

Sediment Deposition: Sludge: ☐ Sand smothering: none slight moderate severe Silt smothering: none slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand	20	6	grab
Rock or Shell Rubble	10	6	grab	Mud/Muck/Silt	70	6	grab
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	‰	% DO	Secchi (m):
Top	0.177	28.24	7.60	6.3	31422	19.4	89.9	1.5m
Mid-depth	2.331	28.40	7.72	5.24	32700	20.34	75.2	
Bottom (1)	4.705	28.67	7.54	2.2	36360	23.08	32.3	

4.732

System Type: Stream: ☐ (1st - 2nd order, 3rd - 4th order, 5th - 6th order, 7th order or greater) Estuary: ☐ Other: ☐

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐

Weather Conditions/Notes:

Heavy T storms
canceled half sampling

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☒	☐	☐	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mulky / Rick Abel		7/22/13

(1) 4673m 28.67C 7.69 3.02mg/l 35981 22.56‰ 45.3% D

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD 9000-30 MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 7/22/13	RECEIVING BODY OF WATER: Pensacola Bay

REMARKS:	LOCATION: 400 ft west of POD	FIELD ID/NAME: 400W

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 3	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed 6	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 6	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 5	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 33

COMMENTS:

ANALYSIS DATE: 7/22/13	ANALYST: Nathan Melby	SIGNATURE: Nathan Melby

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N 30.33714 W87.13163		8/1/13	0900	Pensacola Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
Surface + Sediments	Escambia	200 ft east of POD Pcola Beach	200 E

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☒

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous

Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High	06:30 (AM) PM	____ : ____	AM PM
Low	6:04 AM (PM)	____ : ____	AM PM

Canopy Cover % : Open : ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded:

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☒ Other: ☐

Sediment Oils: Absent: ☐ Slight: ☐ Moderate: ☒ Profuse: ☐

Sediment Deposition: Sludge: ☒ Sand smothering: none ☐ slight ☐ moderate ☐ severe ☐ Silt smothering: none ☐ slight ☐ moderate ☐ severe ☐ Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble	5	6	P Ponar	Mud/Muck/Silt	95	6	P Ponar
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☒ Sea Wall / Rip Rap

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO %	SAL	Secchi (m):
Top	0.152	29.83	8.05	6.88	25541	98.9	15.48	1.8
Mid-depth	2.293	29.83	8.05	6.55	25658	94.9	15.56	
Bottom	4.846	28.13	7.69	2.55	42309	31.7	27.08	

System Type : Stream: ☐ (1st - 2nd order ☐ 3rd - 4th order ☐ 5th - 6th order ☐ 7th order or greater ☐) Estuary: ☒ Other: ☐

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐

Weather Conditions/Notes:

Heavy thunderstorms in area
* existed site your had weather re launched in afternoon

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☒	☐	☐	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mulky / Mike King	Nathan Mulky	8/1/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 8/1/13	RECEIVING BODY OF WATER: Pensacola Bay

REMARKS:	LOCATION: 200 ft east of POD Pool Beach	FIELD ID/NAME: 200E

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 3	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed 6	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 6	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 2	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 29

COMMENTS: Sediment anaerobic odor Very little macro inverts/material

ANALYSIS DATE: 8/1/13	ANALYST: Nathan Malloy	SIGNATURE: Nathan Malloy

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.33726 87.13064		8/1/13	0925	Pensacola Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
Surface + Sediments	Escambia	400 ft east of POD Pick Rig	400 E

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)

Local Watershed Erosion (check box): None ☐ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☒

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous

Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High 06:30 AM ☒ PM ☐ : ____ AM ☐ PM ☒

Low 6:04 AM ☐ PM ☒ : ____ AM ☐ PM ☐

Canopy Cover % : Open : ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☒ Other: ☐ ____

Sediment Oils: Absent: ☐ Slight: ☐ Moderate: ☒ Profuse: ☐

Sediment Deposition: Sludge: ☒ Sand smothering: none ☐ slight ☐ moderate ☐ severe ☐ Silt smothering: none ☐ slight ☐ moderate ☐ severe ☐ Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble	5	6	P Ponar	Mud/Muck/Silt	95	6	P Ponar
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ ____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Sal	DO %	Secchi (m):
Top	0.163	29.88	8.06	6.85	25491	15.45	98.5	1.8
Mid-depth	2.469	29.64	8.03	6.46	25830	15.66	93.1	
Bottom	4.821	28.17	7.58	1.95	45293	29.23	29.7	

System Type : Stream: ☐ (1st - 2nd order 3rd - 4th order 5th - 6th order 7th order or greater) Estuary: ☒ Other: ☐ ____

Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ ____

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐ ____

Weather Conditions/Notes:

Heavy T storms

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☒	☐	☐	☐
Fish	☒	☐	☐	☐
Aquatic Macrophytes	☒	☐	☐	☐
Iron/sulfur Bacteria	☒	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Milby / Mike King	Nathan Milby	8/1/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 8/1/13	RECEIVING BODY OF WATER: Pensacola Bay

REMARKS:	LOCATION: 400 ft east of POD Pcola Beach	FIELD ID/NAME: 400 E

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 3	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed 6	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 6	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 2	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 29

COMMENTS: Little to no inverts/material

ANALYSIS DATE: 8/1/13	ANALYST: Nathan Malloy	SIGNATURE: Nathan Malloy

Appendix F

Chemical analysis of effluent and receiving water

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 8:00	Effluent	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	2.7	A	mg/L	0.2	2
7/22/2013 8:00	Effluent	W-SURF-SLT	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	100	LJ	IC25		
7/22/2013 8:00	Effluent	W-SURF-SLT	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100	LJ	IC25		
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Lead	0.20	U	ug/L	0.2	0.8
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Nickel	1.59		ug/L	0.25	1
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Selenium	0.20	U	ug/L	0.2	0.8
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Chromium	0.30	U	ug/L	0.3	1.2
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Arsenic	0.87	I	ug/L	0.25	1
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Copper	1.59		ug/L	0.5	1
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Cadmium	0.074	I	ug/L	0.05	0.2
7/22/2013 8:00	Effluent	W-SURF-SLT	Metals	Silver	0.025	U	ug/L	0.025	0.1
7/22/2013 8:00	Effluent	W-SURF-SLT	Nutrients	NO2NO3-N	0.031		mg N/L	0.004	0.01
7/22/2013 8:00	Effluent	W-SURF-SLT	Nutrients	Kjeldahl Nitrogen	0.61		mg N/L	0.08	0.2
7/22/2013 8:00	Effluent	W-SURF-SLT	Nutrients	TSS	2	U	mg/L	2	10
7/22/2013 8:00	Effluent	W-SURF-SLT	Nutrients	Total-P	0.35		mg P/L	0.005	0.05
7/22/2013 9:30	Effluent	W-SURF-SLT	AGP/LN	Algal Growth Potential	1.09		mg DryWt/L	0.3	0.9
7/22/2013 9:30	Effluent	W-SURF-SLT	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.00	U	mg DryWt/L	3	3
7/22/2013 9:30	Effluent	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.45	U	ug/L	0.45	1.4
7/22/2013 9:30	Effluent	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.62	U	ug/L	0.62	1.9
7/22/2013 9:30	Effluent	W-SURF-SLT	Overflow	Enterococci-Membrane Filter	2	U	cfu/100 mL	2	2
7/22/2013 9:30	Effluent	W-SURF-SLT	Overflow	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL	1	1
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Calcium	32.6		mg/L	0.075	0.3
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Magnesium	7.26		mg/L	0.04	0.16
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Sodium	90.7		mg/L	0.5	2
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Iron	36	I	ug/L	30	120
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Aluminum	60	I	ug/L	60	240
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Potassium	11.8		mg/L	0.3	1.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Metals	Zinc	51		ug/L	5	20
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	O-Phosphate-P	0.39		mg P/L	0.008	0.02
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Fluoride	0.32		mg F/L	0.035	0.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Sulfate	78		mg SO4/L	0.4	1
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Chloride	110		mg Cl/L	0.4	1
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Alkalinity	68		mg CaCO3/L	0.65	2.5
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Organic Carbon	4.6		mg C/L	0.5	1
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Ammonia-N	0.043		mg N/L	0.002	0.005

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Color (true)	2.7	I	PCU	2.5	6
7/22/2013 9:30	Effluent	W-SURF-SLT	Nutrients	Turbidity	0.60		NTU	0.1	0.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Metribuzin	0.022	U	ug/L	0.022	0.086
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Norflurazon	0.032	U	ug/L	0.032	0.13
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Parathion Methyl	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Parathion Ethyl	0.022	U	ug/L	0.022	0.086
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Chlorpyrifos Methyl	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Butylate	0.022	U	ug/L	0.022	0.086
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Azinphos Methyl	0.022	U	ug/L	0.022	0.086
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Diazinon	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Fonofos	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Prometryn	0.022	U	ug/L	0.022	0.086
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Alachlor	0.065	U	ug/L	0.065	0.26
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Metolachlor	0.065	U	ug/L	0.065	0.26
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Chlorpyrifos Ethyl	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Phorate	0.0054	U	ug/L	0.0054	0.022
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Sucralose	32		ug/L	0.2	1
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Malathion	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Atrazine	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Ethoprop	0.0054	U	ug/L	0.0054	0.022
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Fenamiphos	0.032	U	ug/L	0.032	0.13
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Metalaxyl	0.043	U	ug/L	0.043	0.17
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Ethion	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Bromacil	0.043	U	ug/L	0.043	0.17
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Ametryn	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Naled	0.043	U	ug/L	0.043	0.17
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Hexazinone	0.032	U	ug/L	0.032	0.13
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Simazine	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Pesticides	Mevinphos	0.011	U	ug/L	0.011	0.043
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	62
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Anthracene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.1	U	ug/L	2.1	8.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1	8.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)anthracene	0.21	U	ug/L	0.21	0.82

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)pyrene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Fluoranthene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Fluorene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1	8.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Phenanthrene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Pyrene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	UJ	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Acenaphthylene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	41
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Acenaphthene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	41	U	ug/L	41	160
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	62
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	410
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzo(k)fluoranthene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Naphthalene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1	8.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	1,4-Dioxane	0.97		ug/L	0.02	0.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzo(b)fluoranthene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4.1

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1	8.2
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Chrysene	0.21	U	ug/L	0.21	0.82
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4.1
7/22/2013 9:30	Effluent	W-SURF-SLT	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1	12
7/22/2013 9:30	Effluent	W-SURF-SLT	Field Parameter	Dissolved Oxygen	7.00		mg/L		
7/22/2013 9:30	Effluent	W-SURF-SLT	Field Parameter	Temperature	29.63		C		
7/22/2013 9:30	Effluent	W-SURF-SLT	Field Parameter	pH	6.77				
7/22/2013 9:30	Effluent	W-SURF-SLT	Field Parameter	Specific Conductance	701		umhos/cm		
7/22/2013 9:45	Field Blank	W-FIELD-BK	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.20	U	mg/L	0.2	2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Arsenic	0.25	U	ug/L	0.25	1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Silver	0.025	U	ug/L	0.025	0.1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Chromium	0.30	U	ug/L	0.3	1.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Nickel	0.25	U	ug/L	0.25	1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Calcium	0.075	U	mg/L	0.075	0.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Lead	0.20	U	ug/L	0.2	0.8
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Sodium	0.50	U	mg/L	0.5	2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Aluminum	60	U	ug/L	60	240
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Selenium	0.20	U	ug/L	0.2	0.8
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Cadmium	0.050	U	ug/L	0.05	0.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Iron	30	U	ug/L	30	120
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Magnesium	0.040	U	mg/L	0.04	0.16
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Zinc	5.0	U	ug/L	5	20
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Potassium	0.30	U	mg/L	0.3	1.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Metals	Copper	0.50	U	ug/L	0.5	1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Total-P	0.002	U	mg P/L	0.002	0.005
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	NO2NO3-N	0.004	I	mg N/L	0.004	0.01
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Turbidity	0.10	U	NTU	0.1	0.1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Organic Carbon	0.50	U	mg C/L	0.5	1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Sulfate	0.20	U	mg SO4/L	0.2	0.5
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	TSS	2	U	mg/L	2	10
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Fluoride	0.035	U	mg F/L	0.035	0.1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Chloride	0.20	U	mg Cl/L	0.2	0.5
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Color (true)	2.5	U	PCU	2.5	6
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Kjeldahl Nitrogen	0.080	U	mg N/L	0.08	0.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Ammonia-N	0.002	U	mg N/L	0.002	0.005
7/22/2013 9:45	Field Blank	W-FIELD-BK	Nutrients	Alkalinity	0.65	U	mg CaCO3/L	0.65	2.5

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Metolachlor	0.061	U	ug/L	0.061	0.24
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Norflurazon	0.030	U	ug/L	0.03	0.12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Simazine	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Azinphos Methyl	0.020	U	ug/L	0.02	0.081
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Metribuzin	0.020	U	ug/L	0.02	0.081
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Mevinphos	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Bromacil	0.041	U	ug/L	0.041	0.16
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Chlorpyrifos Ethyl	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Parathion Ethyl	0.020	U	ug/L	0.02	0.081
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Ametryn	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Fonofos	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Parathion Methyl	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Phorate	0.0051	U	ug/L	0.0051	0.02
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Hexazinone	0.030	U	ug/L	0.03	0.12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Malathion	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Alachlor	0.061	U	ug/L	0.061	0.24
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Naled	0.041	U	ug/L	0.041	0.16
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Butylate	0.020	U	ug/L	0.02	0.081
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Prometryn	0.020	U	ug/L	0.02	0.081
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Metalaxyl	0.041	U	ug/L	0.041	0.16
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Fenamiphos	0.030	U	ug/L	0.03	0.12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Diazinon	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Chlorpyrifos Methyl	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Atrazine	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Sucralose	0.0099	U	ug/L	0.0099	0.05
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Ethion	0.010	U	ug/L	0.01	0.041
7/22/2013 9:45	Field Blank	W-FIELD-BK	Pesticides	Ethoprop	0.0051	U	ug/L	0.0051	0.02
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	3,3'-Dichlorobenzidine	42	U	ug/L	42	170
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1	8.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Acenaphthene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzo(a)pyrene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1	8.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	42
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	4-Nitrophenol	16	U	ug/L	16	62

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1	8.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzo(b)fluoranthene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Fluorene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Pyrene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.1	U	ug/L	2.1	8.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Fluoranthene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Anthracene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzo(k)fluoranthene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Chrysene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1	8.3
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Acenaphthylene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1	12
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Naphthalene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Phenanthrene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	1,4-Dioxane	0.020	U	ug/L	0.02	0.1
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2,4-Dinitrophenol	16	UJ	ug/L	16	62
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	UJ	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	420
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4.2

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4.2
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Benzo(a)anthracene	0.21	U	ug/L	0.21	0.83
7/22/2013 9:45	Field Blank	W-FIELD-BK	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4.2
7/22/2013 11:45	400 West	W-SURF-SLT	AGP/LN	Algal Growth Potential	3.00	U	mg DryWt/L	3	3
7/22/2013 11:45	400 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.9	I	mg/L	0.2	2
7/22/2013 11:45	400 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.50	U	ug/L	0.5	1.5
7/22/2013 11:45	400 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	7.4		ug/L	0.69	2.1
7/22/2013 11:45	400 West	W-SURF-SLT	Overflow	Enterococci-Membrane Filter	4	B	cfu/100 mL	2	2
7/22/2013 11:45	400 West	W-SURF-SLT	Overflow	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL	1	1
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Potassium	221		mg/L	15	60
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Lead	0.60	U	ug/L	0.6	2.4
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Arsenic	1.4	I	ug/L	0.75	3
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Calcium	227		mg/L	0.22	0.9
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Iron	90	U	ug/L	90	360
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Nickel	0.75	U	ug/L	0.75	3
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Silver	0.075	U	ug/L	0.075	0.3
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Selenium	0.60	U	ug/L	0.6	2.4
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Copper	1.5	U	ug/L	1.5	3
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Zinc	15	U	ug/L	15	60
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Sodium	5,750		mg/L	25	100
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Magnesium	721		mg/L	2	8
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Aluminum	180	U	ug/L	180	720
7/22/2013 11:45	400 West	W-SURF-SLT	Metals	Chromium	0.90	U	ug/L	0.9	3.6
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	TSS	3	U	mg/L	3	10
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Chloride	11,000		mg Cl/L	40	100
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Turbidity	1.6	A	NTU	0.1	0.1
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Ammonia-N	0.012		mg N/L	0.002	0.005
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	NO2NO3-N	0.008	I	mg N/L	0.004	0.01
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Total-P	0.015		mg P/L	0.004	0.01
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Organic Carbon	4.6		mg C/L	1	2
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Alkalinity	79	A	mg CaCO3/L	0.65	2.5
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Color (true)	14		PCU	2.5	6
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Sulfate	1,500		mg SO4/L	40	100
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Kjeldahl Nitrogen	0.36	I	mg N/L	0.16	0.4
7/22/2013 11:45	400 West	W-SURF-SLT	Nutrients	Fluoride	0.78		mg F/L	0.18	0.5
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Metalaxyl	0.041	U	ug/L	0.041	0.16
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Phorate	0.0051	U	ug/L	0.0051	0.02
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Sucralose	0.074		ug/L	0.01	0.05

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Mevinphos	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Parathion Ethyl	0.020	U	ug/L	0.02	0.082
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Parathion Methyl	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Bromacil	0.041	U	ug/L	0.041	0.16
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Fonofos	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Metribuzin	0.020	U	ug/L	0.02	0.082
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Prometryn	0.020	U	ug/L	0.02	0.082
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Chlorpyrifos Methyl	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Diazinon	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Azinphos Methyl	0.020	U	ug/L	0.02	0.082
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Ethoprop	0.0051	U	ug/L	0.0051	0.02
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Fenamiphos	0.031	U	ug/L	0.031	0.12
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Hexazinone	0.031	U	ug/L	0.031	0.12
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Metolachlor	0.061	U	ug/L	0.061	0.25
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Norflurazon	0.031	U	ug/L	0.031	0.12
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Simazine	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Ametryn	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Butylate	0.020	U	ug/L	0.02	0.082
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Alachlor	0.061	U	ug/L	0.061	0.25
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Chlorpyrifos Ethyl	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Ethion	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Naled	0.041	U	ug/L	0.041	0.16
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Atrazine	0.013	I	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Pesticides	Malathion	0.010	U	ug/L	0.01	0.041
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Diethyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobenzene	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Di-n-butyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dichlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.9
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.9

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dimethylphenol	9.9	U	ug/L	9.9	40
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Butyl benzyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2-Nitrophenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.9
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	1,4-Dioxane	0.020	U	ug/L	0.02	0.1
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99	UJ	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzidine	99	U	ug/L	99	400
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Dimethyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobutadiene	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Phenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.9
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Isophorone	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2-Chloronaphthalene	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2-Chlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Di-n-octyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 11:45	400 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.9

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 11:45	400 West	W-SURF-SLT	Field Parameter	pH	7.60				
7/22/2013 11:45	400 West	W-SURF-SLT	Field Parameter	Sample Depth	0.15		m		
7/22/2013 11:45	400 West	W-SURF-SLT	Field Parameter	Temperature	28.24		C		
7/22/2013 11:45	400 West	W-SURF-SLT	Field Parameter	Dissolved Oxygen	6.30		mg/L		
7/22/2013 11:45	400 West	W-SURF-SLT	Field Parameter	Specific Conductance	31,422		umhos/cm		
7/22/2013 12:15	200 West	W-SURF-SLT	AGP/LN	Algal Growth Potential	3.00	AU	mg DryWt/L	3	3
7/22/2013 12:15	200 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	7.5		ug/L	0.62	1.9
7/22/2013 12:15	200 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.3	I	mg/L	0.2	2
7/22/2013 12:15	200 West	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.45	U	ug/L	0.45	1.4
7/22/2013 12:15	200 West	W-SURF-SLT	Overflow	Enterococci-Membrane Filter	2	U	cfu/100 mL	2	2
7/22/2013 12:15	200 West	W-SURF-SLT	Overflow	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL	1	1
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Arsenic	1.1	I	ug/L	0.75	3
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Iron	90	U	ug/L	90	360
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Copper	1.5	U	ug/L	1.5	3
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Sodium	5,980		mg/L	25	100
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Aluminum	180	U	ug/L	180	720
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Silver	0.075	U	ug/L	0.075	0.3
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Magnesium	748		mg/L	2	8
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Zinc	15	U	ug/L	15	60
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Nickel	0.75	U	ug/L	0.75	3
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Selenium	0.60	U	ug/L	0.6	2.4
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Lead	0.60	U	ug/L	0.6	2.4
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Chromium	0.90	U	ug/L	0.9	3.6
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Potassium	231		mg/L	15	60
7/22/2013 12:15	200 West	W-SURF-SLT	Metals	Calcium	228		mg/L	0.22	0.9
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	NO2NO3-N	0.009	I	mg N/L	0.004	0.01
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Alkalinity	80		mg CaCO3/L	0.65	2.5
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Turbidity	1.6		NTU	0.1	0.1
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	TSS	4	I	mg/L	3	10
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Color (true)	14		PCU	2.5	6
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Organic Carbon	4.5		mg C/L	1	2
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Total-P	0.014		mg P/L	0.004	0.01
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Chloride	11,000		mg Cl/L	40	100
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Kjeldahl Nitrogen	0.40	I	mg N/L	0.16	0.4
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Ammonia-N	0.014		mg N/L	0.002	0.005
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Sulfate	1,500		mg SO4/L	40	100

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 12:15	200 West	W-SURF-SLT	Nutrients	Fluoride	0.78		mg F/L	0.18	0.5
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Bromacil	0.040	U	ug/L	0.04	0.16
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Norflurazon	0.030	U	ug/L	0.03	0.12
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Prometryn	0.020	U	ug/L	0.02	0.08
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Diazinon	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Malathion	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Alachlor	0.060	U	ug/L	0.06	0.24
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Chlorpyrifos Ethyl	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Metolachlor	0.060	U	ug/L	0.06	0.24
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Butylate	0.020	U	ug/L	0.02	0.08
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Chlorpyrifos Methyl	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Hexazinone	0.030	U	ug/L	0.03	0.12
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Mevinphos	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Sucralose	0.031	I	ug/L	0.01	0.05
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Atrazine	0.013	I	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Ethion	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Fenamiphos	0.030	U	ug/L	0.03	0.12
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Naled	0.040	U	ug/L	0.04	0.16
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Parathion Ethyl	0.020	U	ug/L	0.02	0.08
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Parathion Methyl	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Simazine	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Metalaxyl	0.040	U	ug/L	0.04	0.16
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Metribuzin	0.020	U	ug/L	0.02	0.08
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Phorate	0.0050	U	ug/L	0.005	0.02
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Ametryn	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Azinphos Methyl	0.020	U	ug/L	0.02	0.08
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Ethoprop	0.0050	U	ug/L	0.005	0.02
7/22/2013 12:15	200 West	W-SURF-SLT	Pesticides	Fonofos	0.010	U	ug/L	0.01	0.04
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2-Chloronaphthalene	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.9
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobutadiene	3.0	U	ug/L	3	12

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	1,4-Dioxane	1.1		ug/L	0.02	0.1
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Butyl benzyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dichlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dimethylphenol	9.9	U	ug/L	9.9	40
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.9
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2-Chlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99	UJ	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.9
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.9
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.9
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Di-n-butyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobenzene	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Isophorone	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2-Nitrophenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzidine	99	U	ug/L	99	400
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Di-n-octyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Phenol	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Diethyl phthalate	0.99	U	ug/L	0.99	4

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Dimethyl phthalate	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.79
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99	U	ug/L	0.99	4
7/22/2013 12:15	200 West	W-SURF-SLT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
7/22/2013 12:15	200 West	W-SURF-SLT	Field Parameter	pH	7.89				
7/22/2013 12:15	200 West	W-SURF-SLT	Field Parameter	Temperature	28.42		C		
7/22/2013 12:15	200 West	W-SURF-SLT	Field Parameter	Specific Conductance	31,505		umhos/cm		
7/22/2013 12:15	200 West	W-SURF-SLT	Field Parameter	Dissolved Oxygen	6.31		mg/L		
7/22/2013 12:15	200 West	W-SURF-SLT	Field Parameter	Sample Depth	0.15		m		
7/22/2013 13:00	200 East	W-SURF-SLT	Overflow	Fecal Coliforms-Membrane Filter	2	U	cfu/100 mL	2	2
7/22/2013 13:00	200 East	W-SURF-SLT	Overflow	Enterococci-Membrane Filter	2	U	cfu/100 mL	2	2
7/22/2013 13:10	400 East	W-SURF-SLT	Overflow	Enterococci-Membrane Filter	2	U	cfu/100 mL	2	2
7/22/2013 13:10	400 East	W-SURF-SLT	Overflow	Fecal Coliforms-Membrane Filter	2	B	cfu/100 mL	2	2
8/1/2013 10:00	200 East	W-SURF-SLT	AGP/LN	Algal Growth Potential	3.00	UQ	mg DryWt/L	3	3
8/1/2013 10:00	200 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	5.1		ug/L	0.62	1.9
8/1/2013 10:00	200 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.96	I	mg/L	0.2	2
8/1/2013 10:00	200 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.45	U	ug/L	0.45	1.4
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Potassium	170		mg/L	6	24
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Arsenic	1.2	I	ug/L	0.75	3
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Chromium	0.90	U	ug/L	0.9	3.6
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Magnesium	572		mg/L	0.8	3.2
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Zinc	5.0	U	ug/L	5	20
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Copper	1.5	U	ug/L	1.5	3
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Lead	0.60	U	ug/L	0.6	2.4
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Nickel	0.75	U	ug/L	0.75	3
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Calcium	177		mg/L	0.075	0.3
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Aluminum	60	U	ug/L	60	240
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Iron	30	U	ug/L	30	120
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Sodium	4,760		mg/L	25	100
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Selenium	0.60	U	ug/L	0.6	2.4
8/1/2013 10:00	200 East	W-SURF-SLT	Metals	Silver	0.075	U	ug/L	0.075	0.3
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Organic Carbon	6.0		mg C/L	1	2
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Total-P	0.013		mg P/L	0.004	0.01
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Fluoride	0.61		mg F/L	0.18	0.5
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	NO2NO3-N	0.006	I	mg N/L	0.004	0.01
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	TSS	3	U	mg/L	3	10
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Color (true)	17		PCU	2.5	6
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Chloride	8,500		mg Cl/L	20	50

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Kjeldahl Nitrogen	0.42		mg N/L	0.16	0.4
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Ammonia-N	0.003	I	mg N/L	0.002	0.005
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Alkalinity	68	A	mg CaCO3/L	0.65	2.5
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Turbidity	1.3		NTU	0.1	0.1
8/1/2013 10:00	200 East	W-SURF-SLT	Nutrients	Sulfate	1,200		mg SO4/L	20	50
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Hexazinone	0.033	U	ug/L	0.033	0.13
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Prometryn	0.022	U	ug/L	0.022	0.088
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Fonofos	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Diazinon	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Chlorpyrifos Methyl	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Bromacil	0.044	U	ug/L	0.044	0.18
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Malathion	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Simazine	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Phorate	0.0055	U	ug/L	0.0055	0.022
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Norflurazon	0.033	U	ug/L	0.033	0.13
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Metolachlor	0.066	U	ug/L	0.066	0.27
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Ametryn	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Atrazine	0.012	I	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Alachlor	0.066	U	ug/L	0.066	0.27
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Ethoprop	0.0055	U	ug/L	0.0055	0.022
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Parathion Methyl	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Mevinphos	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Fenamiphos	0.033	UJ	ug/L	0.033	0.13
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Metribuzin	0.022	U	ug/L	0.022	0.088
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Sucralose	0.055		ug/L	0.01	0.05
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Ethion	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Chlorpyrifos Ethyl	0.011	U	ug/L	0.011	0.044
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Parathion Ethyl	0.022	UJ	ug/L	0.022	0.088
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Metalaxyl	0.044	U	ug/L	0.044	0.18
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Butylate	0.022	U	ug/L	0.022	0.088
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Azinphos Methyl	0.022	U	ug/L	0.022	0.088
8/1/2013 10:00	200 East	W-SURF-SLT	Pesticides	Naled	0.044	U	ug/L	0.044	0.18
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.9
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Butyl benzyl phthalate	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99	U	ug/L	0.99	4

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzidine	99	U	ug/L	99	400
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.9
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Pyrene	0.20	UJ	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Diethyl phthalate	0.99	UJ	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobenzene	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dichlorophenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.9
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Dimethyl phthalate	0.99	UJ	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Isophorone	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.9
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Di-n-butyl phthalate	0.99	UJ	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	UJ	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.9
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	1,4-Dioxane	0.020	U	ug/L	0.02	0.1
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2-Chlorophenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Phenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobutadiene	3.0	U	ug/L	3	12

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dimethylphenol	9.9	U	ug/L	9.9	40
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2-Chloronaphthalene	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	2-Nitrophenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.79
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Di-n-octyl phthalate	0.99	U	ug/L	0.99	4
8/1/2013 10:00	200 East	W-SURF-SLT	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
8/1/2013 10:00	200 East	W-SURF-SLT	Field Parameter	Dissolved Oxygen	6.88		mg/L		
8/1/2013 10:00	200 East	W-SURF-SLT	Field Parameter	Temperature	29.83		C		
8/1/2013 10:00	200 East	W-SURF-SLT	Field Parameter	pH	8.05				
8/1/2013 10:00	200 East	W-SURF-SLT	Field Parameter	Specific Conductance	25,541		umhos/cm		
8/1/2013 10:00	200 East	W-SURF-SLT	Field Parameter	Sample Depth	0.15		m		
8/1/2013 10:25	400 East	W-SURF-SLT	AGP/LN	Algal Growth Potential	3.00	AUQ	mg DryWt/L	3	3
8/1/2013 10:25	400 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	5.4		ug/L	0.62	1.9
8/1/2013 10:25	400 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.2	I	mg/L	0.2	2
8/1/2013 10:25	400 East	W-SURF-SLT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.45	U	ug/L	0.45	1.4
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Zinc	5.0	U	ug/L	5	20
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Copper	1.5	U	ug/L	1.5	3
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Nickel	0.75	U	ug/L	0.75	3
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Aluminum	60	U	ug/L	60	240
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Magnesium	598		mg/L	0.8	3.2
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Sodium	4,870		mg/L	25	100
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Selenium	0.66	I	ug/L	0.6	2.4
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Lead	0.60	U	ug/L	0.6	2.4
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Chromium	0.90	U	ug/L	0.9	3.6
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Iron	30	U	ug/L	30	120
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Calcium	173		mg/L	0.075	0.3
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Silver	0.075	U	ug/L	0.075	0.3
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Potassium	179		mg/L	6	24
8/1/2013 10:25	400 East	W-SURF-SLT	Metals	Arsenic	1.4	I	ug/L	0.75	3
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Ammonia-N	0.003	I	mg N/L	0.002	0.005
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Sulfate	1,200		mg SO4/L	20	50
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Fluoride	0.61		mg F/L	0.18	0.5
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Chloride	8,500		mg Cl/L	20	50
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Alkalinity	68	A	mg CaCO3/L	0.65	2.5
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	TSS	4	I	mg/L	3	10

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Kjeldahl Nitrogen	0.50		mg N/L	0.16	0.4
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Turbidity	1.3		NTU	0.1	0.1
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Total-P	0.012		mg P/L	0.004	0.01
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	NO2NO3-N	0.005	I	mg N/L	0.004	0.01
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Color (true)	17	A	PCU	2.5	6
8/1/2013 10:25	400 East	W-SURF-SLT	Nutrients	Organic Carbon	5.9		mg C/L	1	2
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Azinphos Methyl	0.019	U	ug/L	0.019	0.078
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Fenamiphos	0.029	UJ	ug/L	0.029	0.12
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Metalaxyl	0.039	U	ug/L	0.039	0.16
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Simazine	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Sucralose	0.035	I	ug/L	0.01	0.05
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Ametryn	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Atrazine	0.013	I	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Malathion	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Chlorpyrifos Methyl	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Ethion	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Fonofos	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Metribuzin	0.019	U	ug/L	0.019	0.078
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Norflurazon	0.029	U	ug/L	0.029	0.12
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Prometryn	0.019	U	ug/L	0.019	0.078
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Mevinphos	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Diazinon	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Metolachlor	0.058	U	ug/L	0.058	0.23
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Parathion Ethyl	0.019	UJ	ug/L	0.019	0.078
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Phorate	0.0048	U	ug/L	0.0048	0.019
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Alachlor	0.058	U	ug/L	0.058	0.23
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Bromacil	0.039	U	ug/L	0.039	0.16
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Butylate	0.019	U	ug/L	0.019	0.078
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Chlorpyrifos Ethyl	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Hexazinone	0.029	U	ug/L	0.029	0.12
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Naled	0.039	U	ug/L	0.039	0.16
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Ethoprop	0.0048	U	ug/L	0.0048	0.019
8/1/2013 10:25	400 East	W-SURF-SLT	Pesticides	Parathion Methyl	0.0097	U	ug/L	0.0097	0.039
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,6-Dinitrotoluene	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.8
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.8
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Di-n-octyl phthalate	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.78

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	UJ	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Isophorone	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	1,4-Dioxane	0.020	U	ug/L	0.02	0.1
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzidine	98	U	ug/L	98	390
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Dimethyl phthalate	0.98	UJ	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.8
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.8
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Phenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dinitrotoluene	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dichlorophenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2,4-Dimethylphenol	9.8	U	ug/L	9.8	39
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Di-n-butyl phthalate	0.98	UJ	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Pyrene	0.20	UJ	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2-Nitrophenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39	U	ug/L	39	160
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Butyl benzyl phthalate	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Diethyl phthalate	0.98	UJ	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.8

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2-Chloronaphthalene	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	2-Chlorophenol	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Hexachlorobenzene	0.98	U	ug/L	0.98	3.9
8/1/2013 10:25	400 East	W-SURF-SLT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.78
8/1/2013 10:25	400 East	W-SURF-SLT	Field Parameter	Sample Depth	0.15		m		
8/1/2013 10:25	400 East	W-SURF-SLT	Field Parameter	pH	8.06				
8/1/2013 10:25	400 East	W-SURF-SLT	Field Parameter	Specific Conductance	25,498		umhos/cm		
8/1/2013 10:25	400 East	W-SURF-SLT	Field Parameter	Temperature	29.88		C		
8/1/2013 10:25	400 East	W-SURF-SLT	Field Parameter	Dissolved Oxygen	6.85		mg/L		
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	31.1		% vol <2mm	0	0.01
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.0	K	% dry wt		
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	0.510		% vol <2mm	0	0.01
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1.0		%totdrywt	0	1
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	9.48		% vol <2mm	0	0.01
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	2.73		% vol <2mm	0	0.01
8/1/2013 11:00	400 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	56.2		% vol <2mm	0	0.01
8/1/2013 11:00	400 West	W-SURF-SLT	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	32		# Taxa		
8/1/2013 11:00	400 West	S-SOIL	Metals	Chromium	1.07		mg/Kg	0.14	0.54
8/1/2013 11:00	400 West	S-SOIL	Metals	Lead	0.43	I	mg/Kg	0.34	1.4
8/1/2013 11:00	400 West	S-SOIL	Metals	Nickel	0.31	I	mg/Kg	0.18	0.72
8/1/2013 11:00	400 West	S-SOIL	Metals	Silver	0.011	U	mg/Kg	0.011	0.045
8/1/2013 11:00	400 West	S-SOIL	Metals	Cadmium	0.045	U	mg/Kg	0.045	0.18
8/1/2013 11:00	400 West	S-SOIL	Metals	Zinc	1.8	U	mg/Kg	1.8	7.2
8/1/2013 11:00	400 West	S-SOIL	Metals	Copper	0.37	I	mg/Kg	0.23	0.91
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,6-Dinitrotoluene	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Acenaphthylene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzo(g,h,i)perylene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Chrysene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodimethylamine	460	U	ug/kg	460	1900
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2-Chloronaphthalene	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	4-Bromophenyl phenyl ether	77	UJ	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Acenaphthene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Diethyl phthalate	100	I	ug/kg	77	310

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Hexachlorocyclopentadiene	77	UJ	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Phenanthrene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	3,3'-Dichlorobenzidine	4,600	U	ug/kg	4600	19000
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzo(a)anthracene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Dimethyl phthalate	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Hexachloroethane	230	U	ug/kg	230	930
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Pentachlorophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	4-Nitrophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzo(b)fluoranthene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	460	U	ug/kg	460	1900
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Fluoranthene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2-Nitrophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethyl)ether	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Dibenzo(a,h)anthracene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Hexachlorobutadiene	230	U	ug/kg	230	930
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Nitrobenzene	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Pyrene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,4,6-Trichlorophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,4-Dinitrotoluene	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2-Chlorophenol	230	U	ug/kg	230	930
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzidine	1,700	UJ	ug/kg	1700	6700
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzo(k)fluoranthene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Butyl benzyl phthalate	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	1,2,4-Trichlorobenzene	230	U	ug/kg	230	930
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,4-Dichlorophenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,4-Dinitrophenol	460	UJ	ug/kg	460	1900
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	4-Chloro-3-methylphenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Benzo(a)pyrene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Fluorene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Isophorone	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Naphthalene	8.6	U	ug/kg	8.6	34

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	2,4-Dimethylphenol	460	U	ug/kg	460	1900
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Anthracene	8.6	U	ug/kg	8.6	34
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Di-n-butyl phthalate	460	U	ug/kg	460	1900
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Di-n-octyl phthalate	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Hexachlorobenzene	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Priority Organic Pollutants	Phenol	77	U	ug/kg	77	310
8/1/2013 11:00	400 West	S-SOIL	Nutrients	% Solid	77.5	A	%	0.1	0.1
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.0	K	% dry wt		
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	13.8		% vol <2mm	0	0.01
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1.0		%totdrywt	0	1
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	1.97		% vol <2mm	0	0.01
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	14.7		% vol <2mm	0	0.01
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	49.4		% vol <2mm	0	0.01
8/1/2013 13:40	200 West	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	20.2		% vol <2mm	0	0.01
8/1/2013 13:40	200 West	W-SURF-SLT	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	3		# Taxa		
8/1/2013 13:40	200 West	S-SOIL	Metals	Nickel	0.90		mg/Kg	0.18	0.71
8/1/2013 13:40	200 West	S-SOIL	Metals	Silver	0.011	U	mg/Kg	0.011	0.044
8/1/2013 13:40	200 West	S-SOIL	Metals	Chromium	3.05		mg/Kg	0.13	0.53
8/1/2013 13:40	200 West	S-SOIL	Metals	Copper	1.20		mg/Kg	0.22	0.88
8/1/2013 13:40	200 West	S-SOIL	Metals	Lead	1.2	I	mg/Kg	0.33	1.3
8/1/2013 13:40	200 West	S-SOIL	Metals	Zinc	4.3	I	mg/Kg	1.8	7.1
8/1/2013 13:40	200 West	S-SOIL	Metals	Cadmium	0.044	U	mg/Kg	0.044	0.18
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Pentachlorophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,6-Dinitrotoluene	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2-Chloronaphthalene	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2-Nitrophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzo(g,h,i)perylene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	500	U	ug/kg	500	2000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Di-n-butyl phthalate	500	U	ug/kg	500	2000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Diethyl phthalate	110	I	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Dimethyl phthalate	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Hexachlorobenzene	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Nitrobenzene	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,4-Dichlorophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,4-Dimethylphenol	500	U	ug/kg	500	2000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2-Chlorophenol	250	U	ug/kg	250	1000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzidine	1,800	U	ug/kg	1800	7300
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Butyl benzyl phthalate	84	U	ug/kg	84	340

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Di-n-octyl phthalate	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodimethylamine	500	U	ug/kg	500	2000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	4-Bromophenyl phenyl ether	84	UJ	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	4-Nitrophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Anthracene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Dibenzo(a,h)anthracene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Fluorene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Hexachlorocyclopentadiene	84	UJ	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,4,6-Trichlorophenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	4-Chloro-3-methylphenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzo(k)fluoranthene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethyl)ether	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Naphthalene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Pyrene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzo(a)anthracene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Phenol	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	1,2,4-Trichlorobenzene	250	U	ug/kg	250	1000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,4-Dinitrophenol	500	UJ	ug/kg	500	2000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	3,3'-Dichlorobenzidine	5,000	U	ug/kg	5000	20000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Acenaphthene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Acenaphthylene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzo(a)pyrene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Benzo(b)fluoranthene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Phenanthrene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Isophorone	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Hexachloroethane	250	U	ug/kg	250	1000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Hexachlorobutadiene	250	U	ug/kg	250	1000
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Fluoranthene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	2,4-Dinitrotoluene	84	U	ug/kg	84	340
8/1/2013 13:40	200 West	S-SOIL	Priority Organic Pollutants	Chrysene	9.3	U	ug/kg	9.3	37
8/1/2013 13:40	200 West	S-SOIL	Nutrients	% Solid	71.2		%		
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	8.92		% vol <2mm	0	0.01

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1.0		%totdrywt	0	1
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	9.65		% vol <2mm	0	0.01
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment % Organic	6.2		% dry wt		
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	14.8		% vol <2mm	0	0.01
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	63.4		% vol <2mm	0	0.01
8/1/2013 14:15	200 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	3.21		% vol <2mm	0	0.01
8/1/2013 14:15	200 East	W-SURF-SLT	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	2		# Taxa		
8/1/2013 14:15	200 East	S-SOIL	Metals	Nickel	5.81		mg/Kg	0.2	0.79
8/1/2013 14:15	200 East	S-SOIL	Metals	Copper	8.73		mg/Kg	0.25	0.98
8/1/2013 14:15	200 East	S-SOIL	Metals	Chromium	20.8		mg/Kg	0.15	0.59
8/1/2013 14:15	200 East	S-SOIL	Metals	Silver	0.065		mg/Kg	0.012	0.049
8/1/2013 14:15	200 East	S-SOIL	Metals	Lead	9.2		mg/Kg	0.37	1.5
8/1/2013 14:15	200 East	S-SOIL	Metals	Zinc	32.6		mg/Kg	2	7.9
8/1/2013 14:15	200 East	S-SOIL	Metals	Cadmium	0.16	I	mg/Kg	0.049	0.2
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,4-Dimethylphenol	970	U	ug/kg	970	3900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Hexachloroethane	490	U	ug/kg	490	1900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Nitrobenzene	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,4-Dinitrotoluene	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzo(g,h,i)perylene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Chrysene	31	I	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Hexachlorobenzene	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,4-Dichlorophenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	4-Chloro-3-methylphenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Acenaphthene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzo(k)fluoranthene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Isophorone	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Phenanthrene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Phenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Pyrene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,4-Dinitrophenol	970	UJ	ug/kg	970	3900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	4-Bromophenyl phenyl ether	160	UJ	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Anthracene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	970	U	ug/kg	970	3900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Di-n-octyl phthalate	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Dibenzo(a,h)anthracene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Diethyl phthalate	190	I	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Pentachlorophenol	160	U	ug/kg	160	650

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,4,6-Trichlorophenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzo(a)anthracene	23	I	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Di-n-butyl phthalate	970	U	ug/kg	970	3900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Fluoranthene	19	I	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodimethylamine	970	U	ug/kg	970	3900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2-Chlorophenol	490	U	ug/kg	490	1900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2-Nitrophenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Acenaphthylene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzo(a)pyrene	23	I	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzo(b)fluoranthene	39	I	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Butyl benzyl phthalate	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2,6-Dinitrotoluene	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	2-Chloronaphthalene	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	4-Nitrophenol	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Hexachlorobutadiene	490	U	ug/kg	490	1900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Hexachlorocyclopentadiene	160	UJ	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	1,2,4-Trichlorobenzene	490	U	ug/kg	490	1900
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9,700	U	ug/kg	9700	39000
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Benzidine	3,500	U	ug/kg	3500	14000
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethyl)ether	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Dimethyl phthalate	160	U	ug/kg	160	650
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Fluorene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Priority Organic Pollutants	Naphthalene	18	U	ug/kg	18	72
8/1/2013 14:15	200 East	S-SOIL	Nutrients	% Solid	37.0		%		
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	85.0	A	% vol <2mm	0	0.01
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	0.100	A	% vol <2mm	0	0.01
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1.0	K	%totdrywt	0	1
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	11.8	A	% vol <2mm	0	0.01
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	0.100	A	% vol <2mm	0	0.01
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	3.12	AJ	% vol <2mm	0	0.01
8/1/2013 14:40	400 East	S-SOIL	Chlorophyll/Grain Size/BOD	Sediment % Organic	18	A	% dry wt		
8/1/2013 14:40	400 East	W-SURF-SLT	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	7		# Taxa		
8/1/2013 14:40	400 East	S-SOIL	Metals	Lead	28.9		mg/Kg	0.37	1.5

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 14:40	400 East	S-SOIL	Metals	Zinc	101		mg/Kg	2	7.9
8/1/2013 14:40	400 East	S-SOIL	Metals	Copper	27.2		mg/Kg	0.25	0.99
8/1/2013 14:40	400 East	S-SOIL	Metals	Cadmium	0.53		mg/Kg	0.05	0.2
8/1/2013 14:40	400 East	S-SOIL	Metals	Chromium	65.2		mg/Kg	0.15	0.6
8/1/2013 14:40	400 East	S-SOIL	Metals	Nickel	18.0		mg/Kg	0.2	0.79
8/1/2013 14:40	400 East	S-SOIL	Metals	Silver	0.214		mg/Kg	0.012	0.05
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Phenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,4-Dichlorophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Diethyl phthalate	410	I	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Phenanthrene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Pyrene	66	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	4-Bromophenyl phenyl ether	360	UJ	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzo(k)fluoranthene	48	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Chrysene	70	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Dibenzo(a,h)anthracene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,6-Dinitrotoluene	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Acenaphthylene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzidine	7,800	U	ug/kg	7800	31000
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Acenaphthene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzo(a)anthracene	54	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroethyl)ether	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Di-n-octyl phthalate	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Dimethyl phthalate	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Hexachlorocyclopentadiene	360	UJ	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Naphthalene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Pentachlorophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1,100	U	ug/kg	1100	4300
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,4-Dimethylphenol	2,200	U	ug/kg	2200	8600
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,4-Dinitrophenol	2,200	UJ	ug/kg	2200	8600
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2-Nitrophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Butyl benzyl phthalate	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Fluoranthene	80	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	46	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	360	U	ug/kg	360	1400

Date_Sampled	UDL	Matrix	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,4,6-Trichlorophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Anthracene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzo(a)pyrene	64	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Hexachlorobenzene	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Isophorone	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Nitrobenzene	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2,4-Dinitrotoluene	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2-Chloronaphthalene	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	2-Chlorophenol	1,100	U	ug/kg	1100	4300
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	3,3'-Dichlorobenzidine	22,000	U	ug/kg	22000	86000
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	4-Chloro-3-methylphenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzo(g,h,i)perylene	54	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2,200	U	ug/kg	2200	8600
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Di-n-butyl phthalate	2,200	U	ug/kg	2200	8600
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Fluorene	40	U	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Hexachlorobutadiene	1,100	U	ug/kg	1100	4300
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	N-Nitrosodimethylamine	2,200	U	ug/kg	2200	8600
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	4-Nitrophenol	360	U	ug/kg	360	1400
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Benzo(b)fluoranthene	100	I	ug/kg	40	160
8/1/2013 14:40	400 East	S-SOIL	Priority Organic Pollutants	Hexachloroethane	1,100	U	ug/kg	1100	4300
8/1/2013 14:40	400 East	S-SOIL	Nutrients	% Solid	16.6		%		

EPA End Sheet

The Bioassay of the Pensacola Beach WWTF effluent sampled on July 22, 2013, NPDES #FL0024007

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 FL00240078	11 12	130722		# B	# S	# 1

Remarks

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The Priority Pollutants Analysis of the Pensacola Beach WWTF effluent sampled on July 22, 2013 NPDES #FL0024007

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 FL00240078	11 12	130722		# X	# S	# 1

Remarks

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Biological Analyses of the Pensacola Beach WWTF effluent sampled on July 22, 2013, NPDES #FL0024007

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 FL00240078	11 12	130722		# S	# S	# 1

Remarks

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