

NOTE: Laboratory Acronyms - EBL = Environmental Bioassay Laboratory, SES = Shealy Environmental Services

NOTE: ♦ Not calculated due to less than value

NOTE: (1) Field Blank (not Outfall) result

Data Table 8-3 NPDES Duplicate Sample Results
Sample Measurement Section
2014 NPDES Duplicate Sample Results

Sample Date	NPDES Site	Laboratory	Parameter	Units	Outfall Value	Duplicate Value	Relative % Difference	Relative Percent Difference (< 20 %)
1/6/2014	H-16	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
1/6/2014	H-16	SES	Total Suspended Solids	mg/L	<1.0	<1.0	♦	♦
1/9/2014	A-11	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
1/9/2014	A-11	EBL	Total Suspended Solids	mg/L	<1.0	<1.0	♦	♦
2/11/2014	A-01	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
2/11/2014	A-01	EBL	Iron	mg/L	0.0966	0.0944	2.3	Yes
2/10/2014	A-01	SES	Oil & Grease	mg/L	<4.0	<4.0	♦	♦
2/11/2014	A-01	EBL	Total Suspended Solids	mg/L	1.0	1.0	0.0	Yes
2/11/2014	H-12	EBL	Copper	mg/L	0.0086	0.0081	6.0	Yes
2/11/2014	H-12	EBL	Zinc	mg/L	0.0569	0.0564	0.9	Yes
3/11/2014	A-1A	SES	Trichloroethylene	µg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
3/11/2014	A-1A	SES	Tetrachloroethylene	µg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
3/11/2014	A-11	SES	Low Level Mercury	ng/L	3.04	3.19	4.8	Yes
3/11/2014	M-05	SES	Trichloroethylene	µg/L	<2.0	<2.0	♦	♦
3/11/2014	M-05	SES	Tetrachloroethylene	µg/L	<2.0	<2.0	♦	♦
3/19/2014	K-18	EBL	pH	SU	6.9	6.9	0.0	Yes
3/19/2014	L-07	EBL	pH	SU	7.0	7.0	0.0	Yes
4/15/2014	H-16	SES	Cadmium	mg/L	<0.0001	<0.0001	♦	♦
4/15/2014	H-16	SES	Chromium	mg/L	<0.005	<0.005	♦	♦
4/15/2014	H-16	SES	Copper	mg/L	<0.005	<0.005	♦	♦
4/15/2014	H-16	SES	Lead	mg/L	<0.002	<0.002	♦	♦
4/15/2014	H-16	SES	Nickel	mg/L	<0.01	<0.01	♦	♦
4/15/2014	H-16	SES	Silver	mg/L	<0.005	<0.005	♦	♦
4/15/2014	H-16	SES	Zinc	mg/L	<0.005	<0.005	♦	♦
4/15/2014	H-16	SES	Mercury	mg/L	<0.0001	<0.0001	♦	♦
5/6/2014	A-1A	SES	Trichloroethylene	µg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5/6/2014	A-1A	SES	Tetrachloroethylene	µg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5/12/2014	A-11	SES	Low Level Mercury Blank	ng/L	<0.5 ¹	<0.5	♦	♦
5/12/2014	F-08	EBL	Lead	mg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5/12/2014	F-08	EBL	Zinc	mg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6/3/2014	A-11	EBL	Total Suspended Solids	mg/L	<1.0	<1.0	♦	♦
6/3/2014	A-11	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
6/4/2014	K-18	EBL	pH	SU	6.8	7.0	2.9	Yes
6/5/2014	K-18	EBL	Total Suspended Solids	mg/L	1.0	1.0	0.0	Yes
6/4/2014	L-07	EBL	pH	SU	6.9	7.1	2.9	Yes
6/5/2014	L-07	EBL	Total Suspended Solids	mg/L	<1.0	1.0	♦	♦
6/5/2014	H-07	EBL	Total Suspended Solids	mg/L	9.0	10.0	10.5	Yes
6/9/2014	M-05	SES	Tetrachloroethylene	µg/L	<2.0	<2.0	♦	♦
6/9/2014	M-05	SES	Trichloroethylene	µg/L	<2.0	<2.0	♦	♦
6/10/2014	H-12	EBL	Copper	mg/L	0.0062	0.0061	1.6	Yes
6/10/2014	H-12	EBL	Zinc	mg/L	0.0175	0.0178	1.7	Yes
7/22/2014	A-01	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦

2014 NPDES Duplicate Sample Results

Sample Date	NPDES Site	Laboratory	Parameter	Units	Outfall Value	Duplicate Value	Relative % Difference	Relative Percent Difference (< 20 %)
7/22/2014	A-01	EBL	Iron	mg/L	0.9535	1.0017	4.9	Yes
7/21/2014	A-01	SES	Oil & Grease	mg/L	<4.0	<4.0	♦	♦
7/22/2014	A-01	EBL	Total Suspended Solids	mg/L	5.0	5.0	0.0	Yes
7/22/2014	A-11	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
7/22/2014	A-11	EBL	Total Suspended Solids	mg/L	<1.0	0.0	♦	♦
8/11/2014	H-16	SES	Cadmium	mg/l	<0.0001	<0.0001	♦	♦
8/11/2014	H-16	SES	Chromium	mg/l	<0.005	<0.005	♦	♦
8/11/2014	H-16	SES	Copper	mg/l	<0.005	<0.005	♦	♦
8/11/2014	H-16	SES	Lead	mg/l	<0.002	<0.002	♦	♦
8/11/2014	H-16	SES	Nickel	mg/l	<0.01	<0.01	♦	♦
8/11/2014	H-16	SES	Silver	mg/l	<0.005	<0.005	♦	♦
8/11/2014	H-16	SES	Zinc	mg/l	0.0064	0.0063	1.6	Yes
8/11/2014	H-16	SES	Mercury	mg/l	<0.0001	<0.0001	♦	♦
8/13/2014	A-01	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	♦	♦
8/13/2014	A-01	EBL	Iron	mg/L	0.4572	0.4319	5.7	Yes
8/13/2014	A-01	SES	Oil & Grease	mg/L	<5.0	<5.3	♦	♦
8/13/2014	A-01	EBL	Total Suspended Solids	mg/L	4.0	2.0	66.7	No
8/19/2014	H-02	EBL	Copper	mg/L	<0.005	<0.005	♦	♦
8/19/2014	H-02	EBL	Lead	mg/L	<0.002	<0.002	♦	♦
8/19/2014	H-02	EBL	Zinc	mg/L	<0.0100	0.0133	♦	♦
9/15/2014	K-18	EBL	pH	SU	6.6	6.6	0.0	Yes
9/15/2014	L-07	EBL	pH	SU	7.3	7.4	1.4	Yes
9/18/2014	H-02	EBL	Copper	mg/l	<0.005	<0.005	♦	♦
9/18/2014	H-02	EBL	Lead	mg/l	<0.002	<0.002	♦	♦
9/18/2014	H-02	EBL	Zinc	mg/l	<0.0100	<0.0100	♦	♦
10/2/2014	D-01	EBL	Aluminum	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01	EBL	Manganese	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01B	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01B	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01B	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01B	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01B	EBL	Zinc	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01C	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01C	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01D	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-01D	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-02	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-02	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-02	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-02	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-02	EBL	Zinc	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Aluminum	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Total Residual Chlorine	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-03	EBL	Zinc	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	EBL	Aluminum	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW

2014 NPDES Duplicate Sample Results

Sample Date	NPDES Site	Laboratory	Parameter	Units	Outfall Value	Duplicate Value	Relative % Difference	Relative Percent Difference (< 20 %)
10/2/2014	D-06	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	SES	Total Petroleum Hydrocarbons	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	EBL	Total Residual Chlorine	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/2/2014	D-06	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/6/2014	H-07	EBL	Total Suspended Solids	mg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10/6/2014	K-18	EBL	pH	SU	6.9	6.8	1.5	Yes
10/6/2014	L-07	EBL	pH	SU	7.1	7.1	0.0	Yes
10/7/2014	K-18	EBL	Total Suspended Solids	mg/L	1.0	1.0	0.0	Yes
10/7/2014	L-07	EBL	Total Suspended Solids	mg/L	1.0	1.0	0.0	Yes
10/8/2014	A-11	SES	Low Level Mercury Blank	ng/L	< 0.5 ¹	< 0.5	◆	◆
11/3/2014	A-11	SES	Low Level Mercury	ng/L	8.04	8.30	3.2	Yes
11/4/2014	M-05	SES	Tetrachloroethylene	µg/L	<2.0	<2.0	◆	◆
11/4/2014	M-05	SES	Trichloroethylene	µg/L	<2.0	<2.0	◆	◆
11/10/2014	H-16	SES	Biochemical Oxygen Demand	mg/L	<2.0	<2.0	◆	◆
11/10/2014	H-16	SES	Total Suspended Solids	mg/L	<1.0	<1.0	◆	◆
11/19/2014	F-08	EBL	Lead	mg/L	<0.002	<0.002	◆	◆
11/19/2014	F-08	EBL	Zinc	mg/L	0.0361	0.0386	6.7	Yes
12/2/2014	H-02	EBL	Copper	mg/L	0.0051	0.0050	2.0	Yes
12/2/2014	H-02	EBL	Lead	mg/L	<0.0020	<0.0020	◆	◆
12/2/2014	H-02	EBL	Zinc	mg/L	<0.0100	<0.0100	◆	◆
12/2/2014	H-12	EBL	Copper	mg/L	<0.0050	<0.0050	◆	◆
12/2/2014	H-12	EBL	Zinc	mg/L	0.0253	0.0251	0.8	Yes
12/4/2014	D-01	EBL	Aluminum	mg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01	EBL	Manganese	mg/L	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01B	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01B	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01B	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01B	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01B	EBL	Zinc	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01C	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01C	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01D	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-01D	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Aluminum	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Total Residual Chlorine	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-03	EBL	Zinc	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	EBL	Aluminum	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	EBL	Copper	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	EBL	Nickel	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	SES	Oil & Grease	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	SES	Total Petroleum Hydrocarbons	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/4/2014	D-06	EBL	Total Residual Chlorine	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW

2014 NPDES Duplicate Sample Results

Sample Date	NPDES Site	Laboratory	Parameter	Units	Outfall Value	Duplicate Value	Relative % Difference	Relative Percent Difference (< 20 %)
12/4/2014	D-06	EBL	Total Suspended Solids	mg/l	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12/1/2014	A-1A	SES	Trichloroethylene	µg/L	<2.0	<2.0	♦	♦
12/1/2014	A-1A	SES	Tetrachloroethylene	µg/L	<2.0	<2.0	♦	♦