

# APPENDIX E

*This page is intentionally left blank*

**TABLE E-1**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 237A Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO3)	85.4	126.0		102.0	39	39	100%							
pH (pH units)	6.8	7.8		7.40	39	39	100%							
TSS (mg/L)	0.26	16.30	3.33	2.20	34	39	87%	0.26	7.56	3.47	1.04	0.56	4.45	2.20
<b>Metals in ug/L</b>														
Lead	0.23	6.11	1.43	0.91	16	38	42%	0.34	3.10	1.35	0.94	0.22	1.88	0.99
Mercury	0.025	0.196	0.031	0.025	3	38	8%	0.025	0.025	0.028	0.911	0.005	0.041	0.022
Zinc	1.6	27.0	9.7	9.4	36	37	97%	5.26	14.06	4.58	0.47	0.75	11.24	8.19
Dissolved Lead	0.08	4.50	0.96	0.68	8	38	21%	0.13	1.90	0.92	0.95	0.15	1.27	0.66
Dissolved Mercury	0.025	0.135	0.029	0.025	2	37	5%	0.025	0.025	0.019	0.645	0.003	0.035	0.023
Dissolved Zinc	2.30	12.2	7.88	7.51	36	37	97%	4.30	11.60	2.84	0.36	0.47	8.82	6.93
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	2.100	0.069	0.005	10	39	26%	0.002	0.021	0.338	4.872	0.054	0.179	-0.040
Acenaphthene	0.002	0.031	0.005	0.005	2	39	5%	0.002	0.005	0.005	0.938	0.001	0.007	0.003
Acenaphthylene	0.002	0.016	0.004	0.005	1	39	3%	0.002	0.005	0.002	0.544	0.000	0.005	0.004
Anthracene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.310	0.000	0.005	0.004
Fluorene	0.002	0.086	0.007	0.005	5	39	13%	0.002	0.005	0.013	1.912	0.002	0.011	0.003
Naphthalene	0.002	3.000	0.097	0.011	22	39	56%	0.005	0.038	0.479	4.946	0.077	0.252	-0.058
Phenanthrene	0.002	0.149	0.012	0.005	15	39	38%	0.004	0.016	0.024	1.992	0.004	0.020	0.004
*Total LPAHs <sup>1</sup>	0.010	3.276	0.130	0.035				0.015	0.078	0.520	4.007			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.022	0.006	0.005	10	39	26%	0.002	0.014	0.005	0.723	0.001	0.008	0.005
Benzo(a)pyrene	0.001	0.020	0.006	0.005	7	39	18%	0.002	0.011	0.004	0.753	0.001	0.007	0.004
Benzo(g,h,i)perylene	0.002	0.022	0.007	0.005	8	39	21%	0.004	0.014	0.005	0.706	0.001	0.008	0.005
Benzo(b,k)fluoranthene	0.002	0.047	0.011	0.005	17	39	44%	0.003	0.028	0.012	1.021	0.002	0.015	0.008
Chrysene	0.002	0.026	0.007	0.005	10	39	26%	0.002	0.016	0.006	0.918	0.001	0.009	0.005
Dibenz(a,h)anthracene	0.003	0.010	0.005	0.005	1	39	3%	0.004	0.005	0.001	0.229	0.000	0.005	0.004
Fluoranthene	0.003	0.046	0.011	0.005	16	39	41%	0.003	0.028	0.011	0.997	0.002	0.015	0.007
Indeno(1,2,3-c,d)pyrene	0.003	0.018	0.006	0.005	6	39	15%	0.004	0.011	0.004	0.616	0.001	0.007	0.005
Pyrene	0.002	0.056	0.014	0.006	23	39	59%	0.003	0.033	0.014	0.981	0.002	0.018	0.009
*Total HPAHs <sup>2</sup>	0.012	0.249	0.071	0.048				0.021	0.172	0.058	0.825			
*Total PAHs <sup>3</sup>	0.023	3.464	0.201	0.094				0.041	0.274	0.543	2.707			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.163	0.022	0.010	5	16	31%	0.005	0.047	0.040	1.801	0.010	0.044	0.001
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.2	1.6	0.6	0.5	12	38	32%	0.5	1.1	0.3	0.5	0.0	0.7	0.5
Butylbenzyl phthalate	0.05	0.5	0.4	0.5	3	39	8%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Diethyl phthalate	0.035	32.0	2.2	0.5	12	39	31%	0.1	1.3	6.3	2.9	1.0	4.2	0.1
Dimethyl phthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.05	0.5	0.4	0.5	6	39	15%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.4	0.3
*Total Phthalates <sup>4</sup>		32.0												

**TABLE E-1 (Cont'd)**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 237A New Water Years 2006-2010**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO3)	95.3	116.0		110.0	21	21	100%							
pH (pH units)	6.5	7.7		7.30	21	21	100%							
TSS (mg/L)	0.26	26.80	3.41	1.80	18	21	86%	0.26	5.41	5.78	1.69	1.26	6.04	0.78
<b>Metals in ug/L</b>														
Lead	0.14	4.60	1.46	1.30	7	18	39%	0.30	3.10	1.21	0.83	0.28	2.06	0.86
Mercury	0.025	0.025	0.025	0.025	0	21	0%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Zinc	3.24	26.60	10.24	9.70	19	19	100%	4.17	16.48	5.63	0.55	1.29	12.95	7.52
Dissolved Lead	0.01	3.20	0.98	0.75	5	18	28%	0.10	2.83	0.99	1.01	0.23	1.47	0.49
Dissolved Mercury	0.025	0.078	0.028	0.025	1	20	5%	0.025	0.025	0.012	0.429	0.003	0.033	0.022
Dissolved Zinc	3.14	31.20	8.87	7.60	19	19	100%	3.93	14.52	6.38	0.72	1.46	11.95	5.80
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.022	0.005	0.005	5	21	24%	0.002	0.005	0.004	0.869	0.001	0.007	0.003
Acenaphthene	0.002	0.005	0.004	0.005	1	21	5%	0.002	0.005	0.002	0.478	0.000	0.004	0.003
Acenaphthylene	0.002	0.005	0.003	0.004	0	21	0%	0.002	0.005	0.002	0.504	0.000	0.004	0.003
Anthracene	0.002	0.005	0.004	0.005	1	21	5%	0.002	0.005	0.001	0.401	0.000	0.004	0.003
Fluorene	0.002	0.005	0.004	0.005	2	21	10%	0.002	0.005	0.002	0.446	0.000	0.004	0.003
Naphthalene	0.002	0.017	0.007	0.005	9	21	43%	0.003	0.014	0.004	0.605	0.001	0.009	0.005
Phenanthrene	0.002	0.031	0.006	0.005	8	21	38%	0.002	0.011	0.006	0.980	0.001	0.009	0.004
*Total LPAHs <sup>1</sup>	0.010	0.065	0.028	0.030				0.011	0.042	0.013	0.479			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.019	0.005	0.005	2	21	10%	0.001	0.005	0.004	0.864	0.001	0.006	0.003
Benzo(a)pyrene	0.002	0.036	0.006	0.005	4	21	19%	0.002	0.009	0.008	1.277	0.002	0.010	0.003
Benzo(g,h,i)perylene	0.003	0.024	0.006	0.005	3	21	14%	0.004	0.008	0.005	0.776	0.001	0.008	0.004
Benzo(b,k)fluoranthene	0.002	0.058	0.009	0.005	7	21	33%	0.002	0.017	0.012	1.343	0.003	0.015	0.004
Chrysene	0.002	0.029	0.005	0.005	4	21	19%	0.002	0.009	0.006	1.124	0.001	0.008	0.003
Dibenz(a,h)anthracene	0.003	0.008	0.005	0.005	1	21	5%	0.004	0.005	0.001	0.243	0.000	0.005	0.004
Fluoranthene	0.002	0.043	0.008	0.005	6	21	29%	0.003	0.019	0.010	1.167	0.002	0.013	0.004
Indeno(1,2,3-c,d)pyrene	0.003	0.035	0.006	0.005	3	21	14%	0.003	0.010	0.007	1.150	0.002	0.010	0.003
Pyrene	0.002	0.163	0.014	0.005	9	21	43%	0.002	0.017	0.034	2.398	0.008	0.030	-0.001
*Total HPAHs <sup>2</sup>	0.022	0.383	0.065	0.045				0.022	0.089	0.079	1.217			
*Total PAHs <sup>3</sup>	0.032	0.448	0.093	0.075				0.033	0.121	0.090	0.966			
<b>Phenols in ug/L</b>														
<b>4-Methylphenol</b>														
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.3	0.7	0.5	0.5	6	21	29%	0.4	0.5	0.1	0.2	0.0	0.5	0.4
Butylbenzyl phthalate	0.045	0.5	0.3	0.2	2	21	10%	0.1	0.5	0.2	0.7	0.0	0.4	0.2
Diethyl phthalate	0.04	1.9	0.4	0.5	4	21	19%	0.1	0.5	0.5	1.1	0.1	0.7	0.2
Dimethyl phthalate	0.016	0.5	0.3	0.1	0	21	0%	0.0	0.5	0.2	1.0	0.1	0.4	0.1
Di-n-butyl phthalate	0.05	0.5	0.3	0.5	5	21	24%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Di-n-octyl phthalate	0.042	1.0	0.3	0.3	0	21	0%	0.0	0.5	0.3	0.9	0.1	0.4	0.2
*Total Phthalates <sup>4</sup>		1.8												

**TABLE E-2**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 237B Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO3)	61.0	129		113.0	39	39								
pH (pH units)	5.9	7.8		7.2	39	39								
TSS (mg/L)	0.26	16.90	2.52	1.28	36	39	92%	0.55	3.86	3.68	1.46	0.59	3.71	1.32
<b>Metals in ug/L</b>														
Lead	0.07	6.60	0.99	0.63	10	38	26%	0.15	1.65	1.23	1.24	0.20	1.40	0.59
Mercury	0.025	0.025	0.025	0.025	5	38	13%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Zinc	1.05	14.20	4.47	3.90	24	39	62%	2.07	6.96	2.47	0.55	0.40	5.27	3.67
Dissolved Lead	0.02	4.00	0.96	0.65	14	38	37%	0.12	1.93	0.95	0.99	0.15	1.28	0.65
Dissolved Mercury	0.025	0.025	0.025	0.025	0	38	0%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Dissolved Zinc	0.60	14.30	4.71	3.79	26	39	67%	1.89	8.59	3.07	0.65	0.49	5.71	3.71
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.019	0.005	0.005	4	39	10%	0.002	0.005	0.003	0.639	0.001	0.006	0.004
Acenaphthene	0.002	0.005	0.004	0.005	2	39	5%	0.002	0.005	0.001	0.324	0.000	0.005	0.004
Acenaphthylene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.358	0.000	0.005	0.004
Anthracene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.310	0.000	0.005	0.004
Fluorene	0.002	0.005	0.004	0.005	0	39	0%	0.002	0.005	0.001	0.356	0.000	0.005	0.004
Naphthalene	0.002	0.025	0.008	0.005	13	39	33%	0.004	0.013	0.005	0.611	0.001	0.009	0.006
Phenanthrene	0.002	0.005	0.004	0.005	3	39	8%	0.002	0.005	0.001	0.291	0.000	0.005	0.004
*Total LPAHs <sup>1</sup>	0.008	0.050	0.028	0.030				0.013	0.037	0.010	0.342			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.045	0.005	0.005	4	39	10%	0.001	0.005	0.007	1.229	0.001	0.008	0.003
Benzo(a)pyrene	0.002	0.041	0.005	0.005	2	39	5%	0.002	0.005	0.006	1.154	0.001	0.007	0.003
Benzo(g,h,i)perylene	0.003	0.044	0.006	0.005	2	39	5%	0.004	0.005	0.006	1.095	0.001	0.008	0.004
Benzo(b,k)fluoranthene	0.002	0.107	0.008	0.005	7	39	18%	0.002	0.011	0.017	2.068	0.003	0.013	0.003
Chrysene	0.002	0.060	0.006	0.005	2	39	5%	0.002	0.005	0.009	1.628	0.001	0.009	0.003
Dibenz(a,h)anthracene	0.003	0.011	0.005	0.005	1	39	3%	0.004	0.005	0.001	0.255	0.000	0.005	0.004
Fluoranthene	0.003	0.088	0.007	0.005	4	39	10%	0.003	0.005	0.014	1.943	0.002	0.011	0.003
Indeno(1,2,3-c,d)pyrene	0.003	0.039	0.005	0.005	1	39	3%	0.004	0.005	0.006	1.041	0.001	0.007	0.004
Pyrene	0.002	0.078	0.008	0.005	11	39	28%	0.003	0.011	0.012	1.577	0.002	0.011	0.004
*Total HPAHs <sup>2</sup>	0.011	0.513	0.054	0.045				0.024	0.056	0.076	1.421			
*Total PAHs <sup>3</sup>	0.020	0.543	0.082	0.075				0.035	0.093	0.079	0.956			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.104	0.012	0.005	2	16	13%	0.005	0.008	0.025	2.148	0.006	0.025	-0.002
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.3	0.8	0.5	0.5	6	38	16%	0.4	0.5	0.1	0.2	0.0	0.5	0.5
Butylbenzyl phthalate	0.05	0.5	0.4	0.5	1	39	3%	0.1	0.5	0.2	0.5	0.0	0.4	0.3
Diethyl phthalate	0.04	17.0	1.1	0.5	9	39	23%	0.1	1.3	2.8	2.6	0.4	2.0	0.2
Dimethyl phthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.05	0.5	0.4	0.5	6	39	15%	0.1	0.5	0.2	0.4	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.4	0.3
*Total Phthalates <sup>4</sup>		17.0												

**TABLE E-3**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 230 Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO <sub>3</sub> )	27.9	249		142.0	38	38	100%							
pH (pH units)	7.1	9.0		7.7	38	38	100%							
TSS (mg/L)	0.90	319.00	16.44	5.95	38	38	100%	1.52	20.21	51.07	3.11	8.28	33.23	-0.34
<b>Metals in ug/L</b>														
Lead	0.99	29.80	5.81	4.36	28	38	74%	1.61	10.31	5.85	1.01	0.95	7.73	3.89
Mercury	0.025	0.083	0.031	0.025	6	38	16%	0.025	0.056	0.015	0.477	0.002	0.036	0.026
Zinc	19.3	101.0	46.0	34.0	37	37	100%	22.70	82.20	24.16	0.52	3.97	54.08	37.97
Dissolved Lead	0.14	5.50	1.72	1.40	16	38	42%	0.46	3.20	1.27	0.74	0.21	2.14	1.30
Dissolved Mercury	0.025	0.059	0.026	0.025	1	38	3%	0.025	0.025	0.006	0.213	0.001	0.028	0.024
Dissolved Zinc	6.4	95.0	28.8	23.7	37	37	100%	10.70	46.52	19.33	0.67	3.18	35.27	22.38
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.122	0.015	0.005	19	38	50%	0.003	0.032	0.023	1.534	0.004	0.022	0.007
Acenaphthene	0.002	0.013	0.005	0.005	5	38	13%	0.002	0.006	0.003	0.506	0.000	0.006	0.004
Acenaphthylene	0.002	0.005	0.004	0.005	0	38	0%	0.002	0.005	0.001	0.341	0.000	0.005	0.004
Anthracene	0.002	0.012	0.004	0.005	1	38	3%	0.002	0.005	0.002	0.400	0.000	0.005	0.004
Fluorene	0.002	0.012	0.005	0.005	5	38	13%	0.003	0.005	0.002	0.358	0.000	0.005	0.004
Naphthalene	0.005	0.228	0.027	0.013	27	38	71%	0.005	0.073	0.042	1.555	0.007	0.040	0.013
Phenanthrene	0.002	0.084	0.014	0.011	25	38	66%	0.005	0.022	0.015	1.118	0.003	0.019	0.009
*Total LPAHs <sup>1</sup>	0.016	0.270	0.059	0.045				0.025	0.111	0.052	0.869			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.066	0.008	0.005	8	38	21%	0.001	0.013	0.011	1.407	0.002	0.011	0.004
Benzo(a)pyrene	0.002	0.057	0.007	0.005	6	38	16%	0.002	0.012	0.009	1.340	0.001	0.010	0.004
Benzo(g,h,i)perylene	0.004	0.036	0.008	0.005	12	38	32%	0.004	0.015	0.007	0.828	0.001	0.010	0.006
Benzo(b,k)fluoranthene	0.002	0.113	0.014	0.008	19	38	50%	0.002	0.025	0.019	1.365	0.003	0.020	0.008
Chrysene	0.002	0.087	0.010	0.005	17	38	45%	0.002	0.018	0.014	1.374	0.002	0.015	0.006
Dibenz(a,h)anthracene	0.003	0.014	0.005	0.005	5	38	13%	0.004	0.007	0.002	0.419	0.000	0.006	0.005
Fluoranthene	0.003	0.133	0.017	0.012	26	38	68%	0.005	0.028	0.022	1.295	0.004	0.025	0.010
Indeno(1,2,3-c,d)pyrene	0.003	0.033	0.006	0.005	4	38	11%	0.004	0.007	0.006	0.908	0.001	0.008	0.004
Pyrene	0.004	0.173	0.022	0.015	35	38	92%	0.005	0.032	0.027	1.266	0.004	0.031	0.013
*Total HPAHs <sup>2</sup>	0.025	0.712	0.097	0.061				0.034	0.146	0.113	1.170			
*Total PAHs <sup>3</sup>	0.041	0.923	0.157	0.135				0.062	0.232	0.144	0.920			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.115	0.024	0.008	1	16	6%	0.005	0.058	0.031	1.276	0.008	0.040	0.008
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.3	33.0	1.6	0.5	14	37	38%	0.4	1.7	5.3	3.3	0.9	3.4	-0.2
Butylbenzyl phthalate	0.09	0.7	0.4	0.5	3	38	8%	0.1	0.5	0.2	0.4	0.0	0.5	0.4
Diethyl phthalate	0.070	8.4	0.7	0.5	8	38	21%	0.2	0.5	1.4	1.9	0.2	1.2	0.3
Dimethyl phthalate	0.016	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.1	0.5	0.4	0.5	6	38	16%	0.1	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	2.0	0.4	0.5	2	38	5%	0.0	0.5	0.3	0.7	0.1	0.5	0.3
*Total Phthalates <sup>4</sup>		33.0												

**TABLE E-4**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 235 Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO <sub>3</sub> )	123.0	199.0		148.0	38	38	100%							
pH (pH units)	7.1	8.0		7.7	38	38	100%							
TSS (mg/L)	1.00	258	27.81	7.37	38	38	100%	1.49	79.03	58.43	2.10	9.48	47.01	8.60
<b>Metals in ug/L</b>														
Lead	1.64	112	15.04	6.85	32	38	84%	3.15	30.38	24.37	1.62	3.95	23.05	7.03
Mercury	0.025	0.380	0.043	0.025	4	37	11%	0.025	0.080	0.062	1.454	0.010	0.064	0.022
Zinc	7.40	355.0	44.67	17.20	35	35	100%	10.48	73.60	80.96	1.81	13.69	72.48	16.85
Dissolved Lead	0.24	6.00	1.64	1.23	16	38	42%	0.54	3.53	1.37	0.83	0.22	2.09	1.19
Dissolved Mercury	0.025	0.025	0.025	0.025	3	36	8%	0.025	0.025	0.000	0.000	0.000	0.025	0.025
Dissolved Zinc	3.80	28.50	10.65	9.60	35	35	100%	6.35	15.60	5.15	0.48	0.87	12.42	8.88
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.040	0.007	0.005	7	38	18%	0.002	0.011	0.007	1.083	0.001	0.009	0.004
Acenaphthene	0.002	0.032	0.011	0.012	28	38	74%	0.005	0.018	0.006	0.569	0.001	0.013	0.009
Acenaphthylene	0.002	0.005	0.004	0.005	0	38	0%	0.002	0.005	0.001	0.341	0.000	0.005	0.004
Anthracene	0.002	0.031	0.006	0.005	5	38	13%	0.002	0.009	0.005	0.872	0.001	0.008	0.004
Fluorene	0.002	0.043	0.008	0.005	14	38	37%	0.002	0.014	0.007	0.939	0.001	0.010	0.005
Naphthalene	0.003	0.056	0.013	0.011	23	38	61%	0.004	0.021	0.012	0.936	0.002	0.017	0.009
Phenanthrene	0.002	0.115	0.015	0.005	15	38	39%	0.002	0.031	0.025	1.608	0.004	0.024	0.007
*Total LPAHs <sup>1</sup>	0.013	0.240	0.058	0.0465				0.022	0.096	0.048	0.829			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.114	0.014	0.005	11	38	29%	0.001	0.022	0.024	1.766	0.004	0.022	0.006
Benzo(a)pyrene	0.002	0.142	0.014	0.005	8	38	21%	0.002	0.023	0.030	2.127	0.005	0.024	0.004
Benzo(g,h,i)perylene	0.002	0.166	0.013	0.005	11	38	29%	0.004	0.027	0.027	2.101	0.004	0.022	0.004
Benzo(b,k)fluoranthene	0.002	0.344	0.029	0.008	21	38	55%	0.004	0.055	0.070	2.402	0.011	0.052	0.006
Chrysene	0.002	0.199	0.020	0.005	11	38	29%	0.002	0.036	0.044	2.234	0.007	0.035	0.005
Dibenz(a,h)anthracene	0.003	0.028	0.006	0.005	4	38	11%	0.004	0.006	0.004	0.716	0.001	0.007	0.004
Fluoranthene	0.003	0.295	0.031	0.012	29	38	76%	0.005	0.054	0.060	1.926	0.010	0.051	0.011
Indeno(1,2,3-c,d)pyrene	0.003	0.115	0.009	0.005	8	38	21%	0.004	0.018	0.018	1.959	0.003	0.015	0.003
Pyrene	0.004	0.253	0.036	0.018	34	38	89%	0.005	0.067	0.057	1.575	0.009	0.055	0.017
*Total HPAHs <sup>2</sup>	0.025	1.639	0.173	0.0705				0.041	0.299	0.320	1.854			
*Total PAHs <sup>3</sup>	0.038	1.845	0.231	0.124				0.062	0.383	0.358	1.554			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.055	0.016	0.005	4	16	25%	0.005	0.045	0.018	1.178	0.005	0.025	0.006
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.4	21.3	2.1	1.2	22	37	59%	0.5	3.3	3.6	1.7	0.6	3.3	0.9
Butylbenzyl phthalate	0.09	1.6	0.4	0.5	5	38	13%	0.1	0.5	0.3	0.6	0.0	0.5	0.3
Diethyl phthalate	0.04	15.0	1.0	0.5	9	38	24%	0.1	1.7	2.4	2.4	0.4	1.8	0.2
Dimethyl phthalate	0.016	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.05	0.5	0.4	0.5	4	38	11%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	3.9	0.5	0.5	1	38	3%	0.0	0.5	0.6	1.2	0.1	0.7	0.3
*Total Phthalates <sup>4</sup>		22.9												

**TABLE E-5**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 243 Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO3)	463	2,310		1,325	38	38	100%							
pH (pH units)	6.6	7.8		7.0	37	37	100%							
TSS (mg/L)	1.5	42.7	14.2	10.8	37	37	100%	3.36	32.88	11.60	0.82	1.91	18.04	10.30
<b>Metals in ug/L</b>														
					15									
Lead	0.39	43.9	7.9	4.5	22	36	61%	1.90	24.00	9.61	1.22	1.60	11.16	4.65
Mercury	0.025	0.065	0.028	0.025	0	38	0%	0.025	0.025	0.010	0.352	0.002	0.031	0.025
Zinc	5.3	73.6	22.4	15.4	34	36	94%	8.84	37.55	16.24	0.73	2.71	27.85	16.86
Dissolved Lead	0.01	35.60	5.78	2.88	18	36	50%	0.10	15.25	8.06	1.40	1.34	8.51	3.05
Dissolved Mercury	0.025	0.193	0.030	0.025	0	38	0%	0.025	0.025	0.027	0.912	0.004	0.039	0.021
Dissolved Zinc	0.13	45.80	12.29	8.90	29	36	81%	4.10	23.55	9.34	0.76	1.56	15.45	9.13
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.006	0.004	0.005	3	38	8%	0.002	0.005	0.001	0.291	0.000	0.005	0.004
Acenaphthene	0.005	0.069	0.031	0.031	37	38	97%	0.012	0.054	0.017	0.533	0.003	0.036	0.026
Acenaphthylene	0.002	0.005	0.004	0.005	4	38	11%	0.002	0.005	0.001	0.302	0.000	0.005	0.004
Anthracene	0.002	0.022	0.007	0.005	11	38	29%	0.003	0.013	0.005	0.697	0.001	0.008	0.005
Fluorene	0.002	0.013	0.005	0.005	11	38	29%	0.003	0.010	0.003	0.501	0.000	0.006	0.004
Naphthalene	0.001	0.017	0.008	0.005	17	38	45%	0.005	0.015	0.004	0.527	0.001	0.009	0.007
Phenanthrene	0.002	0.057	0.011	0.005	19	38	50%	0.004	0.023	0.013	1.197	0.002	0.015	0.007
*Total LPAHs <sup>1</sup>	0.025	0.151	0.066	0.061				0.038	0.103	0.028	0.426			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.055	0.009	0.005	12	38	32%	0.001	0.015	0.010	1.179	0.002	0.012	0.005
Benzo(a)pyrene	0.002	0.042	0.007	0.005	4	38	11%	0.002	0.010	0.008	1.204	0.001	0.009	0.004
Benzo(g,h,i)perylene	0.004	0.046	0.008	0.005	7	38	18%	0.004	0.013	0.009	1.108	0.001	0.011	0.005
Benzo(b,k)fluoranthene	0.002	0.105	0.014	0.005	16	38	42%	0.005	0.025	0.023	1.636	0.004	0.022	0.007
Chrysene	0.002	0.098	0.012	0.005	11	38	29%	0.003	0.028	0.021	1.728	0.003	0.019	0.005
Dibenz(a,h)anthracene	0.003	0.012	0.005	0.005	0	38	0%	0.004	0.005	0.001	0.281	0.000	0.005	0.004
Fluoranthene	0.003	0.133	0.023	0.016	32	38	84%	0.005	0.044	0.025	1.093	0.004	0.031	0.015
Indeno(1,2,3-c,d)pyrene	0.003	0.034	0.006	0.005	3	38	8%	0.004	0.005	0.006	1.022	0.001	0.008	0.004
Pyrene	0.005	0.116	0.032	0.022	37	38	97%	0.014	0.063	0.027	0.846	0.004	0.041	0.023
*Total HPAHs <sup>2</sup>	0.031	0.606	0.115	0.074				0.053	0.199	0.123	1.068			
*Total PAHs <sup>3</sup>	0.055	0.757	0.182	0.133				0.092	0.298	0.143	0.789			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.099	0.014	0.005	6	16	38%	0.005	0.017	0.023	1.695	0.006	0.026	0.001
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.4	16.0	1.1	0.5	9	37	24%	0.5	1.0	2.6	2.4	0.4	2.0	0.2
Butylbenzyl phthalate	0.085	1.8	0.4	0.5	3	38	8%	0.1	0.5	0.3	0.6	0.0	0.5	0.4
Diethyl phthalate	0.05	10.0	0.8	0.5	9	38	24%	0.1	1.1	1.6	2.1	0.3	1.3	0.2
Dimethyl phthalate	0.016	0.5	0.4	0.5	1	38	3%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
Di-n-butyl phthalate	0.05	4.3	0.6	0.5	8	38	21%	0.3	0.5	0.6	1.1	0.1	0.8	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	2	38	5%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
*Total Phthalates <sup>4</sup>		22.9												



**TABLE E-6**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 245 Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO <sub>3</sub> )	136	2,880	909.23	891.00	39	39	100%	382.40	1468.00	524.51	0.58	83.99	1079.26	739.20
pH (pH units)	7.1	8.0		7.3	39	39	100%							
TSS (mg/L)	0.26	78.90	9.89	6.90	38	39	97%	2.16	19.60	13.16	1.33	2.11	14.16	5.63
<b>Metals in ug/L</b>														
Lead	0.14	18.20	4.08	2.58	18	37	49%	0.38	11.94	4.63	1.13	0.76	5.63	2.54
Mercury	0.025	0.125	0.030	0.025	5	38	13%	0.025	0.025	0.020	0.671	0.003	0.036	0.023
Zinc	11.8	1950	180	52	39	39	100%	16.80	235.40	386.46	2.15	61.88	305.28	54.73
Dissolved Lead	0.02	18.90	3.15	1.60	19	37	51%	0.05	6.99	3.97	1.26	0.65	4.47	1.82
Dissolved Mercury	0.025	0.125	0.029	0.025	3	37	8%	0.025	0.025	0.018	0.619	0.003	0.035	0.023
Dissolved Zinc	0.60	1220.00	94.43	24.10	37	39	95%	4.85	113.92	237.53	2.52	38.03	171.42	17.43
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.018	0.006	0.005	9	39	23%	0.002	0.011	0.004	0.636	0.001	0.007	0.005
Acenaphthene	0.002	0.103	0.033	0.026	34	39	87%	0.005	0.068	0.023	0.698	0.004	0.040	0.025
Acenaphthylene	0.002	0.008	0.004	0.005	1	39	3%	0.002	0.005	0.002	0.358	0.000	0.005	0.004
Anthracene	0.002	0.014	0.006	0.005	9	39	23%	0.002	0.011	0.003	0.527	0.000	0.007	0.005
Fluorene	0.002	0.017	0.006	0.005	14	39	36%	0.003	0.012	0.004	0.613	0.001	0.008	0.005
Naphthalene	0.004	0.057	0.011	0.010	22	39	56%	0.005	0.019	0.010	0.842	0.002	0.014	0.008
Phenanthrene	0.002	0.027	0.011	0.008	23	39	59%	0.005	0.022	0.007	0.682	0.001	0.013	0.008
<b>*Total LPAHs<sup>1</sup></b>	<b>0.013</b>	<b>0.181</b>	<b>0.072</b>	<b>0.066</b>				<b>0.030</b>	<b>0.123</b>	<b>0.037</b>	<b>0.522</b>			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	0.021	0.006	0.005	8	39	21%	0.001	0.012	0.004	0.658	0.001	0.008	0.005
Benzo(a)pyrene	0.002	0.048	0.006	0.005	4	39	10%	0.002	0.005	0.007	1.239	0.001	0.008	0.003
Benzo(g,h,i)perylene	0.003	0.033	0.006	0.005	3	39	8%	0.004	0.006	0.005	0.824	0.001	0.008	0.004
Benzo(b,k)fluoranthene	0.002	0.062	0.010	0.005	17	39	44%	0.005	0.015	0.010	1.061	0.002	0.013	0.006
Chrysene	0.002	0.063	0.008	0.005	12	39	31%	0.003	0.017	0.010	1.236	0.002	0.012	0.005
Dibenz(a,h)anthracene	0.003	0.013	0.005	0.005	1	39	3%	0.004	0.005	0.002	0.332	0.000	0.005	0.004
Fluoranthene	0.003	0.046	0.014	0.012	27	39	69%	0.005	0.033	0.011	0.775	0.002	0.018	0.011
Indeno(1,2,3-c,d)pyrene	0.003	0.018	0.005	0.005	3	39	8%	0.004	0.005	0.003	0.526	0.000	0.006	0.004
Pyrene	0.004	0.081	0.025	0.024	37	39	95%	0.010	0.041	0.015	0.594	0.002	0.030	0.020
<b>*Total HPAHs<sup>2</sup></b>	<b>0.029</b>	<b>0.368</b>	<b>0.086</b>	<b>0.074</b>				<b>0.045</b>	<b>0.126</b>	<b>0.056</b>	<b>0.654</b>			
<b>*Total PAHs<sup>3</sup></b>	<b>0.042</b>	<b>0.436</b>	<b>0.157</b>	<b>0.144</b>				<b>0.082</b>	<b>0.237</b>	<b>0.074</b>	<b>0.468</b>			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.093	0.028	0.015	10	16	63%	0.005	0.062	0.028	0.972	0.007	0.043	0.014
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.4	3.3	0.7	0.5	9	38	24%	0.5	1.2	0.6	0.8	0.1	0.9	0.5
Butylbenzyl phthalate	0.09	16.0	1.6	0.5	10	39	26%	0.1	3.3	3.4	2.1	0.5	2.7	0.5
Diethyl phthalate	0.04	4.4	0.7	0.5	11	39	28%	0.1	1.4	1.0	1.3	0.2	1.1	0.4
Dimethyl phthalate	0.016	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.16	1.3	0.5	0.5	10	39	26%	0.3	0.5	0.2	0.4	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	39	0%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
<b>*Total Phthalates<sup>4</sup></b>	<b>0.44</b>	<b>18.7</b>												

**TABLE E-7**  
**SUMMARY STATISTICS FOR BASEFLOW AT**  
**OUTFALL 254 Water Years 2002-2011**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Hardness (mg/L as CaCO <sub>3</sub> )	386	4,410		3,020	38	38	100%							
pH (pH units)	6.7	7.6		7.2	38	38	100%							
TSS (mg/L)	1.8	140.0	17.2	9.2	38	38	100%	3.16	30.80	23.41	1.36	3.80	24.89	9.50
<b>Metals in ug/L</b>														
Lead	0.06	39.00	6.48	3.10	18	37	49%	0.44	16.82	8.73	1.35	1.43	9.39	3.57
Mercury	0.025	0.055	0.026	0.025	0	38	0%	0.025	0.025	0.006	0.236	0.001	0.029	0.024
Zinc	7.24	95.20	28.78	23.90	36	36	100%	11.45	52.35	19.33	0.67	3.22	35.32	22.24
Dissolved Lead	0.01	47.20	8.07	2.65	20	37	54%	0.23	19.14	10.65	1.32	1.75	11.62	4.52
Dissolved Mercury	0.025	0.114	0.028	0.025	1	37	3%	0.025	0.025	0.015	0.537	0.002	0.033	0.023
Dissolved Zinc	0.33	54.70	22.08	19.45	30	36	83%	2.10	45.90	15.82	0.72	2.64	27.43	16.73
<b>PAH in ug/L</b>														
<b>LPAHs</b>														
2-Methylnaphthalene	0.002	0.034	0.006	0.005	8	38	21%	0.003	0.012	0.006	0.942	0.001	0.008	0.004
Acenaphthene	0.002	0.096	0.014	0.005	10	38	26%	0.002	0.039	0.020	1.477	0.003	0.020	0.007
Acenaphthylene	0.002	0.019	0.005	0.005	3	38	8%	0.002	0.005	0.003	0.646	0.001	0.006	0.004
Anthracene	0.002	0.077	0.008	0.005	7	38	18%	0.002	0.016	0.013	1.564	0.002	0.013	0.004
Fluorene	0.002	0.060	0.009	0.005	9	38	24%	0.002	0.025	0.012	1.323	0.002	0.013	0.005
Naphthalene	0.002	0.029	0.008	0.005	10	38	26%	0.004	0.020	0.007	0.856	0.001	0.011	0.006
Phenanthrene	0.002	0.684	0.030	0.007	20	38	53%	0.002	0.033	0.110	3.613	0.018	0.067	-0.006
*Total LPAHs <sup>1</sup>	0.010	0.898	0.075	0.033				0.014	0.143	0.148	1.965			
<b>HPAHs</b>														
Benzo(a)anthracene	0.001	1.110	0.047	0.005	16	38	42%	0.001	0.037	0.183	3.873	0.030	0.107	-0.013
Benzo(a)pyrene	0.002	0.131	0.011	0.005	10	38	26%	0.002	0.020	0.022	1.929	0.004	0.018	0.004
Benzo(g,h,i)perylene	0.003	0.055	0.008	0.005	10	38	26%	0.004	0.014	0.009	1.116	0.002	0.011	0.005
Benzo(b,k)fluoranthene	0.002	0.376	0.029	0.014	23	38	61%	0.002	0.043	0.063	2.169	0.010	0.050	0.008
Chrysene	0.002	0.362	0.023	0.005	16	38	42%	0.002	0.033	0.060	2.636	0.010	0.042	0.003
Dibenz(a,h)anthracene	0.003	0.017	0.005	0.005	3	38	8%	0.004	0.005	0.003	0.507	0.000	0.006	0.004
Fluoranthene	0.003	1.140	0.065	0.019	30	38	79%	0.003	0.093	0.188	2.875	0.030	0.127	0.004
Indeno(1,2,3-c,d)pyrene	0.003	0.053	0.008	0.005	8	38	21%	0.004	0.012	0.009	1.187	0.001	0.010	0.005
Pyrene	0.002	0.879	0.057	0.025	35	38	92%	0.006	0.066	0.144	2.519	0.023	0.104	0.010
*Total HPAHs <sup>2</sup>	0.024	3.287	0.254	0.093				0.029	0.422	0.559	2.204			
*Total PAHs <sup>3</sup>	0.034	4.185	0.329	0.131				0.043	0.547	0.697	2.118			
<b>Phenols in ug/L</b>														
4-Methylphenol	0.005	0.103	0.015	0.005	7	16	44%	0.005	0.017	0.024	1.582	0.006	0.028	0.002
<b>Phthalates in ug/L</b>														
Bis(2-ethylhexyl) phthalate	0.1	2.9	0.6	0.5	8	37	22%	0.5	0.8	0.5	0.8	0.1	0.8	0.5
Butylbenzyl phthalate	0.09	1.4	0.4	0.5	4	38	11%	0.1	0.5	0.2	0.5	0.0	0.5	0.4
Diethyl phthalate	0.04	3.8	0.5	0.5	9	38	24%	0.1	0.5	0.6	1.2	0.1	0.7	0.3
Dimethyl phthalate	0.016	0.5	0.4	0.5	2	38	5%	0.0	0.5	0.2	0.6	0.0	0.4	0.3
Di-n-butyl phthalate	0.05	0.5	0.4	0.5	9	38	24%	0.2	0.5	0.1	0.3	0.0	0.5	0.4
Di-n-octyl phthalate	0.042	0.5	0.4	0.5	0	38	0%	0.0	0.5	0.2	0.5	0.0	0.5	0.3
*Total Phthalates <sup>4</sup>		3.9												

**Table E-8**  
**Summary Statistics for Stormwater at OF230 Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.199	0.044	0.036	48	51	94%	0.021	0.066	0.032	0.72	0.004	0.053	0.035
BOD (mg/L)	1.0	8.8	3.8	3.2	48	53	91%	2.0	7.9	2.1	0.56	0.3	4.4	3.2
Chloride (mg/L)	0.82	551	17.6	4.16	53	54	98%	1.35	17.41	74.4	4.22	10.1	37.9	-2.7
Conductivity (uS/cm)	14.9	2260	117	56.1	135	135	100%	32.0	133	291	2.49	25.0	166	67.4
Hardness (mg CaCO3/L)	8.7	206	20.6	15.9	199	199	100%	11.4	26.3	22.9	1.11	1.6	23.8	17.4
pH (pH units)	5.0	10.6	6.9	7.0	199	199	100%	6.3	7.4	0.6	0.08	0.0	7.0	6.9
TSS (mg/L)	4.8	322	49.0	30.8	193	193	100%	12.9	102	51.8	1.06	3.7	56.4	41.7
Turbidity (NTU)	5.5	85.2	18.4	13.7	7	52	13%	8.0	34.8	16.0	0.87	2.2	22.9	14.0
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.062	0.434	0.148	0.123	68	68	100%	0.081	0.228	0.076	0.52	0.009	0.166	0.129
Phosphate, Ortho (mg/L)	0.042	0.688	0.124	0.084	68	68	100%	0.054	0.251	0.118	0.95	0.014	0.153	0.096
Phosphorus, Total (mg/L)	0.004	0.098	0.028	0.023	74	74	100%	0.013	0.046	0.016	0.58	0.002	0.032	0.024
Total Nitrogen (mg/L)	0.13	2.10	0.54	0.46	68	68	100%	0.26	1.00	0.36	0.67	0.04	0.63	0.45
<b>Metals</b>														
Cadmium (ug/L)	0.007	0.466	0.083	0.064	49	82	60%	0.031	0.166	0.079	0.95	0.009	0.100	0.066
Cadmium, Dissolved (ug/L)	0.005	0.125	0.028	0.025	24	81	30%	0.016	0.046	0.016	0.59	0.002	0.031	0.024
Copper (ug/L)	3.72	66.40	11.25	8.26	82	82	100%	5.12	21.32	10.36	0.92	1.14	13.52	8.97
Copper, Dissolved (ug/L)	0.84	18.10	4.13	3.24	81	81	100%	1.82	7.67	2.95	0.71	0.33	4.78	3.48
Lead (ug/L)	2.09	229	18.31	11.40	199	199	100%	4.44	38.02	22.23	1.21	1.58	21.42	15.20
Lead, Dissolved (ug/L)	0.091	9.05	0.891	0.550	158	198	80%	0.234	1.626	1.189	1.33	0.085	1.058	0.725
Mercury (ug/L)	0.0004	0.1300	0.0223	0.0250	79	199	40%	0.0040	0.0530	0.0246	1.10	0.0017	0.0257	0.0188
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0152	0.0250	26	198	13%	0.0009	0.0250	0.0131	0.86	0.0009	0.0170	0.0133
Zinc (ug/L)	31.8	721	108.4	81.0	199	199	100%	49.7	176.6	87.3	0.81	6.2	120.6	96.2
Zinc, Dissolved (ug/L)	11.5	543	55.2	42.6	198	198	100%	26.5	86.3	54.1	0.98	3.8	62.8	47.6
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	1.700	0.179	0.048	28	44	64%	0.009	0.512	0.302	1.68	0.046	0.271	0.087
Carbaryl (ug/L)	0.03	0.25	0.13	0.08	1	26	4%	0.03	0.25	0.11	0.83	0.02	0.18	0.09
Chlorpyrifos (ug/L)	0.003	1.420	0.039	0.009	2	70	3%	0.003	0.059	0.168	4.29	0.020	0.079	-0.001
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	1	25	4%	0.005	0.005	0.001	0.21	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.002	0.469	0.024	0.013	152	199	76%	0.004	0.038	0.050	2.06	0.004	0.032	0.017
Acenaphthene (ug/L)	0.002	0.080	0.007	0.005	42	199	21%	0.002	0.012	0.010	1.42	0.001	0.008	0.005
Acenaphthylene (ug/L)	0.002	0.060	0.006	0.005	45	199	23%	0.003	0.010	0.006	1.01	0.000	0.006	0.005
Anthracene (ug/L)	0.002	0.122	0.010	0.006	74	199	37%	0.003	0.022	0.015	1.40	0.001	0.012	0.008
Fluorene (ug/L)	0.002	0.246	0.012	0.005	98	199	49%	0.003	0.023	0.021	1.78	0.001	0.014	0.009
Naphthalene (ug/L)	0.003	0.528	0.032	0.020	152	198	77%	0.010	0.050	0.052	1.62	0.004	0.039	0.025
Phenanthrene (ug/L)	0.002	0.653	0.076	0.036	191	199	96%	0.013	0.195	0.103	1.36	0.007	0.091	0.062
<b>Total LPAHs<sup>1</sup></b>	<b>0.008</b>	<b>0.923</b>	<b>0.134</b>	<b>0.075</b>	<b>199</b>	<b>198</b>	<b>101%</b>	<b>0.032</b>	<b>0.297</b>	<b>0.156</b>	<b>1.17</b>	<b>0.011</b>	<b>0.156</b>	<b>0.112</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.439	0.046	0.017	150	199	75%	0.003	0.118	0.070	1.51	0.005	0.056	0.037
Benzo(a)pyrene (ug/L)	0.002	0.563	0.055	0.022	146	199	73%	0.003	0.152	0.084	1.52	0.006	0.067	0.044
Benzo(b,k)fluoranthene (ug/L)	0.002	1.396	0.152	0.053	168	199	84%	0.006	0.416	0.226	1.48	0.016	0.184	0.121
Benzo(g,h,i)perylene (ug/L)	0.002	0.457	0.063	0.028	178	199	89%	0.005	0.156	0.080	1.29	0.006	0.074	0.051
Chrysene (ug/L)	0.002	0.860	0.101	0.032	180	199	90%	0.005	0.271	0.152	1.51	0.011	0.122	0.080
Dibenz(a,h)anthracene (ug/L)	0.002	0.088	0.013	0.005	100	199	50%	0.002	0.034	0.017	1.25	0.001	0.016	0.011
Fluoranthene (ug/L)	0.003	1.687	0.156	0.053	196	199	98%	0.013	0.423	0.244	1.56	0.017	0.190	0.122
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.346	0.048	0.021	158	199	79%	0.003	0.130	0.063	1.32	0.004	0.057	0.039
Pyrene (ug/L)	0.005	1.200	0.146	0.056	193	199	97%	0.016	0.384	0.203	1.40	0.014	0.174	0.117
Retene (ug/L)	0.003	0.026	0.009	0.008	198	24	825%	0.003	0.018	0.006	0.69	0.001	0.012	0.007
<b>Total HPAHs<sup>2</sup></b>	<b>0.025</b>	<b>6.680</b>	<b>0.769</b>	<b>0.260</b>	<b>191</b>	<b>199</b>	<b>96%</b>	<b>0.052</b>	<b>2.195</b>	<b>1.131</b>	<b>1.47</b>	<b>0.080</b>	<b>0.927</b>	<b>0.611</b>
<b>TOTAL PAHs</b>	<b>0.037</b>	<b>7.494</b>	<b>0.906</b>	<b>0.353</b>	<b>198</b>	<b>198</b>	<b>100%</b>	<b>0.089</b>	<b>2.477</b>	<b>1.273</b>	<b>1.40</b>	<b>0.090</b>	<b>1.084</b>	<b>0.728</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.14	44.10	3.23	2.00	179	198	90%	0.84	6.80	4.18	1.30	0.30	3.81	2.64
Butyl benzyl phthalate (ug/L)	0.085	8.400	0.464	0.290	43	199	22%	0.162	0.542	0.842	1.82	0.060	0.581	0.346
Diethyl phthalate (ug/L)	0.077	9.300	0.561	0.268	62	199	31%	0.143	1.002	1.062	1.89	0.075	0.710	0.413
Dimethyl phthalate (ug/L)	0.016	4.700	0.303	0.174	16	199	8%	0.046	0.500	0.471	1.55	0.033	0.369	0.238
Di-n-butyl phthalate (ug/L)	0.050	1.600	0.386	0.414	86	199	43%	0.148	0.512	0.189	0.49	0.013	0.412	0.359
Di-n-Octyl phthalate (ug/L)	0.042	3.200	0.475	0.394	78	197	40%	0.129	1.000	0.488	1.03	0.035	0.544	0.407
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>44.10</b>	<b>4.21</b>	<b>2.66</b>	<b>0</b>	<b>199</b>	<b>0%</b>	<b>0.76</b>	<b>8.84</b>	<b>5.21</b>	<b>1.24</b>	<b>0.37</b>	<b>4.94</b>	<b>3.48</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.010	0.730	0.074	0.050	75	93	81%	0.013	0.159	0.090	1.22	0.009	0.092	0.055
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.13	0.05	0.05	6	51	12%	0.02	0.11	0.03	0.54	0.00	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	18.1	25.0	0	46	0%	2.3	25.0	10.5	0.58	1.6	21.2	15.0
NWTPH-Heavy Oil (mg/L)	0.03	1.90	0.63	0.54	49	51	96%	0.29	1.10	0.36	0.57	0.05	0.73	0.53
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	80	1300000	37092	3500	51	51	100%	790	24000	182070	4.91	25495	88300	-14116
<i>E.coli</i> (CFU/100 ml)	90	33000	11027	11000	7	7	100%	1056	21000	11022	1.00	4166	21221	834
<i>Enterococci</i> (CFU/100 ml)	6200	210000	40543	9300	18	7	257%	7100	99600	75038	1.85	28362	109941	-28856
<b>BTEX</b>														
Benzene (ug/L)	0.1	1.2	0.1	0.1	2	46	4%	0.1	0.1	0.2	1.31	0.0	0.2	0.1
Ethylbenzene (ug/L)	0.1	0.4	0.1	0.1	4	46	9%	0.1	0.1	0.1	0.47	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	1.1	0.2	0.2	4	46	9%	0.2	0.2	0.2	0.68	0.0	0.3	0.2
o-Xylene (ug/L)	0.1	0.5	0.1	0.1	9	46	20%	0.1	0.1	0.1	0.66	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.2	0.2	0.1	52	46	113%	0.1	0.3	0.2	1.24	0.0	0.2	0.1

**Table E-8 (Cont'd)**  
**Summary Statistics for Stormwater at OF230 WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.025	0.061	0.038	0.036	9	9	100%	0.030	0.051	0.011	0.28	0.004	0.047	0.030
BOD (mg/L)	1.0	6.6	3.4	3.3	8	9	89%	2.2	4.6	1.5	0.44	0.5	4.6	2.3
Chloride (mg/L)	1.32	21.30	8.75	9.20	9	9	100%	1.98	13.70	6.14	0.70	2.05	13.47	4.03
Conductivity (uS/cm)	31.8	109.0	65.9	59.1	12	12	100%	40.8	105.4	26.1	0.40	7.5	82.5	49.3
Hardness (mg CaCO3/L)	11.3	29.5	16.5	14.1	12	12	100%	11.6	23.9	5.9	0.36	1.7	20.2	12.7
pH (pH units)	6.5	7.8	7.0	7.0	12	12	100%	6.6	7.4	0.4	0.05	0.1	7.2	6.8
TSS (mg/L)	8.3	97.0	32.7	25.8	12	12	100%	10.2	57.2	25.3	0.77	7.3	48.8	16.7
Turbidity (NTU)	6.8	26.0	14.5	14.6	9	9	100%	7.4	19.8	6.1	0.42	2.0	19.1	9.8
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.098	0.379	0.159	0.123	11	11	100%	0.107	0.218	0.082	0.51	0.025	0.214	0.104
Phosphorus, Total (mg/L)	0.067	0.127	0.097	0.095	11	11	100%	0.077	0.123	0.021	0.22	0.006	0.111	0.083
Phosphate, Ortho (mg/L)	0.012	0.060	0.030	0.029	11	11	100%	0.018	0.043	0.014	0.45	0.004	0.039	0.021
Total Nitrogen (mg/L)	0.33	0.64	0.50	0.49	11	11	100%	0.40	0.64	0.10	0.21	0.03	0.57	0.43
<b>Metals</b>														
Cadmium (ug/L)	0.032	0.176	0.061	0.050	3	12	25%	0.033	0.070	0.038	0.63	0.011	0.085	0.036
Cadmium, Dissolved (ug/L)	0.020	0.125	0.030	0.023	1	12	8%	0.020	0.023	0.030	0.99	0.009	0.049	0.011
Copper (ug/L)	3.84	14.70	8.05	8.35	12	12	100%	4.85	10.92	2.92	0.36	0.84	9.90	6.19
Copper, Dissolved (ug/L)	1.96	7.66	3.62	3.27	12	12	100%	2.34	4.66	1.55	0.43	0.45	4.61	2.63
Lead (ug/L)	2.09	16.50	6.89	6.27	12	12	100%	2.35	9.30	3.95	0.57	1.14	9.39	4.38
Lead, Dissolved (ug/L)	0.208	3.740	0.636	0.333	12	12	100%	0.223	0.602	0.986	1.55	0.285	1.262	0.010
Mercury (ug/L)	0.0040	0.0040	0.0040	0.0040	0	12	0%	0.0040	0.0040	0.0000	0.00	0.0000	0.0040	0.0040
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	12	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	40.0	125.0	64.9	62.6	12	12	100%	43.7	81.2	22.9	0.35	6.6	79.4	50.3
Zinc, Dissolved (ug/L)	28.2	74.5	36.0	32.5	12	12	100%	28.7	40.4	12.6	0.35	3.6	44.0	28.0
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	12	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.469	0.049	0.013	8	12	67%	0.005	0.019	0.132	2.68	0.038	0.133	-0.035
Acenaphthene (ug/L)	0.005	0.011	0.005	0.005	1	12	8%	0.005	0.005	0.002	0.33	0.001	0.007	0.004
Acenaphthylene (ug/L)	0.005	0.012	0.005	0.005	1	12	8%	0.005	0.005	0.002	0.42	0.001	0.007	0.004
Anthracene (ug/L)	0.003	0.010	0.006	0.006	3	12	25%	0.003	0.007	0.002	0.39	0.001	0.007	0.004
Fluorene (ug/L)	0.005	0.012	0.006	0.005	1	12	8%	0.005	0.005	0.002	0.37	0.001	0.007	0.004
Naphthalene (ug/L)	0.013	0.528	0.066	0.017	7	11	64%	0.013	0.038	0.154	2.33	0.046	0.169	-0.037
Phenanthrene (ug/L)	0.004	0.128	0.043	0.035	11	12	92%	0.018	0.066	0.031	0.74	0.009	0.063	0.023
<b>Total LPAHs<sup>1</sup></b>	<b>0.041</b>	<b>0.594</b>	<b>0.131</b>	<b>0.076</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.062</b>	<b>0.162</b>	<b>0.157</b>	<b>1.20</b>	<b>0.047</b>	<b>0.236</b>	<b>0.025</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.029	0.014	0.014	10	12	83%	0.004	0.026	0.008	0.56	0.002	0.019	0.009
Benzo(a)pyrene (ug/L)	0.002	0.041	0.019	0.018	10	12	83%	0.002	0.033	0.013	0.69	0.004	0.027	0.011
Benzo(b,k)fluoranthene (ug/L)	0.016	0.108	0.058	0.053	12	12	100%	0.034	0.085	0.026	0.45	0.007	0.074	0.041
Benzo(g,h,i)perylene (ug/L)	0.009	0.053	0.028	0.029	12	12	100%	0.016	0.041	0.012	0.44	0.004	0.036	0.020
Chrysene (ug/L)	0.009	0.061	0.030	0.027	12	12	100%	0.015	0.058	0.016	0.54	0.005	0.040	0.020
Dibenz(a,h)anthracene (ug/L)	0.003	0.003	0.003	0.003	0	12	0%	0.003	0.003	0.000	0.00	0.000	0.003	0.003
Fluoranthene (ug/L)	0.016	0.141	0.057	0.048	12	12	100%	0.024	0.094	0.035	0.61	0.010	0.079	0.035
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.039	0.019	0.021	9	12	75%	0.003	0.033	0.012	0.64	0.004	0.027	0.011
Pyrene (ug/L)	0.018	0.106	0.061	0.057	12	12	100%	0.026	0.102	0.029	0.47	0.008	0.079	0.043
Retene (ug/L)	0.003	0.026	0.010	0.009	10	12	83%	0.003	0.014	0.006	0.64	0.002	0.014	0.006
<b>Total HPAHs<sup>2</sup></b>	<b>0.083</b>	<b>0.535</b>	<b>0.289</b>	<b>0.276</b>	<b>12</b>	<b>12</b>	<b>100%</b>	<b>0.152</b>	<b>0.444</b>	<b>0.133</b>	<b>0.46</b>	<b>0.039</b>	<b>0.374</b>	<b>0.204</b>
<b>TOTAL PAHs</b>	<b>0.123</b>	<b>0.824</b>	<b>0.413</b>	<b>0.347</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.221</b>	<b>0.657</b>	<b>0.213</b>	<b>0.52</b>	<b>0.064</b>	<b>0.557</b>	<b>0.270</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.87	2.52	1.47	1.36	12	12	100%	0.89	2.36	0.56	0.38	0.16	1.83	1.11
Butyl benzyl phthalate (ug/L)	0.201	0.602	0.237	0.205	1	12	8%	0.201	0.206	0.115	0.48	0.033	0.310	0.164
Diethyl phthalate (ug/L)	0.156	0.667	0.258	0.160	4	12	33%	0.158	0.398	0.165	0.64	0.047	0.363	0.154
Dimethyl phthalate (ug/L)	0.169	0.174	0.172	0.173	0	12	0%	0.169	0.174	0.002	0.01	0.000	0.173	0.171
Di-n-butyl phthalate (ug/L)	0.147	0.558	0.308	0.334	7	12	58%	0.149	0.454	0.152	0.49	0.044	0.405	0.212
Di-n-Octyl phthalate (ug/L)	0.179	0.185	0.183	0.183	0	12	0%	0.180	0.184	0.002	0.01	0.001	0.184	0.181
<b>*Total Phthalates<sup>4</sup></b>	<b>0.98</b>	<b>3.30</b>	<b>1.92</b>	<b>1.85</b>	<b>12</b>	<b>12</b>	<b>100%</b>	<b>1.04</b>	<b>2.75</b>	<b>0.71</b>	<b>0.37</b>	<b>0.20</b>	<b>2.37</b>	<b>1.47</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.012	0.124	0.048	0.035	11	11	100%	0.014	0.069	0.033	0.69	0.010	0.070	0.026
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.35	0.55	0.46	0.47	4	4	100%	0.38	0.53	0.08	0.18	0.04	0.59	0.33
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	17000	33000	24500	24000	4	4	100%	19100	30300	6557	0.27	3279	34934	14066
E.coli (CFU/100 ml)	11000	33000	17500	13000	4	4	100%	11600	27000	10376	0.59	5188	34011	989
Enterococci (CFU/100 ml)	6200	26000	14200	12300	4	4	100%	6920	23000	8904	0.63	4452	28368	32

**Table E-9**  
**Summary Statistics for Stormwater at OF235 Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.665	0.062	0.045	85	91	93%	0.021	0.103	0.077	1.25	0.008	0.078	0.046
BOD (mg/L)	1.0	8.4	3.5	3.2	59	75	79%	1.0	6.7	2.0	0.57	0.2	4.0	3.1
Chloride (mg/L)	0.82	114	10.40	4.44	83	84	99%	2.34	23.78	17.63	1.69	1.92	14.23	6.58
Conductivity (uS/cm)	7.2	1590	128.2	81.8	164	164	100%	51.8	214.2	169.3	1.32	13.2	154.3	102.1
Hardness (mg CaCO3/L)	9.8	63.9	30.0	28.0	230	230	100%	19.4	42.5	9.9	0.33	0.7	31.3	28.7
pH (pH units)	5.4	8.6	7.0	7.1	230	230	100%	6.4	7.5	0.5	0.07	0.0	7.1	7.0
TSS (mg/L)	5.6	441	56.2	39.4	225	225	100%	14.6	110.2	54.3	0.97	3.6	63.3	49.1
Turbidity (NTU)	5.1	79.5	18.9	15.9	61	61	100%	8.1	31.8	11.8	0.62	1.5	21.9	15.8
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.028	1.650	0.334	0.237	110	110	100%	0.163	0.666	0.271	0.81	0.026	0.385	0.283
Phosphorus, Total (mg/L)	0.019	0.532	0.119	0.094	108	108	100%	0.058	0.211	0.090	0.76	0.009	0.137	0.102
Phosphate, Ortho (mg/L)	0.004	0.097	0.027	0.024	110	110	100%	0.013	0.043	0.015	0.56	0.001	0.030	0.024
Total Nitrogen (mg/L)	0.02	3.28	0.77	0.63	107	110	97%	0.36	1.33	0.54	0.70	0.05	0.87	0.67
<b>Metals</b>														
Cadmium (ug/L)	0.007	0.960	0.131	0.087	98	145	68%	0.032	0.267	0.144	1.10	0.012	0.155	0.107
Cadmium, Dissolved (ug/L)	0.005	0.379	0.048	0.025	65	146	45%	0.018	0.101	0.049	1.01	0.004	0.056	0.040
Copper (ug/L)	3.45	162	28.05	22.50	145	145	100%	14.12	44.94	21.14	0.75	1.76	31.52	24.58
Copper, Dissolved (ug/L)	1.79	79.10	11.77	9.64	145	146	99%	5.88	18.85	9.25	0.79	0.77	13.28	10.25
Lead (ug/L)	2.46	368	54.19	41.15	230	230	100%	21.78	98.01	42.60	0.79	2.81	59.73	48.66
Lead, Dissolved (ug/L)	0.156	28.00	6.12	4.500	227	231	98%	2.045	12.400	4.988	0.81	0.328	6.769	5.476
Mercury (ug/L)	0.0004	0.1900	0.0242	0.0250	88	231	38%	0.0040	0.0550	0.0311	1.28	0.0020	0.0283	0.0202
Mercury, Dissolved (ug/L)	0.0000	0.1000	0.0153	0.0250	24	231	10%	0.0009	0.0250	0.0124	0.81	0.0008	0.0169	0.0137
Zinc (ug/L)	34.3	598	110.6	86.5	229	229	100%	46.8	189.2	78.8	0.71	5.2	120.9	100.4
Zinc, Dissolved (ug/L)	9.7	347	42.5	33.4	229	229	100%	22.3	69.0	32.9	0.77	2.2	46.8	38.3
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	12.0	0.590	0.140	52	84	62%	0.032	1.249	1.496	2.54	0.163	0.914	0.265
Carbaryl (ug/L)	0.03	0.25	0.12	0.03	0	33	0%	0.03	0.25	0.11	0.88	0.02	0.16	0.09
Chlorpyrifos (ug/L)	0.003	0.707	0.024	0.009	2	111	2%	0.004	0.058	0.068	2.87	0.006	0.036	0.011
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	2	28	7%	0.005	0.005	0.001	0.28	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.001	4.130	0.034	0.010	154	231	67%	0.003	0.035	0.272	7.98	0.018	0.069	-0.001
Acenaphthene (ug/L)	0.002	0.086	0.009	0.005	85	231	37%	0.002	0.019	0.010	1.19	0.001	0.010	0.007
Acenaphthylene (ug/L)	0.001	0.060	0.006	0.005	62	231	27%	0.002	0.013	0.007	1.04	0.000	0.007	0.005
Anthracene (ug/L)	0.002	0.138	0.014	0.006	117	231	51%	0.003	0.030	0.017	1.25	0.001	0.016	0.011
Fluorene (ug/L)	0.001	0.083	0.011	0.005	109	231	47%	0.003	0.025	0.014	1.22	0.001	0.013	0.009
Naphthalene (ug/L)	0.000	4.430	0.043	0.015	151	228	66%	0.005	0.053	0.293	6.83	0.019	0.081	0.005
Phenanthrene (ug/L)	0.002	0.776	0.071	0.028	209	231	90%	0.009	0.187	0.104	1.46	0.007	0.085	0.058
<b>Total LPAHs<sup>1</sup></b>	<b>0.009</b>	<b>4.930</b>	<b>0.148</b>	<b>0.066</b>	<b>231</b>	<b>230</b>	<b>100%</b>	<b>0.024</b>	<b>0.315</b>	<b>0.353</b>	<b>2.38</b>	<b>0.023</b>	<b>0.194</b>	<b>0.102</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.555	0.043	0.018	191	231	83%	0.003	0.121	0.066	1.54	0.004	0.051	0.034
Benzo(a)pyrene (ug/L)	0.001	0.498	0.045	0.020	180	231	78%	0.004	0.122	0.067	1.49	0.004	0.054	0.036
Benzo(b,k)fluoranthene (ug/L)	0.002	1.199	0.113	0.053	205	231	89%	0.008	0.330	0.159	1.40	0.010	0.134	0.092
Benzo(g,h,i)perylene (ug/L)	0.002	0.410	0.052	0.027	209	231	90%	0.006	0.142	0.063	1.21	0.004	0.061	0.044
Chrysene (ug/L)	0.002	0.678	0.085	0.034	219	231	95%	0.009	0.240	0.117	1.37	0.008	0.101	0.070
Dibenz(a,h)anthracene (ug/L)	0.002	0.154	0.010	0.004	99	231	43%	0.002	0.027	0.015	1.46	0.001	0.012	0.008
Fluoranthene (ug/L)	0.002	1.550	0.143	0.054	228	231	99%	0.024	0.391	0.197	1.38	0.013	0.169	0.117
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.338	0.035	0.019	187	231	81%	0.003	0.096	0.046	1.30	0.003	0.041	0.029
Pyrene (ug/L)	0.002	1.164	0.146	0.066	229	231	99%	0.026	0.382	0.184	1.26	0.012	0.169	0.122
Retene (ug/L)	0.003	0.115	0.014	0.009	23	26	88%	0.005	0.018	0.021	1.48	0.004	0.023	0.006
<b>Total HPAHs<sup>2</sup></b>	<b>0.027</b>	<b>6.497</b>	<b>0.666</b>	<b>0.291</b>	<b>230</b>	<b>230</b>	<b>100%</b>	<b>0.088</b>	<b>1.858</b>	<b>0.905</b>	<b>1.36</b>	<b>0.060</b>	<b>0.783</b>	<b>0.548</b>
<b>TOTAL PAHs</b>	<b>0.045</b>	<b>7.552</b>	<b>0.814</b>	<b>0.355</b>	<b>198</b>	<b>230</b>	<b>86%</b>	<b>0.117</b>	<b>2.276</b>	<b>1.120</b>	<b>1.38</b>	<b>0.074</b>	<b>0.959</b>	<b>0.668</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.32	97.0	4.03	1.99	219	230	95%	0.83	8.43	7.42	1.84	0.49	5.00	3.07
Butyl benzyl phthalate (ug/L)	0.085	7.93	0.919	0.500	128	231	55%	0.169	1.940	1.199	1.30	0.079	1.074	0.764
Diethyl phthalate (ug/L)	0.077	590	3.016	0.273	84	231	36%	0.142	0.800	38.795	12.86	2.553	8.045	-2.013
Dimethyl phthalate (ug/L)	0.016	2.4	0.257	0.174	17	229	7%	0.046	0.500	0.253	0.99	0.017	0.290	0.224
Di-n-butyl phthalate (ug/L)	0.050	1.6	0.344	0.331	87	231	38%	0.144	0.500	0.189	0.55	0.012	0.368	0.319
Di-n-Octyl phthalate (ug/L)	0.042	3.2	0.429	0.219	63	230	27%	0.042	1.019	0.507	1.18	0.033	0.495	0.363
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>596.40</b>	<b>7.90</b>	<b>2.97</b>	<b>226</b>	<b>231</b>	<b>98%</b>	<b>0.89</b>	<b>11.90</b>	<b>39.86</b>	<b>5.05</b>	<b>2.62</b>	<b>13.06</b>	<b>2.73</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	3.390	0.092	0.034	81	134	60%	0.010	0.145	0.311	3.38	0.027	0.145	0.039
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.31	0.05	0.05	6	73	8%	0.02	0.10	0.04	0.79	0.00	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	50.0	18.3	25.0	13	67	19%	2.3	25.0	11.5	0.63	1.4	21.1	15.5
NWTPH-Heavy Oil (mg/L)	0.03	1.70	0.61	0.54	67	73	92%	0.20	1.18	0.38	0.62	0.04	0.70	0.52
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	80	160000	11190	3500	68	68	100%	703	16000	22888	2.05	2776	16730	5650
E.coli (CFU/100 ml)	1300	7900	4480	4900	5	5	100%	2100	6740	2431	0.54	1087	7499	1461
Enterococci (CFU/100 ml)	3700	350000	78500	21500	6	6	100%	4000	210000	135221	1.72	55204	220406	-63406
<b>BTEX</b>														
Benzene (ug/L)	0.1	1.2	0.3	0.1	17	46	37%	0.1	0.7	0.3	1.08	0.0	0.3	0.2
Ethylbenzene (ug/L)	0.1	0.4	0.1	0.1	7	46	15%	0.1	0.2	0.1	0.62	0.0	0.2	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.2	0.2	4	46	9%	0.2	0.2	0.1	0.40	0.0	0.3	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	46	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.2	0.2	0.1	13	46	28%	0.1	0.3	0.2	1.10	0.0	0.2	0.1

**Table E-9 (Cont'd)**  
**Summary Statistics for Stormwater at OF235 WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.023	0.073	0.044	0.045	8	8	100%	0.026	0.059	0.016	0.38	0.006	0.057	0.030
BOD (mg/L)	1.0	4.9	3.1	3.2	8	9	89%	2.2	4.3	1.1	0.35	0.4	3.9	2.2
Chloride (mg/L)	1.27	13.50	5.18	4.45	8	8	100%	2.15	8.49	3.82	0.74	1.35	8.38	1.99
Conductivity (uS/cm)	49.4	157.0	87.3	84.6	12	12	100%	51.7	132.3	34.2	0.39	9.9	109.0	65.5
Hardness (mg CaCO3/L)	14.6	43.2	24.3	21.2	12	12	100%	16.9	33.2	8.5	0.35	2.4	29.7	19.0
pH (pH units)	6.7	7.9	7.2	7.3	12	12	100%	6.8	7.5	0.3	0.04	0.1	7.4	7.0
TSS (mg/L)	8.4	36.8	22.4	21.7	12	12	100%	12.0	33.1	8.6	0.39	2.5	27.9	16.9
Turbidity (NTU)	7.1	33.5	16.1	14.9	8	8	100%	7.3	23.7	8.3	0.52	2.9	23.0	9.2
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.177	0.319	0.220	0.205	10	10	100%	0.177	0.286	0.048	0.22	0.015	0.254	0.186
Phosphorus, Total (mg/L)	0.061	0.148	0.100	0.095	10	10	100%	0.066	0.135	0.028	0.28	0.009	0.120	0.080
Phosphate, Ortho (mg/L)	0.021	0.078	0.037	0.036	10	10	100%	0.021	0.050	0.017	0.46	0.005	0.049	0.025
Total Nitrogen (mg/L)	0.42	0.65	0.54	0.56	10	10	100%	0.42	0.65	0.09	0.16	0.03	0.60	0.48
<b>Metals</b>														
Cadmium (ug/L)	0.050	0.173	0.114	0.101	10	11	91%	0.071	0.167	0.041	0.36	0.012	0.141	0.086
Cadmium, Dissolved (ug/L)	0.020	0.111	0.050	0.041	6	11	55%	0.020	0.096	0.032	0.64	0.010	0.071	0.028
Copper (ug/L)	4.11	25.20	17.20	18.20	12	12	100%	13.76	21.23	5.24	0.30	1.51	20.53	13.87
Copper, Dissolved (ug/L)	2.00	11.70	7.93	9.00	12	12	100%	3.07	10.75	3.14	0.40	0.91	9.93	5.94
Lead (ug/L)	2.46	32.70	22.87	24.25	12	12	100%	18.79	28.73	7.53	0.33	2.17	27.65	18.09
Lead, Dissolved (ug/L)	0.412	11.100	4.174	3.745	12	12	100%	1.404	5.647	2.757	0.66	0.796	5.926	2.423
Mercury (ug/L)	0.0040	0.0040	0.0040	0.0040	0	12	0%	0.0040	0.0040	0.0000	0.00	0.0000	0.0040	0.0040
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	12	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	43.8	93.0	58.0	55.6	12	12	100%	44.7	65.0	13.1	0.23	3.8	66.3	49.6
Zinc, Dissolved (ug/L)	9.7	33.4	25.3	25.6	12	12	100%	22.0	32.4	6.1	0.24	1.8	29.2	21.4
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	12	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.037	0.018	0.017	8	12	67%	0.005	0.034	0.012	0.67	0.003	0.026	0.010
Acenaphthene (ug/L)	0.005	0.005	0.005	0.005	0	12	0%	0.005	0.005	0.000	0.04	0.000	0.005	0.005
Acenaphthylene (ug/L)	0.005	0.023	0.006	0.005	1	12	8%	0.005	0.005	0.005	0.88	0.002	0.009	0.003
Anthracene (ug/L)	0.003	0.026	0.008	0.006	3	12	25%	0.003	0.021	0.008	0.97	0.002	0.013	0.003
Fluorene (ug/L)	0.005	0.005	0.005	0.005	0	12	0%	0.005	0.005	0.000	0.05	0.000	0.005	0.005
Naphthalene (ug/L)	0.008	0.047	0.021	0.013	5	11	45%	0.008	0.036	0.013	0.60	0.004	0.030	0.013
Phenanthrene (ug/L)	0.009	0.036	0.025	0.024	11	12	92%	0.017	0.036	0.008	0.32	0.002	0.030	0.020
<b>Total LPAHs'</b>	<b>0.042</b>	<b>0.095</b>	<b>0.070</b>	<b>0.066</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.045</b>	<b>0.093</b>	<b>0.019</b>	<b>0.27</b>	<b>0.006</b>	<b>0.082</b>	<b>0.057</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.037	0.015	0.016	10	12	83%	0.003	0.024	0.010	0.62	0.003	0.021	0.009
Benzo(a)pyrene (ug/L)	0.002	0.030	0.015	0.019	9	12	75%	0.002	0.023	0.010	0.65	0.003	0.021	0.009
Benzo(b,k)fluoranthene (ug/L)	0.024	0.079	0.048	0.046	12	12	100%	0.032	0.064	0.016	0.32	0.004	0.058	0.038
Benzo(g,h,i)perylene (ug/L)	0.015	0.038	0.024	0.023	12	12	100%	0.017	0.034	0.007	0.29	0.002	0.029	0.020
Chrysene (ug/L)	0.015	0.052	0.027	0.025	12	12	100%	0.016	0.038	0.012	0.43	0.003	0.035	0.020
Dibenz(a,h)anthracene (ug/L)	0.003	0.003	0.003	0.003	0	12	0%	0.003	0.003	0.000	0.00	0.000	0.003	0.003
Fluoranthene (ug/L)	0.024	0.074	0.044	0.042	12	12	100%	0.028	0.061	0.014	0.33	0.004	0.053	0.035
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.022	0.016	0.018	11	12	92%	0.011	0.021	0.005	0.33	0.002	0.020	0.013
Pyrene (ug/L)	0.030	0.096	0.061	0.055	12	12	100%	0.033	0.087	0.021	0.35	0.006	0.074	0.047
Retene (ug/L)	0.003	0.115	0.019	0.011	11	12	92%	0.007	0.017	0.030	1.57	0.009	0.039	0.000
<b>Total HPAHs<sup>2</sup></b>	<b>0.133</b>	<b>0.406</b>	<b>0.254</b>	<b>0.260</b>	<b>12</b>	<b>12</b>	<b>100%</b>	<b>0.154</b>	<b>0.340</b>	<b>0.082</b>	<b>0.32</b>	<b>0.024</b>	<b>0.306</b>	<b>0.202</b>
<b>TOTAL PAHs</b>	<b>0.178</b>	<b>0.486</b>	<b>0.328</b>	<b>0.364</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.216</b>	<b>0.425</b>	<b>0.095</b>	<b>0.29</b>	<b>0.029</b>	<b>0.392</b>	<b>0.264</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.78	2.93	1.36	1.33	12	12	100%	0.84	1.61	0.57	0.42	0.16	1.72	0.99
Butyl benzyl phthalate (ug/L)	0.204	1.910	0.729	0.542	8	12	67%	0.204	1.675	0.592	0.81	0.171	1.105	0.353
Diethyl phthalate (ug/L)	0.158	0.549	0.311	0.351	7	12	58%	0.159	0.495	0.147	0.47	0.042	0.404	0.218
Dimethyl phthalate (ug/L)	0.168	0.175	0.172	0.172	0	12	0%	0.168	0.174	0.002	0.01	0.001	0.173	0.170
Di-n-butyl phthalate (ug/L)	0.148	0.559	0.334	0.347	7	12	58%	0.149	0.525	0.175	0.52	0.051	0.445	0.223
Di-n-Octyl phthalate (ug/L)	0.178	0.185	0.182	0.182	0	12	0%	0.178	0.184	0.002	0.01	0.001	0.183	0.180
<b>*Total Phthalates<sup>4</sup></b>	<b>0.83</b>	<b>4.99</b>	<b>2.53</b>	<b>2.12</b>	<b>12</b>	<b>12</b>	<b>100%</b>	<b>1.12</b>	<b>4.50</b>	<b>1.38</b>	<b>0.55</b>	<b>0.40</b>	<b>3.41</b>	<b>1.65</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.320	0.067	0.034	10	11	91%	0.012	0.116	0.090	1.34	0.027	0.127	0.007
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.33	0.52	0.44	0.46	4	4	100%	0.36	0.51	0.08	0.19	0.04	0.57	0.31
<b>Bacteria</b>														
Coiform, Fecal (CFU/100 ml)	3300	24000	11733	7900	3	3	100%	4220	20780	10869	0.93	6275	38734	-15268
E.coli (CFU/100 ml)	3300	7900	5367	4900	3	3	100%	3620	7300	2335	0.44	1348	11168	-434
Enterococci (CFU/100 ml)	3700	350000	119333	4300	3	3	100%	3820	280860	199763	1.67	115333	615573	-376907

**Table E-10**  
**Summary Statistics for Stormwater at OF237A New Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.096	0.042	0.039	57	60	95%	0.023	0.070	0.020	0.47	0.003	0.048	0.037
BOD (mg/L)	1.0	7.0	3.0	2.8	45	56	80%	1.0	5.2	1.6	0.52	0.2	3.4	2.6
Chloride (mg/L)	1.79	154	12.66	7.04	58	60	97%	3.56	21.83	20.41	1.61	2.64	17.93	7.39
Conductivity (uS/cm)	7.5	1190	114	88.4	135	135	100%	54.2	160.6	120.5	1.06	10.4	134.3	93.3
Hardness (mg CaCO3/L)	14.5	68.8	30.1	28.3	198	198	100%	20.5	41.3	9.7	0.32	0.7	31.5	28.8
pH (pH units)	5.3	8.3	6.9	6.9	197	197	100%	6.3	7.4	0.5	0.07	0.0	6.9	6.8
TSS (mg/L)	3.5	668	49.1	33.9	197	197	100%	16.3	86.3	62.7	1.28	4.5	57.9	40.3
Turbidity (NTU)	6.1	57.1	19.7	17.9	61	61	100%	11.7	32.4	9.7	0.49	1.2	22.1	17.2
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.161	1.090	0.407	0.374	72	72	100%	0.229	0.639	0.173	0.43	0.020	0.447	0.366
Phosphorus, Total (mg/L)	0.041	1.150	0.110	0.085	72	72	100%	0.055	0.151	0.134	1.22	0.016	0.141	0.079
Phosphate, Ortho (mg/L)	0.009	0.054	0.023	0.021	72	72	100%	0.012	0.039	0.010	0.46	0.001	0.025	0.020
Total Nitrogen (mg/L)	0.36	2.03	0.69	0.61	72	72	100%	0.42	0.99	0.28	0.41	0.03	0.76	0.62
<b>Metals</b>														
Cadmium (ug/L)	0.007	0.615	0.077	0.061	45	79	57%	0.030	0.119	0.082	1.07	0.009	0.095	0.058
Cadmium, Dissolved (ug/L)	0.005	0.073	0.023	0.021	13	79	16%	0.008	0.028	0.011	0.49	0.001	0.025	0.020
Copper (ug/L)	4.43	69.10	10.23	7.87	79	79	100%	5.49	13.74	9.03	0.88	1.02	12.25	8.21
Copper, Dissolved (ug/L)	1.51	12.10	3.31	2.76	79	79	100%	1.94	4.56	1.75	0.53	0.20	3.70	2.92
Lead (ug/L)	1.40	80.60	11.55	8.21	197	198	99%	3.86	24.22	10.83	0.94	0.77	13.07	10.03
Lead, Dissolved (ug/L)	0.081	3.460	0.535	0.364	142	198	72%	0.173	1.215	0.506	0.95	0.036	0.606	0.464
Mercury (ug/L)	0.0004	0.100	0.0175	0.0250	65	198	33%	0.0040	0.0250	0.0146	0.84	0.0010	0.0196	0.0155
Mercury, Dissolved (ug/L)	0.0009	0.100	0.0154	0.0250	23	197	12%	0.0009	0.0250	0.0132	0.86	0.0009	0.0172	0.0135
Zinc (ug/L)	30.6	361.0	91.8	72.8	198	198	100%	44.4	158.6	58.1	0.63	4.1	99.9	83.6
Zinc, Dissolved (ug/L)	16.9	289.0	46.5	35.3	198	198	100%	22.4	77.5	36.5	0.79	2.6	51.6	41.4
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	2.500	0.299	0.135	42	50	84%	0.037	0.676	0.449	1.50	0.063	0.426	0.171
Carbaryl (ug/L)	0.03	0.25	0.14	0.13	0	31	0%	0.03	0.25	0.11	0.75	0.02	0.18	0.10
Chlorpyrifos (ug/L)	0.003	0.365	0.025	0.009	2	71	3%	0.003	0.059	0.045	1.78	0.005	0.036	0.015
Bifenthrin (ug/L)	0.000	0.054	0.009	0.005	6	20	30%	0.005	0.019	0.012	1.24	0.003	0.015	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.001	0.104	0.015	0.011	133	197	68%	0.003	0.030	0.015	1.02	0.001	0.017	0.013
Acenaphthene (ug/L)	0.002	0.532	0.010	0.005	42	197	21%	0.002	0.013	0.039	4.09	0.003	0.015	0.004
Acenaphthylene (ug/L)	0.001	0.061	0.005	0.005	37	197	19%	0.002	0.010	0.006	1.04	0.000	0.006	0.005
Anthracene (ug/L)	0.002	0.207	0.011	0.005	77	197	39%	0.003	0.022	0.019	1.74	0.001	0.014	0.008
Fluorene (ug/L)	0.001	0.110	0.010	0.005	90	197	46%	0.003	0.023	0.011	1.17	0.001	0.011	0.008
Naphthalene (ug/L)	0.002	0.150	0.023	0.018	135	196	69%	0.005	0.048	0.021	0.89	0.001	0.026	0.020
Phenanthrene (ug/L)	0.002	0.893	0.082	0.037	185	197	94%	0.010	0.195	0.127	1.55	0.009	0.100	0.064
<b>Total LPAHs<sup>1</sup></b>	<b>0.003</b>	<b>1.087</b>	<b>0.134</b>	<b>0.075</b>	<b>196</b>	<b>196</b>	<b>100%</b>	<b>0.023</b>	<b>0.296</b>	<b>0.173</b>	<b>1.28</b>	<b>0.012</b>	<b>0.159</b>	<b>0.110</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.902	0.063	0.022	166	197	84%	0.003	0.146	0.117	1.86	0.008	0.079	0.047
Benzo(a)pyrene (ug/L)	0.001	0.865	0.071	0.029	155	197	79%	0.004	0.172	0.115	1.62	0.008	0.087	0.055
Benzo(b,k)fluoranthene (ug/L)	0.005	2.430	0.217	0.088	180	197	91%	0.012	0.483	0.341	1.57	0.024	0.265	0.169
Benzo(g,h,i)perylene (ug/L)	0.002	0.794	0.080	0.039	182	197	92%	0.007	0.190	0.107	1.34	0.008	0.094	0.065
Chrysene (ug/L)	0.002	1.490	0.133	0.052	187	197	95%	0.010	0.344	0.199	1.50	0.014	0.161	0.105
Dibenz(a,h)anthracene (ug/L)	0.002	0.305	0.018	0.005	101	197	51%	0.002	0.041	0.032	1.78	0.002	0.023	0.014
Fluoranthene (ug/L)	0.003	2.640	0.217	0.080	196	197	99%	0.019	0.561	0.363	1.67	0.026	0.268	0.166
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.680	0.069	0.032	172	197	87%	0.004	0.175	0.100	1.45	0.007	0.083	0.055
Pyrene (ug/L)	0.005	2.930	0.199	0.085	195	197	99%	0.021	0.493	0.327	1.64	0.023	0.245	0.153
Retene (ug/L)	0.003	0.222	0.026	0.012	17	19	89%	0.005	0.036	0.049	1.89	0.011	0.049	0.002
<b>Total HPAHs<sup>2</sup></b>	<b>0.029</b>	<b>12.263</b>	<b>1.050</b>	<b>0.400</b>	<b>197</b>	<b>197</b>	<b>100%</b>	<b>0.078</b>	<b>2.523</b>	<b>1.656</b>	<b>1.58</b>	<b>0.118</b>	<b>1.283</b>	<b>0.817</b>
<b>TOTAL PAHs</b>	<b>0.033</b>	<b>13.295</b>	<b>1.188</b>	<b>0.507</b>	<b>196</b>	<b>196</b>	<b>100%</b>	<b>0.109</b>	<b>2.827</b>	<b>1.815</b>	<b>1.53</b>	<b>0.130</b>	<b>1.444</b>	<b>0.932</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.20	13.70	2.00	1.40	160	196	82%	0.50	4.40	1.81	0.90	0.13	2.26	1.75
Butyl benzyl phthalate (ug/L)	0.085	2.920	0.384	0.290	38	197	19%	0.144	0.500	0.343	0.89	0.024	0.432	0.336
Diethyl phthalate (ug/L)	0.079	230	1.917	0.244	65	197	33%	0.130	1.100	16.521	8.62	1.177	4.238	-0.404
Dimethyl phthalate (ug/L)	0.016	0.500	0.245	0.172	11	196	6%	0.040	0.500	0.178	0.73	0.013	0.270	0.220
Di-n-butyl phthalate (ug/L)	0.095	4.800	0.390	0.400	78	197	40%	0.145	0.517	0.362	0.93	0.026	0.441	0.339
Di-n-Octyl phthalate (ug/L)	0.042	2.500	0.345	0.250	48	195	25%	0.106	0.501	0.290	0.84	0.021	0.386	0.304
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>230</b>	<b>4.00</b>	<b>1.86</b>	<b>174</b>	<b>197</b>	<b>88%</b>	<b>0.00</b>	<b>5.94</b>	<b>16.58</b>	<b>4.14</b>	<b>1.18</b>	<b>6.33</b>	<b>1.67</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.010	1.080	0.070	0.046	63	89	71%	0.012	0.114	0.119	1.70	0.013	0.095	0.045
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.32	0.05	0.05	3	52	6%	0.02	0.05	0.04	0.88	0.01	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	18.1	25.0	0	46	0%	2.3	25.0	10.5	0.58	1.6	21.2	15.0
NWTPH-Heavy Oil (mg/L)	0.03	2.10	0.58	0.57	47	52	90%	0.24	0.89	0.34	0.58	0.05	0.67	0.49
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	230	80000	5623	2200	51	51	100%	500	14000	11762	2.09	1647	8932	2315
E.coli (CFU/100 ml)	1100	14000	4214	2800	7	7	100%	1280	8540	4491	1.07	1697	8367	61
Enterococci (CFU/100 ml)	3400	110000	20714	4500	7	7	100%	3760	49700	39451	1.90	14911	57201	-15772
<b>BTEX</b>														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	46	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	46	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	46	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	46	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.8	0.1	0.1	4	46	9%	0.1	0.1	0.1	0.87	0.0	0.2	0.1

**Table E-10 (Cont'd)**  
**Summary Statistics for Stormwater at OF237A WY2021**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.023	0.077	0.045	0.049	7	7	100%	0.025	0.062	0.018	0.40	0.007	0.062	0.029
BOD (mg/L)	2.5	4.4	3.4	3.2	7	7	100%	2.9	4.2	0.6	0.19	0.2	4.0	2.8
Chloride (mg/L)	4.35	21.80	12.54	13.80	7	7	100%	5.81	19.88	6.41	0.51	2.42	18.47	6.62
Conductivity (uS/cm)	63.0	177.0	110.6	98.8	8	8	100%	70.2	162.3	39.4	0.36	13.9	143.6	77.6
Hardness (mg CaCO3/L)	21.5	54.5	31.2	27.1	8	8	100%	21.8	45.3	11.8	0.38	4.2	41.1	21.3
pH (pH units)	7.0	7.4	7.1	7.1	8	8	100%	7.0	7.3	0.2	0.02	0.1	7.3	7.0
TSS (mg/L)	11.7	74.1	31.2	32.5	8	8	100%	12.7	46.5	19.9	0.64	7.0	47.9	14.6
Turbidity (NTU)	6.1	32.4	17.7	15.2	7	7	100%	9.0	28.6	9.0	0.51	3.4	26.0	9.4
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.236	0.763	0.425	0.414	8	8	100%	0.244	0.618	0.174	0.41	0.062	0.570	0.279
Phosphorus, Total (mg/L)	0.045	0.137	0.080	0.081	8	8	100%	0.053	0.107	0.028	0.36	0.010	0.104	0.056
Phosphate, Ortho (mg/L)	0.009	0.024	0.015	0.015	8	8	100%	0.009	0.020	0.005	0.33	0.002	0.019	0.011
Total Nitrogen (mg/L)	0.40	1.18	0.72	0.70	8	8	100%	0.41	0.98	0.26	0.36	0.09	0.93	0.50
<b>Metals</b>														
Cadmium (ug/L)	0.032	0.100	0.055	0.050	2	8	25%	0.032	0.083	0.023	0.42	0.008	0.074	0.036
Cadmium, Dissolved (ug/L)	0.020	0.023	0.022	0.023	0	8	0%	0.020	0.023	0.001	0.06	0.000	0.023	0.020
Copper (ug/L)	5.15	10.60	6.98	6.65	8	8	100%	5.23	8.84	1.96	0.28	0.69	8.62	5.35
Copper, Dissolved (ug/L)	2.09	3.63	2.71	2.57	8	8	100%	2.17	3.27	0.51	0.19	0.18	3.14	2.28
Lead (ug/L)	1.65	10.10	4.82	4.10	8	8	100%	2.31	7.48	2.61	0.54	0.92	7.00	2.64
Lead, Dissolved (ug/L)	0.155	0.394	0.216	0.197	8	8	100%	0.161	0.273	0.076	0.35	0.027	0.279	0.153
Mercury (ug/L)	0.0040	0.0110	0.0049	0.0040	1	8	13%	0.0040	0.0061	0.0025	0.51	0.0009	0.0069	0.0028
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	8	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	33.4	69.7	48.8	46.3	8	8	100%	38.4	61.5	11.0	0.23	3.9	58.1	39.6
Zinc, Dissolved (ug/L)	20.5	29.6	24.4	23.6	8	8	100%	21.8	28.6	3.1	0.13	1.1	27.0	21.9
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.054	0.013	0.005	2	8	25%	0.005	0.030	0.017	1.35	0.006	0.027	-0.002
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.018	0.011	0.013	5	8	63%	0.005	0.017	0.006	0.50	0.002	0.016	0.007
Acenaphthene (ug/L)	0.005	0.005	0.005	0.005	0	8	0%	0.005	0.005	0.000	0.04	0.000	0.005	0.005
Acenaphthylene (ug/L)	0.005	0.017	0.007	0.005	2	8	25%	0.005	0.016	0.005	0.73	0.002	0.012	0.003
Anthracene (ug/L)	0.003	0.006	0.005	0.006	0	8	0%	0.003	0.006	0.002	0.39	0.001	0.006	0.003
Fluorene (ug/L)	0.005	0.025	0.007	0.005	1	8	13%	0.005	0.011	0.007	0.98	0.003	0.013	0.001
Naphthalene (ug/L)	0.013	0.032	0.020	0.014	3	7	43%	0.013	0.030	0.009	0.44	0.003	0.028	0.012
Phenanthrene (ug/L)	0.020	0.070	0.043	0.040	8	8	100%	0.023	0.065	0.019	0.45	0.007	0.059	0.026
<b>Total LPAHs<sup>1</sup></b>	<b>0.054</b>	<b>0.147</b>	<b>0.087</b>	<b>0.083</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0.056</b>	<b>0.122</b>	<b>0.032</b>	<b>0.36</b>	<b>0.012</b>	<b>0.117</b>	<b>0.058</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.070	0.026	0.021	7	8	88%	0.008	0.048	0.022	0.83	0.008	0.044	0.008
Benzo(a)pyrene (ug/L)	0.002	0.076	0.040	0.047	7	8	88%	0.011	0.062	0.025	0.64	0.009	0.061	0.018
Benzo(b,k)fluoranthene (ug/L)	0.032	1.140	0.226	0.118	8	8	100%	0.046	0.441	0.372	1.64	0.131	0.537	-0.085
Benzo(g,h,i)perylene (ug/L)	0.017	0.270	0.068	0.040	8	8	100%	0.023	0.132	0.084	1.23	0.030	0.138	-0.002
Chrysene (ug/L)	0.012	0.362	0.081	0.043	8	8	100%	0.022	0.158	0.115	1.43	0.041	0.177	-0.016
Dibenz(a,h)anthracene (ug/L)	0.003	0.305	0.042	0.003	2	8	25%	0.003	0.098	0.106	2.57	0.038	0.131	-0.048
Fluoranthene (ug/L)	0.025	0.286	0.098	0.077	8	8	100%	0.035	0.175	0.084	0.86	0.030	0.168	0.028
Indeno(1,2,3-cd)pyrene (ug/L)	0.015	0.313	0.071	0.042	8	8	100%	0.021	0.137	0.099	1.38	0.035	0.154	-0.011
Pyrene (ug/L)	0.034	0.221	0.098	0.093	8	8	100%	0.041	0.159	0.061	0.62	0.022	0.149	0.047
Retene (ug/L)	0.003	0.222	0.037	0.011	7	8	88%	0.005	0.084	0.075	2.00	0.026	0.100	-0.025
<b>Total HPAHs<sup>2</sup></b>	<b>0.163</b>	<b>3.043</b>	<b>0.749</b>	<b>0.486</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.220</b>	<b>1.402</b>	<b>0.946</b>	<b>1.26</b>	<b>0.334</b>	<b>1.540</b>	<b>-0.041</b>
<b>TOTAL PAHs</b>	<b>0.217</b>	<b>3.190</b>	<b>0.866</b>	<b>0.511</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0.278</b>	<b>1.758</b>	<b>1.046</b>	<b>1.21</b>	<b>0.396</b>	<b>1.834</b>	<b>-0.102</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.84	1.86	1.26	1.34	8	8	100%	0.85	1.59	0.36	0.28	0.13	1.56	0.96
Butyl benzyl phthalate (ug/L)	0.199	0.540	0.246	0.204	1	8	13%	0.201	0.308	0.119	0.48	0.042	0.345	0.147
Diethyl phthalate (ug/L)	0.154	0.162	0.158	0.158	0	8	0%	0.156	0.161	0.002	0.02	0.001	0.160	0.156
Dimethyl phthalate (ug/L)	0.168	0.176	0.172	0.172	0	8	0%	0.170	0.175	0.003	0.02	0.001	0.174	0.170
Di-n-butyl phthalate (ug/L)	0.148	0.525	0.343	0.398	5	8	63%	0.149	0.519	0.168	0.49	0.059	0.484	0.203
Di-n-Octyl phthalate (ug/L)	0.178	0.756	0.254	0.182	1	8	13%	0.180	0.357	0.203	0.80	0.072	0.423	0.084
<b>*Total Phthalates<sup>4</sup></b>	<b>0.85</b>	<b>3.13</b>	<b>1.71</b>	<b>1.59</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.91</b>	<b>2.57</b>	<b>0.77</b>	<b>0.45</b>	<b>0.27</b>	<b>2.35</b>	<b>1.06</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.021	0.113	0.054	0.059	7	7	100%	0.021	0.089	0.034	0.62	0.013	0.085	0.023
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.24	0.62	0.47	0.52	4	4	100%	0.32	0.59	0.16	0.35	0.08	0.73	0.21
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	1700	14000	6725	5600	4	4	100%	2180	12170	5516	0.82	2758	15503	-2053
E.coli (CFU/100 ml)	1100	14000	5575	3600	4	4	100%	1460	11270	5836	1.05	2918	14862	-3712
Enterococci (CFU/100 ml)	3400	9500	5450	4450	4	4	100%	3700	8000	2745	0.50	1373	9818	1082



**Table E-11**  
**Summary Statistics for Stormwater at OF237B Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.357	0.051	0.039	76	85	89%	0.018	0.074	0.050	0.99	0.005	0.061	0.040
BOD (mg/L)	1.0	8.5	3.0	2.7	55	70	79%	1.0	5.3	1.8	0.59	0.2	3.4	2.6
Chloride (mg/L)	1.87	68.60	6.23	4.71	81	82	99%	2.93	9.32	7.48	1.20	0.83	7.88	4.59
Conductivity (uS/cm)	39.5	708	133	123	145	145	100%	81.5	184.0	67.8	0.51	5.6	144.2	121.9
Hardness (mg CaCO3/L)	20.7	1220	54.5	48.1	211	211	100%	32.3	68.9	81.8	1.50	5.6	65.6	43.4
pH (pH units)	5.7	8.8	6.9	7.0	212	212	100%	6.4	7.3	0.4	0.06	0.0	7.0	6.9
TSS (mg/L)	3.6	278	49.0	35.5	200	200	100%	13.5	98.1	43.7	0.89	3.1	55.1	42.9
Turbidity (NTU)	7.2	50.2	19.8	18.5	57	57	100%	10.9	32.0	9.4	0.47	1.2	22.3	17.4
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.190	2.720	1.179	1.110	107	107	100%	0.728	1.764	0.417	0.35	0.040	1.259	1.099
Phosphorus, Total (mg/L)	0.017	0.564	0.105	0.088	105	106	99%	0.054	0.173	0.065	0.62	0.006	0.117	0.092
Phosphate, Ortho (mg/L)	0.006	0.128	0.024	0.021	106	106	100%	0.015	0.038	0.015	0.62	0.001	0.027	0.022
Total Nitrogen (mg/L)	0.13	3.19	1.28	1.23	106	107	99%	0.71	1.96	0.52	0.41	0.05	1.38	1.18
<b>Metals</b>														
Cadmium (ug/L)	0.007	0.455	0.086	0.063	72	122	59%	0.030	0.179	0.076	0.88	0.007	0.099	0.072
Cadmium, Dissolved (ug/L)	0.005	0.106	0.034	0.025	42	123	34%	0.017	0.075	0.024	0.71	0.002	0.038	0.029
Copper (ug/L)	2.93	27.90	7.89	6.47	120	120	100%	4.03	12.60	4.37	0.55	0.40	8.68	7.10
Copper, Dissolved (ug/L)	0.75	8.06	2.61	2.22	116	117	99%	1.60	3.84	1.21	0.47	0.11	2.83	2.38
Lead (ug/L)	1.40	64.20	10.10	6.70	208	210	99%	2.44	22.82	9.79	0.97	0.68	11.43	8.77
Lead, Dissolved (ug/L)	0.003	11.400	0.541	0.280	141	212	67%	0.162	0.886	0.998	1.84	0.069	0.676	0.406
Mercury (ug/L)	0.0004	0.2160	0.0200	0.0250	61	212	29%	0.0040	0.0250	0.0266	1.33	0.0018	0.0236	0.0164
Mercury, Dissolved (ug/L)	0.0009	0.1000	0.0157	0.0250	19	212	9%	0.0009	0.0250	0.0132	0.84	0.0009	0.0175	0.0140
Zinc (ug/L)	15.0	285.0	61.3	45.4	211	211	100%	25.3	116.0	44.8	0.73	3.1	67.3	55.2
Zinc, Dissolved (ug/L)	6.3	260.0	24.7	19.1	211	212	100%	12.5	40.5	23.5	0.95	1.6	27.9	21.5
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	2.100	0.344	0.170	45	72	63%	0.029	0.675	0.445	1.29	0.052	0.448	0.239
Carbaryl (ug/L)	0.03	0.25	0.13	0.13	0	26	0%	0.03	0.25	0.11	0.80	0.02	0.18	0.09
Chlorpyrifos (ug/L)	0.003	0.061	0.019	0.009	1	94	1%	0.004	0.059	0.018	0.97	0.002	0.023	0.015
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	2	25	8%	0.005	0.005	0.001	0.22	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.002	0.250	0.012	0.006	122	212	58%	0.004	0.022	0.020	1.69	0.001	0.015	0.009
Acenaphthene (ug/L)	0.002	0.063	0.006	0.005	37	212	17%	0.002	0.011	0.006	1.02	0.000	0.006	0.005
Acenaphthylene (ug/L)	0.002	0.064	0.005	0.005	30	212	14%	0.002	0.006	0.005	1.04	0.000	0.006	0.004
Anthracene (ug/L)	0.002	0.097	0.007	0.005	47	212	22%	0.003	0.014	0.009	1.32	0.001	0.008	0.006
Fluorene (ug/L)	0.002	0.078	0.007	0.005	73	212	34%	0.003	0.015	0.009	1.16	0.001	0.009	0.006
Naphthalene (ug/L)	0.003	0.130	0.017	0.013	134	210	64%	0.005	0.030	0.014	0.83	0.001	0.018	0.015
Phenanthrene (ug/L)	0.002	0.838	0.045	0.021	186	212	88%	0.009	0.112	0.076	1.67	0.005	0.056	0.035
<b>Total LPAHs<sup>1</sup></b>	<b>0.006</b>	<b>1.134</b>	<b>0.080</b>	<b>0.054</b>	<b>210</b>	<b>210</b>	<b>100%</b>	<b>0.018</b>	<b>0.183</b>	<b>0.103</b>	<b>1.29</b>	<b>0.007</b>	<b>0.094</b>	<b>0.066</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.685	0.030	0.011	153	212	72%	0.003	0.080	0.060	2.03	0.004	0.038	0.021
Benzo(a)pyrene (ug/L)	0.002	0.690	0.035	0.013	153	212	72%	0.003	0.092	0.066	1.90	0.005	0.044	0.026
Benzo(b,k)fluoranthene (ug/L)	0.002	1.763	0.096	0.036	171	212	81%	0.006	0.262	0.175	1.83	0.012	0.120	0.072
Benzo(g,h,i)perylene (ug/L)	0.002	0.614	0.043	0.019	181	212	85%	0.004	0.107	0.065	1.53	0.004	0.052	0.034
Chrysene (ug/L)	0.002	0.965	0.063	0.022	178	212	84%	0.003	0.183	0.107	1.70	0.007	0.078	0.049
Dibenz(a,h)anthracene (ug/L)	0.001	0.143	0.009	0.004	75	212	35%	0.002	0.021	0.013	1.54	0.001	0.010	0.007
Fluoranthene (ug/L)	0.003	1.835	0.095	0.036	208	212	98%	0.010	0.255	0.174	1.83	0.012	0.119	0.072
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.546	0.031	0.014	159	212	75%	0.003	0.075	0.052	1.69	0.004	0.038	0.024
Pyrene (ug/L)	0.002	1.493	0.098	0.041	203	212	96%	0.012	0.273	0.157	1.60	0.011	0.119	0.077
Retene (ug/L)	0.003	0.022	0.007	0.007	15	23	65%	0.003	0.012	0.005	0.66	0.001	0.009	0.005
<b>Total HPAHs<sup>2</sup></b>	<b>0.019</b>	<b>8.734</b>	<b>0.494</b>	<b>0.188</b>	<b>211</b>	<b>211</b>	<b>100%</b>	<b>0.038</b>	<b>1.356</b>	<b>0.868</b>	<b>1.76</b>	<b>0.060</b>	<b>0.611</b>	<b>0.376</b>
<b>TOTAL PAHs</b>	<b>0.028</b>	<b>9.868</b>	<b>0.576</b>	<b>0.257</b>	<b>210</b>	<b>210</b>	<b>100%</b>	<b>0.067</b>	<b>1.577</b>	<b>0.966</b>	<b>1.68</b>	<b>0.067</b>	<b>0.707</b>	<b>0.444</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.14	12.00	1.90	1.12	176	211	83%	0.43	4.70	2.05	1.08	0.14	2.18	1.63
Butyl benzyl phthalate (ug/L)	0.085	2.80	0.331	0.219	28	212	13%	0.144	0.500	0.306	0.92	0.021	0.373	0.290
Diethyl phthalate (ug/L)	0.050	52.00	0.980	0.190	57	212	27%	0.131	0.980	4.728	4.83	0.325	1.620	0.340
Dimethyl phthalate (ug/L)	0.016	0.550	0.245	0.174	6	211	3%	0.038	0.500	0.178	0.72	0.012	0.269	0.221
Di-n-butyl phthalate (ug/L)	0.095	1.000	0.337	0.331	81	212	38%	0.145	0.500	0.165	0.49	0.011	0.359	0.315
Di-n-Octyl phthalate (ug/L)	0.042	2.300	0.320	0.185	42	211	20%	0.042	0.500	0.314	0.98	0.022	0.362	0.277
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>66.20</b>	<b>2.87</b>	<b>1.47</b>	<b>191</b>	<b>211</b>	<b>91%</b>	<b>0.23</b>	<b>5.60</b>	<b>5.85</b>	<b>2.04</b>	<b>0.40</b>	<b>3.67</b>	<b>2.08</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.009	1.380	0.069	0.037	79	115	69%	0.011	0.118	0.139	2.02	0.013	0.095	0.043
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.34	0.05	0.05	9	75	12%	0.02	0.10	0.04	0.81	0.01	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	395.0	24.1	25.0	14	70	20%	2.3	25.0	46.5	1.93	5.6	35.1	13.0
NWTPH-Heavy Oil (mg/L)	0.03	1.30	0.48	0.42	66	75	88%	0.12	0.90	0.29	0.61	0.03	0.54	0.41
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	130	280000	8716	2400	72	72	100%	300	16000	32877	3.77	3875	16442	991
<i>E.coli</i> (CFU/100 ml)	790	140000	25532	3150	6	6	100%	945	72500	56111	2.20	22907	84417	-33353
<i>Enterococci</i> (CFU/100 ml)	3100	220000	36429	6700	7	7	100%	3340	94600	80996	2.22	30614	111338	-38481
<b>BTEX</b>														
Benzene (ug/L)	0.1	0.3	0.1	0.1	1	48	2%	0.1	0.1	0.0	0.28	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.8	0.1	0.1	1	48	2%	0.1	0.1	0.1	0.88	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	3.5	0.3	0.2	1	48	2%	0.2	0.2	0.5	1.77	0.1	0.4	0.1
o-Xylene (ug/L)	0.1	1.6	0.1	0.1	1	48	2%	0.1	0.1	0.2	1.65	0.0	0.2	0.1
Toluene (ug/L)	0.1	4.0	0.2	0.1	2	48	4%	0.1	0.1	0.6	3.07	0.1	0.3	0.0

**Table E-11 (Cont'd)**  
**Summary Statistics for Stormwater at OF237B WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.025	0.067	0.042	0.035	8	8	100%	0.028	0.060	0.015	0.37	0.005	0.054	0.029
BOD (mg/L)	2.2	4.4	2.7	2.5	8	8	100%	2.2	3.4	0.7	0.28	0.3	3.3	2.1
Chloride (mg/L)	3.64	7.58	5.50	5.05	8	8	100%	4.30	7.27	1.39	0.25	0.49	6.66	4.34
Conductivity (uS/cm)	98.1	203.0	131.7	123.0	11	11	100%	105.0	173.0	31.0	0.24	9.3	152.5	110.9
Hardness (mg CaCO3/L)	35.8	83.0	51.2	48.4	11	11	100%	41.7	65.3	12.9	0.25	3.9	59.9	42.5
pH (pH units)	6.9	7.3	7.1	7.1	11	11	100%	6.9	7.3	0.1	0.02	0.0	7.2	7.0
TSS (mg/L)	8.2	31.6	19.1	20.2	10	10	100%	8.8	31.5	8.8	0.46	2.8	25.4	12.8
Turbidity (NTU)	10.8	24.8	16.8	16.7	8	8	100%	11.1	23.5	5.3	0.32	1.9	21.2	12.3
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.902	1.850	1.131	1.045	10	10	100%	0.957	1.283	0.273	0.24	0.086	1.327	0.936
Phosphorus, Total (mg/L)	0.047	0.102	0.076	0.074	10	10	100%	0.048	0.101	0.020	0.26	0.006	0.089	0.062
Phosphate, Ortho (mg/L)	0.014	0.034	0.021	0.019	10	10	100%	0.015	0.027	0.006	0.31	0.002	0.025	0.016
Total Nitrogen (mg/L)	0.97	2.28	1.33	1.24	10	10	100%	1.02	1.53	0.37	0.28	0.12	1.59	1.06
<b>Metals</b>														
Cadmium (ug/L)	0.032	0.050	0.042	0.050	0	11	0%	0.032	0.050	0.010	0.23	0.003	0.048	0.035
Cadmium, Dissolved (ug/L)	0.020	0.023	0.021	0.023	0	11	0%	0.020	0.023	0.001	0.06	0.000	0.022	0.020
Copper (ug/L)	3.10	6.57	4.90	5.06	11	11	100%	3.75	6.18	1.03	0.21	0.31	5.59	4.20
Copper, Dissolved (ug/L)	1.61	2.66	2.08	2.03	11	11	100%	1.72	2.57	0.36	0.17	0.11	2.33	1.84
Lead (ug/L)	1.40	4.60	3.09	3.15	11	11	100%	1.79	4.37	1.11	0.36	0.33	3.83	2.34
Lead, Dissolved (ug/L)	0.059	0.315	0.228	0.245	11	11	100%	0.180	0.279	0.067	0.29	0.020	0.273	0.183
Mercury (ug/L)	0.0040	0.0080	0.0044	0.0040	1	11	9%	0.0040	0.0040	0.0012	0.28	0.0004	0.0052	0.0036
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	11	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	16.2	42.4	29.7	28.9	11	11	100%	21.9	38.5	7.7	0.26	2.3	34.8	24.5
Zinc, Dissolved (ug/L)	8.2	24.2	15.0	14.3	11	11	100%	10.9	20.8	4.6	0.30	1.4	18.1	12.0
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	11	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.045	0.010	0.005	4	11	36%	0.005	0.012	0.012	1.14	0.004	0.018	0.002
Acenaphthene (ug/L)	0.005	0.005	0.005	0.005	0	11	0%	0.005	0.005	0.000	0.04	0.000	0.005	0.005
Acenaphthylene (ug/L)	0.005	0.017	0.006	0.005	1	11	9%	0.005	0.005	0.004	0.67	0.001	0.008	0.003
Anthracene (ug/L)	0.003	0.006	0.004	0.003	0	11	0%	0.003	0.006	0.002	0.45	0.001	0.005	0.003
Fluorene (ug/L)	0.005	0.005	0.005	0.005	0	11	0%	0.005	0.005	0.000	0.05	0.000	0.005	0.005
Naphthalene (ug/L)	0.008	0.041	0.017	0.013	4	10	40%	0.008	0.026	0.010	0.58	0.003	0.024	0.010
Phenanthrene (ug/L)	0.004	0.021	0.013	0.012	6	11	55%	0.009	0.021	0.006	0.46	0.002	0.016	0.009
<b>Total LPAHs<sup>1</sup></b>	<b>0.036</b>	<b>0.078</b>	<b>0.050</b>	<b>0.042</b>	<b>10</b>	<b>10</b>	<b>100%</b>	<b>0.038</b>	<b>0.069</b>	<b>0.014</b>	<b>0.29</b>	<b>0.004</b>	<b>0.060</b>	<b>0.039</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.020	0.006	0.003	4	11	36%	0.003	0.011	0.005	0.88	0.002	0.010	0.002
Benzo(a)pyrene (ug/L)	0.002	0.021	0.010	0.009	9	11	82%	0.002	0.017	0.006	0.66	0.002	0.014	0.005
Benzo(b,k)fluoranthene (ug/L)	0.013	0.074	0.031	0.027	11	11	100%	0.019	0.048	0.017	0.54	0.005	0.043	0.020
Benzo(g,h,i)perylene (ug/L)	0.008	0.030	0.014	0.014	11	11	100%	0.008	0.019	0.006	0.43	0.002	0.019	0.010
Chrysene (ug/L)	0.004	0.031	0.014	0.012	8	11	73%	0.004	0.022	0.008	0.62	0.003	0.019	0.008
Dibenz(a,h)anthracene (ug/L)	0.003	0.016	0.004	0.003	1	11	9%	0.003	0.003	0.004	0.94	0.001	0.007	0.002
Fluoranthene (ug/L)	0.013	0.043	0.024	0.023	11	11	100%	0.014	0.038	0.010	0.41	0.003	0.030	0.017
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.029	0.011	0.011	9	11	82%	0.003	0.016	0.007	0.67	0.002	0.016	0.006
Pyrene (ug/L)	0.017	0.046	0.031	0.032	11	11	100%	0.020	0.046	0.011	0.34	0.003	0.039	0.024
Retene (ug/L)	0.003	0.008	0.006	0.007	7	11	64%	0.003	0.008	0.003	0.45	0.001	0.007	0.004
<b>Total HPAHs<sup>2</sup></b>	<b>0.068</b>	<b>0.305</b>	<b>0.146</b>	<b>0.140</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.085</b>	<b>0.212</b>	<b>0.069</b>	<b>0.47</b>	<b>0.021</b>	<b>0.192</b>	<b>0.099</b>
<b>TOTAL PAHs</b>	<b>0.106</b>	<b>0.373</b>	<b>0.193</b>	<b>0.161</b>	<b>10</b>	<b>10</b>	<b>100%</b>	<b>0.124</b>	<b>0.266</b>	<b>0.081</b>	<b>0.42</b>	<b>0.026</b>	<b>0.252</b>	<b>0.135</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.58	1.18	0.82	0.77	11	11	100%	0.66	1.03	0.18	0.22	0.05	0.94	0.70
Butyl benzyl phthalate (ug/L)	0.199	0.209	0.204	0.205	0	11	0%	0.201	0.206	0.003	0.01	0.001	0.206	0.202
Diethyl phthalate (ug/L)	0.154	0.162	0.158	0.159	0	11	0%	0.155	0.160	0.002	0.01	0.001	0.160	0.157
Dimethyl phthalate (ug/L)	0.168	0.176	0.172	0.173	0	11	0%	0.169	0.174	0.002	0.01	0.001	0.174	0.171
Di-n-butyl phthalate (ug/L)	0.149	0.487	0.283	0.321	7	11	64%	0.150	0.361	0.115	0.41	0.035	0.361	0.206
Di-n-Octyl phthalate (ug/L)	0.178	0.187	0.182	0.183	0	11	0%	0.179	0.184	0.002	0.01	0.001	0.184	0.181
<b>*Total Phthalates<sup>4</sup></b>	<b>0.89</b>	<b>1.24</b>	<b>1.05</b>	<b>1.03</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.93</b>	<b>1.22</b>	<b>0.12</b>	<b>0.11</b>	<b>0.04</b>	<b>1.13</b>	<b>0.97</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.012	0.106	0.048	0.038	10	10	100%	0.017	0.092	0.031	0.65	0.010	0.070	0.025
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.28	0.89	0.60	0.61	4	4	100%	0.34	0.84	0.27	0.45	0.13	1.02	0.17
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	790	2400	1530	1400	3	3	100%	912	2200	813	0.53	469	3549	-489
E.Coli (CFU/100 ml)	790	1300	1063	1100	3	3	100%	852	1260	257	0.24	148	1702	425
Enterococci (CFU/100 ml)	3100	11000	6200	5350	4	4	100%	3220	9860	3694	0.60	1847	12078	322

**Table E-12  
Summary Statistics for Stormwater at OF243 Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.158	0.046	0.043	47	48	98%	0.025	0.077	0.025	0.54	0.004	0.054	0.039
BOD (mg/L)	1.0	8.5	3.1	2.7	34	47	72%	1.0	4.8	2.0	0.66	0.3	3.7	2.5
Chloride (mg/L)	261	25400	1968	1200	49	49	100%	737	2606	3514	1.79	502	2977	959
Conductivity (uS/cm)	942	13300	5128	4210	91	91	100%	2690	8490	2598	0.51	272	5669	4587
Hardness (mg CaCO3/L)	59.3	3150	517	430	137	137	100%	229	873	358	0.69	30.6	578	457
pH (pH units)	6.1	7.8	7.0	7.1	137	137	100%	6.7	7.3	0.3	0.04	0.0	7.1	7.0
TSS (mg/L)	4.4	300	64.2	41.8	134	134	100%	15.3	153.6	58.9	0.92	5.1	74.2	54.1
Turbidity (NTU)	0.2	169	48.2	34.2	48	48	100%	17.1	107.9	39.0	0.81	5.6	59.5	36.9
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.089	0.799	0.250	0.215	53	53	100%	0.111	0.409	0.132	0.53	0.018	0.287	0.214
Phosphorus, Total (mg/L)	0.043	3.680	0.451	0.212	53	53	100%	0.112	0.946	0.627	1.39	0.086	0.624	0.278
Phosphate, Ortho (mg/L)	0.009	0.138	0.034	0.031	53	53	100%	0.016	0.047	0.021	0.63	0.003	0.040	0.028
Total Nitrogen (mg/L)	0.26	2.11	0.74	0.73	53	53	100%	0.40	1.06	0.31	0.42	0.04	0.83	0.66
<b>Metals</b>														
Cadmium (ug/L)	0.007	1.250	0.235	0.173	49	58	84%	0.078	0.442	0.197	0.84	0.026	0.287	0.183
Cadmium, Dissolved (ug/L)	0.005	0.173	0.083	0.083	46	58	79%	0.025	0.130	0.038	0.46	0.005	0.093	0.073
Copper (ug/L)	3.22	110.00	21.13	17.15	58	58	100%	9.64	36.72	16.54	0.78	2.17	25.48	16.78
Copper, Dissolved (ug/L)	0.95	8.58	3.83	3.61	58	58	100%	1.92	6.09	1.65	0.43	0.22	4.26	3.39
Lead (ug/L)	0.12	379	33.67	16.20	137	137	100%	4.92	67.48	51.48	1.53	4.40	42.37	24.97
Lead, Dissolved (ug/L)	0.003	145.0	2.660	0.350	102	137	74%	0.017	4.020	12.778	4.80	1.092	4.818	0.501
Mercury (ug/L)	0.0008	0.1880	0.0257	0.0250	50	137	36%	0.0040	0.0582	0.0312	1.22	0.0027	0.0310	0.0204
Mercury, Dissolved (ug/L)	0.0009	0.5520	0.0187	0.0250	5	137	4%	0.0009	0.0250	0.0472	2.52	0.0040	0.0267	0.0107
Zinc (ug/L)	12.3	1170	92.4	67.0	137	137	100%	39.1	146.0	108.7	1.18	9.3	110.8	74.1
Zinc, Dissolved (ug/L)	5.6	910	34.2	22.7	137	137	100%	12.8	47.5	77.6	2.27	6.6	47.3	21.1
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	0.190	0.049	0.037	19	33	58%	0.009	0.104	0.042	0.86	0.007	0.064	0.034
Carbaryl (ug/L)	0.03	0.25	0.18	0.25	0	18	0%	0.03	0.25	0.10	0.56	0.02	0.23	0.13
Chlorpyrifos (ug/L)	0.003	0.443	0.030	0.019	1	50	2%	0.005	0.059	0.062	2.05	0.009	0.048	0.013
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	1	17	6%	0.005	0.005	0.001	0.26	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.002	0.136	0.012	0.009	90	137	66%	0.003	0.024	0.015	1.20	0.001	0.015	0.010
Acenaphthene (ug/L)	0.002	0.105	0.021	0.018	119	137	87%	0.005	0.037	0.015	0.72	0.001	0.023	0.018
Acenaphthylene (ug/L)	0.002	0.064	0.008	0.005	63	137	46%	0.003	0.019	0.008	0.93	0.001	0.010	0.007
Anthracene (ug/L)	0.002	0.079	0.029	0.027	129	137	94%	0.009	0.050	0.017	0.58	0.001	0.032	0.026
Fluorene (ug/L)	0.002	0.098	0.014	0.010	101	137	74%	0.005	0.028	0.013	0.97	0.001	0.016	0.012
Naphthalene (ug/L)	0.003	0.135	0.022	0.018	97	136	71%	0.005	0.037	0.019	0.85	0.002	0.025	0.019
Phenanthrene (ug/L)	0.002	0.221	0.049	0.032	133	137	97%	0.013	0.124	0.045	0.91	0.004	0.057	0.042
<b>Total LPAHs<sup>1</sup></b>	<b>0.030</b>	<b>0.473</b>	<b>0.138</b>	<b>0.120</b>	<b>136</b>	<b>136</b>	<b>100%</b>	<b>0.047</b>	<b>0.264</b>	<b>0.086</b>	<b>0.62</b>	<b>0.007</b>	<b>0.152</b>	<b>0.123</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.615	0.034	0.016	108	137	79%	0.003	0.076	0.066	1.95	0.006	0.045	0.023
Benzo(a)pyrene (ug/L)	0.002	0.654	0.034	0.017	104	137	76%	0.003	0.079	0.065	1.91	0.006	0.045	0.023
Benzo(b,k)fluoranthene (ug/L)	0.005	1.430	0.090	0.041	121	137	88%	0.008	0.209	0.155	1.73	0.013	0.116	0.063
Benzo(g,h,i)perylene (ug/L)	0.002	0.503	0.036	0.020	116	137	85%	0.004	0.090	0.054	1.50	0.005	0.046	0.027
Chrysene (ug/L)	0.002	0.788	0.064	0.028	126	137	92%	0.005	0.153	0.103	1.61	0.009	0.081	0.046
Dibenz(a,h)anthracene (ug/L)	0.002	0.684	0.012	0.004	45	137	33%	0.002	0.017	0.058	4.78	0.005	0.022	0.002
Fluoranthene (ug/L)	0.013	0.444	0.090	0.053	137	137	100%	0.020	0.236	0.090	1.00	0.008	0.105	0.074
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.620	0.028	0.016	105	137	77%	0.003	0.061	0.057	2.03	0.005	0.038	0.019
Pyrene (ug/L)	0.012	0.620	0.095	0.055	137	137	100%	0.020	0.235	0.100	1.06	0.009	0.111	0.078
Retene (ug/L)	0.003	0.016	0.009	0.009	14	16	88%	0.004	0.015	0.004	0.44	0.001	0.011	0.007
<b>Total HPAHs<sup>2</sup></b>	<b>0.031</b>	<b>5.835</b>	<b>0.472</b>	<b>0.247</b>	<b>137</b>	<b>137</b>	<b>100%</b>	<b>0.069</b>	<b>1.205</b>	<b>0.690</b>	<b>1.46</b>	<b>0.059</b>	<b>0.589</b>	<b>0.355</b>
<b>TOTAL PAHs</b>	<b>0.065</b>	<b>6.048</b>	<b>0.613</b>	<b>0.374</b>	<b>136</b>	<b>136</b>	<b>100%</b>	<b>0.125</b>	<b>1.429</b>	<b>0.747</b>	<b>1.22</b>	<b>0.064</b>	<b>0.739</b>	<b>0.486</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.18	41.00	1.88	0.93	111	136	82%	0.34	4.03	3.74	1.99	0.32	2.51	1.24
Butyl benzyl phthalate (ug/L)	0.085	9.200	0.812	0.220	32	137	23%	0.138	1.920	1.584	1.95	0.135	1.080	0.545
Diethyl phthalate (ug/L)	0.070	7.600	0.436	0.216	42	137	31%	0.119	0.640	0.733	1.68	0.063	0.560	0.313
Dimethyl phthalate (ug/L)	0.016	1.000	0.257	0.173	1	136	1%	0.032	0.500	0.193	0.75	0.017	0.290	0.224
Di-n-butyl phthalate (ug/L)	0.050	1.270	0.340	0.278	41	137	30%	0.142	0.500	0.209	0.62	0.018	0.375	0.304
Di-n-Octyl phthalate (ug/L)	0.042	1.490	0.303	0.185	14	135	10%	0.042	0.500	0.243	0.80	0.021	0.345	0.262
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>41.00</b>	<b>2.75</b>	<b>1.30</b>	<b>123</b>	<b>137</b>	<b>90%</b>	<b>0.00</b>	<b>6.91</b>	<b>4.47</b>	<b>1.63</b>	<b>0.38</b>	<b>3.50</b>	<b>1.99</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.046	0.019	0.012	17	65	26%	0.010	0.038	0.012	0.63	0.001	0.022	0.016
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.19	0.05	0.05	3	40	8%	0.02	0.05	0.03	0.63	0.01	0.06	0.04
NWTPH-Gasoline (mg/L)	2.3	25.0	19.8	25.0	0	35	0%	2.3	25.0	9.7	0.49	1.6	23.1	16.5
NWTPH-Heavy Oil (mg/L)	0.02	0.83	0.33	0.33	32	40	80%	0.09	0.56	0.20	0.60	0.03	0.39	0.26
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	170	49000	6725	2400	39	39	100%	308	16000	9668	1.44	1548	9860	3591
E.coli (CFU/100 ml)	130	8000	2369	1300	7	7	100%	202	5180	2765	1.17	1045	4926	-189
Enterococci (CFU/100 ml)	3000	110000	23514	10000	7	7	100%	3960	56000	38576	1.64	14580	59191	-12163
<b>BTEX</b>														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	35	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	35	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.6	0.2	0.2	1	35	3%	0.2	0.2	0.1	0.32	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	35	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.5	0.1	0.1	4	35	11%	0.1	0.2	0.1	0.69	0.0	0.2	0.1

**Table E-12 (Cont'd)**  
**Summary Statistics for Stormwater at OF243 WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (mg/L)	0.028	0.053	0.043	0.046	7	7	100%	0.029	0.052	0.010	0.23	0.004	0.052	0.034
BOD (mg/L)	1.0	4.8	2.6	2.4	5	7	71%	1.0	4.1	1.4	0.53	0.5	3.8	1.3
Chloride (mg/L)	627.00	2560.00	1492.14	1520.00	7	7	100%	807.60	2092.00	619.54	0.42	234.16	2065.12	919.16
Conductivity (uS/cm)	2260.0	7870.0	5302.9	5280.0	7	7	100%	3814.0	6874.0	1692.7	0.32	639.8	6868.3	3737.4
Hardness (mg CaCO3/L)	232.0	766.0	535.6	519.0	7	7	100%	382.0	690.4	165.6	0.31	62.6	688.7	382.4
pH (pH units)	7.0	7.4	7.2	7.2	7	7	100%	7.1	7.3	0.1	0.02	0.1	7.3	7.1
TSS (mg/L)	9.2	41.7	29.0	37.0	7	7	100%	11.1	39.6	13.2	0.46	5.0	41.2	16.8
Turbidity (NTU)	11.4	47.2	30.3	33.9	7	7	100%	15.4	40.2	11.9	0.39	4.5	41.3	19.3
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.160	0.395	0.225	0.198	7	7	100%	0.175	0.293	0.078	0.35	0.029	0.297	0.153
Phosphorus, Total (mg/L)	0.107	0.583	0.244	0.179	7	7	100%	0.129	0.401	0.161	0.66	0.061	0.393	0.096
Phosphate, Ortho (mg/L)	0.016	0.033	0.028	0.031	7	7	100%	0.022	0.032	0.006	0.21	0.002	0.034	0.023
Total Nitrogen (mg/L)	0.40	1.30	0.65	0.55	7	7	100%	0.40	1.01	0.32	0.50	0.12	0.95	0.35
<b>Metals</b>														
Cadmium (ug/L)	0.097	0.346	0.209	0.179	7	7	100%	0.132	0.315	0.087	0.41	0.033	0.289	0.129
Cadmium, Dissolved (ug/L)	0.050	0.091	0.070	0.070	6	7	86%	0.054	0.088	0.015	0.21	0.006	0.083	0.056
Copper (ug/L)	6.86	20.20	14.04	13.50	7	7	100%	8.98	18.40	4.54	0.32	1.71	18.23	9.84
Copper, Dissolved (ug/L)	2.98	4.57	4.02	4.33	7	7	100%	3.11	4.53	0.65	0.16	0.25	4.62	3.41
Lead (ug/L)	2.41	14.50	8.77	9.27	7	7	100%	3.18	13.36	4.38	0.50	1.66	12.82	4.72
Lead, Dissolved (ug/L)	0.124	0.411	0.291	0.282	7	7	100%	0.169	0.409	0.105	0.36	0.040	0.388	0.193
Mercury (ug/L)	0.0040	0.0040	0.0040	0.0040	0	7	0%	0.0040	0.0040	0.0000	0.00	0.0000	0.0040	0.0040
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	7	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	28.3	59.7	46.6	48.2	7	7	100%	35.0	58.1	10.8	0.23	4.1	56.6	36.6
Zinc, Dissolved (ug/L)	16.3	23.7	19.4	18.4	7	7	100%	17.3	22.1	2.5	0.13	0.9	21.7	17.1
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	7	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.022	0.011	0.011	4	7	57%	0.005	0.018	0.006	0.59	0.002	0.017	0.005
Acenaphthene (ug/L)	0.005	0.039	0.015	0.005	3	7	43%	0.005	0.031	0.014	0.90	0.005	0.028	0.003
Acenaphthylene (ug/L)	0.005	0.021	0.007	0.005	1	7	14%	0.005	0.011	0.006	0.91	0.002	0.013	0.001
Anthracene (ug/L)	0.017	0.065	0.036	0.035	7	7	100%	0.021	0.051	0.015	0.43	0.006	0.050	0.021
Fluorene (ug/L)	0.005	0.014	0.007	0.005	2	7	29%	0.005	0.012	0.004	0.55	0.001	0.011	0.003
Naphthalene (ug/L)	0.013	0.029	0.019	0.016	3	6	50%	0.013	0.027	0.007	0.38	0.003	0.026	0.011
Phenanthrene (ug/L)	0.012	0.037	0.024	0.024	7	7	100%	0.016	0.033	0.008	0.35	0.003	0.032	0.016
<b>Total LPAHs<sup>1</sup></b>	<b>0.070</b>	<b>0.163</b>	<b>0.111</b>	<b>0.108</b>	<b>6</b>	<b>6</b>	<b>100%</b>	<b>0.079</b>	<b>0.146</b>	<b>0.033</b>	<b>0.30</b>	<b>0.014</b>	<b>0.146</b>	<b>0.076</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.019	0.011	0.011	5	7	71%	0.003	0.018	0.006	0.59	0.002	0.017	0.005
Benzo(a)pyrene (ug/L)	0.002	0.025	0.011	0.014	5	7	71%	0.002	0.020	0.009	0.81	0.003	0.019	0.003
Benzo(b,k)fluoranthene (ug/L)	0.012	0.062	0.039	0.035	7	7	100%	0.023	0.055	0.016	0.41	0.006	0.053	0.024
Benzo(g,h,i)perylene (ug/L)	0.006	0.018	0.013	0.015	7	7	100%	0.008	0.017	0.005	0.34	0.002	0.018	0.009
Chrysene (ug/L)	0.004	0.032	0.018	0.019	6	7	86%	0.009	0.027	0.009	0.48	0.003	0.027	0.010
Dibenz(a,h)anthracene (ug/L)	0.003	0.003	0.003	0.003	0	7	0%	0.003	0.003	0.000	0.00	0.000	0.003	0.003
Fluoranthene (ug/L)	0.017	0.051	0.035	0.036	7	7	100%	0.023	0.047	0.011	0.33	0.004	0.045	0.024
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.020	0.013	0.014	6	7	86%	0.007	0.019	0.006	0.43	0.002	0.019	0.008
Pyrene (ug/L)	0.023	0.052	0.040	0.039	7	7	100%	0.029	0.051	0.010	0.26	0.004	0.050	0.031
Retene (ug/L)	0.003	0.014	0.009	0.009	6	7	86%	0.005	0.012	0.003	0.40	0.001	0.012	0.005
<b>Total HPAHs<sup>2</sup></b>	<b>0.075</b>	<b>0.250</b>	<b>0.184</b>	<b>0.183</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0.114</b>	<b>0.247</b>	<b>0.064</b>	<b>0.35</b>	<b>0.024</b>	<b>0.243</b>	<b>0.124</b>
<b>TOTAL PAHs</b>	<b>0.195</b>	<b>0.394</b>	<b>0.298</b>	<b>0.322</b>	<b>6</b>	<b>6</b>	<b>100%</b>	<b>0.202</b>	<b>0.369</b>	<b>0.079</b>	<b>0.27</b>	<b>0.032</b>	<b>0.381</b>	<b>0.215</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.37	1.21	0.69	0.66	7	7	100%	0.47	0.97	0.27	0.39	0.10	0.94	0.44
Butyl benzyl phthalate (ug/L)	0.202	0.207	0.204	0.204	0	7	0%	0.202	0.207	0.002	0.01	0.001	0.206	0.203
Diethyl phthalate (ug/L)	0.377	1.100	0.632	0.516	7	7	100%	0.447	0.903	0.243	0.39	0.092	0.857	0.407
Dimethyl phthalate (ug/L)	0.170	0.174	0.172	0.172	0	7	0%	0.171	0.174	0.001	0.01	0.001	0.174	0.171
Di-n-butyl phthalate (ug/L)	0.147	0.351	0.204	0.151	2	7	29%	0.148	0.338	0.093	0.46	0.035	0.290	0.117
Di-n-Octyl phthalate (ug/L)	0.180	0.185	0.182	0.182	0	7	0%	0.181	0.185	0.002	0.01	0.001	0.184	0.181
<b>*Total Phthalates<sup>4</sup></b>	<b>0.92</b>	<b>1.91</b>	<b>1.42</b>	<b>1.51</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>1.05</b>	<b>1.79</b>	<b>0.35</b>	<b>0.25</b>	<b>0.13</b>	<b>1.75</b>	<b>1.09</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.010	0.031	0.014	0.011	4	6	67%	0.010	0.023	0.008	0.58	0.003	0.023	0.006
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.20	0.41	0.35	0.39	4	4	100%	0.25	0.41	0.10	0.28	0.05	0.50	0.19
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	2400	49000	18075	10450	4	4	100%	3150	39100	21447	1.19	10724	52202	-16052
E.coli (CFU/100 ml)	130	3300	1245	775	4	4	100%	166	2700	1467	1.18	734	3580	-1090
Enterococci (CFU/100 ml)	3000	12000	6150	4800	4	4	100%	3480	9900	3995	0.65	1997	12506	-206

**Table E-13**  
**Summary Statistics for Stormwater at OF245 Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.434	0.069	0.055	79	81	98%	0.027	0.113	0.059	0.86	0.007	0.082	0.056
BOD (mg/L)	1.0	8.1	3.1	2.7	59	71	83%	1.0	5.8	1.7	0.55	0.2	3.5	2.7
Chloride (mg/L)	0.63	1260	144.2	70.6	79	79	100%	13.10	309	226	1.56	25.38	195	93.6
Conductivity (uS/cm)	46.8	6360	575	323	135	135	100%	100.5	1246	801	1.39	69.0	712	439
Hardness (mg CaCO3/L)	14.0	626	73.8	51.9	199	199	100%	26.2	145.2	73.2	0.99	5.2	84.1	63.6
pH (pH units)	5.6	8.4	7.0	7.0	199	199	100%	6.4	7.4	0.4	0.06	0.0	7.0	6.9
TSS (mg/L)	6.2	296	60.7	51.0	192	192	100%	18.2	114.2	44.4	0.73	3.2	67.1	54.4
Turbidity (NTU)	11.1	139.0	46.1	38.0	59	59	100%	17.0	82.0	28.4	0.62	3.7	53.5	38.7
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.034	1.010	0.203	0.143	92	92	100%	0.079	0.429	0.173	0.85	0.018	0.239	0.167
Phosphorus, Total (mg/L)	0.054	1.510	0.184	0.140	90	90	100%	0.072	0.315	0.174	0.94	0.018	0.221	0.148
Phosphate, Ortho (mg/L)	0.002	0.689	0.042	0.026	93	97	96%	0.012	0.073	0.072	1.71	0.007	0.056	0.027
Total Nitrogen (mg/L)	0.02	2.90	0.75	0.61	91	92	99%	0.29	1.42	0.49	0.65	0.05	0.85	0.65
<b>Metals</b>														
Cadmium (ug/L)	0.007	2.410	0.302	0.216	107	119	90%	0.076	0.520	0.345	1.14	0.032	0.365	0.240
Cadmium, Dissolved (ug/L)	0.005	1.850	0.134	0.075	93	119	78%	0.025	0.224	0.229	1.70	0.021	0.176	0.093
Copper (ug/L)	3.00	42.60	13.82	12.30	119	119	100%	6.15	23.94	7.55	0.55	0.69	15.19	12.44
Copper, Dissolved (ug/L)	0.02	26.10	3.75	3.03	116	118	98%	1.57	6.07	2.96	0.79	0.27	4.28	3.21
Lead (ug/L)	0.87	60.00	9.80	7.83	197	199	99%	2.48	18.90	8.59	0.88	0.61	11.00	8.60
Lead, Dissolved (ug/L)	0.010	6.270	0.504	0.280	120	199	60%	0.080	1.120	0.660	1.31	0.047	0.597	0.412
Mercury (ug/L)	0.0004	0.8700	0.0217	0.0250	55	199	28%	0.0030	0.0250	0.0642	2.96	0.0045	0.0307	0.0127
Mercury, Dissolved (ug/L)	0.0009	0.1080	0.0158	0.0250	10	199	5%	0.0009	0.0250	0.0141	0.89	0.0010	0.0178	0.0139
Zinc (ug/L)	27.7	585	133.2	105.5	198	198	100%	48.6	234	97.3	0.73	6.9	146.8	119.6
Zinc, Dissolved (ug/L)	0.8	395	54.8	37.7	197	198	99%	20.9	110.4	47.4	0.87	3.4	61.4	48.1
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	1.500	0.167	0.037	17	72	24%	0.009	0.485	0.271	1.62	0.032	0.231	0.103
Carbaryl	0.03	0.25	0.14	0.25	0	27	0%	0.03	0.25	0.11	0.79	0.02	0.19	0.10
Chlorpyrifos (ug/L)	0.003	0.754	0.026	0.009	3	92	3%	0.003	0.056	0.079	3.04	0.008	0.042	0.010
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	1	24	4%	0.005	0.005	0.001	0.21	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.001	1.143	0.027	0.011	134	196	68%	0.004	0.039	0.096	3.58	0.007	0.040	0.013
Acenaphthene (ug/L)	0.002	0.855	0.017	0.009	124	197	63%	0.004	0.026	0.061	3.68	0.004	0.025	0.008
Acenaphthylene (ug/L)	0.001	0.095	0.008	0.005	74	197	38%	0.002	0.014	0.012	1.44	0.001	0.010	0.007
Anthracene (ug/L)	0.002	0.289	0.011	0.005	79	197	40%	0.003	0.017	0.025	2.24	0.002	0.015	0.008
Fluorene (ug/L)	0.001	0.928	0.022	0.008	122	197	62%	0.003	0.032	0.076	3.53	0.005	0.032	0.011
Naphthalene (ug/L)	0.002	0.795	0.035	0.021	146	194	75%	0.007	0.060	0.068	1.97	0.005	0.044	0.025
Phenanthrene (ug/L)	0.002	1.650	0.061	0.034	188	197	95%	0.013	0.119	0.131	2.13	0.009	0.080	0.043
<b>Total LPAHs<sup>1</sup></b>	<b>0.007</b>	<b>4.612</b>	<b>0.148</b>	<b>0.084</b>	<b>195</b>	<b>195</b>	<b>100%</b>	<b>0.029</b>	<b>0.256</b>	<b>0.358</b>	<b>2.42</b>	<b>0.026</b>	<b>0.199</b>	<b>0.097</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.247	0.018	0.008	118	197	60%	0.003	0.049	0.026	1.46	0.002	0.021	0.014
Benzo(a)pyrene (ug/L)	0.001	0.133	0.018	0.011	133	197	68%	0.003	0.044	0.021	1.17	0.002	0.021	0.015
Benzo(b,k)fluoranthene (ug/L)	0.002	0.414	0.046	0.025	148	197	75%	0.006	0.121	0.056	1.21	0.004	0.054	0.038
Benzo(g,h,i)perylene (ug/L)	0.002	0.112	0.025	0.018	160	197	81%	0.004	0.059	0.023	0.93	0.002	0.028	0.022
Chrysene (ug/L)	0.002	0.420	0.041	0.017	160	197	81%	0.003	0.121	0.056	1.37	0.004	0.048	0.033
Dibenz(a,h)anthracene (ug/L)	0.002	0.027	0.005	0.004	46	197	23%	0.002	0.013	0.005	0.86	0.000	0.006	0.005
Fluoranthene (ug/L)	0.002	1.720	0.066	0.033	191	197	97%	0.012	0.146	0.131	2.00	0.009	0.084	0.047
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.058	0.014	0.009	125	197	63%	0.003	0.032	0.013	0.97	0.001	0.016	0.012
Pyrene (ug/L)	0.002	1.310	0.083	0.048	195	197	99%	0.015	0.190	0.118	1.43	0.008	0.099	0.066
Retene (ug/L)	0.003	0.021	0.011	0.011	22	23	96%	0.007	0.020	0.005	0.45	0.001	0.013	0.009
<b>Total HPAHs<sup>2</sup></b>	<b>0.011</b>	<b>4.393</b>	<b>0.306</b>	<b>0.173</b>	<b>197</b>	<b>197</b>	<b>100%</b>	<b>0.041</b>	<b>0.751</b>	<b>0.422</b>	<b>1.38</b>	<b>0.030</b>	<b>0.365</b>	<b>0.247</b>
<b>TOTAL PAHs</b>	<b>0.020</b>	<b>9.005</b>	<b>0.455</b>	<b>0.266</b>	<b>195</b>	<b>195</b>	<b>100%</b>	<b>0.079</b>	<b>1.023</b>	<b>0.748</b>	<b>1.65</b>	<b>0.054</b>	<b>0.561</b>	<b>0.349</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.20	31.00	2.33	1.34	169	195	87%	0.52	4.58	3.52	1.51	0.25	2.83	1.84
Butyl benzyl phthalate (ug/L)	0.085	290	9.186	0.270	83	197	42%	0.14	19.40	31.56	3.44	2.249	13.62	4.751
Diethyl phthalate (ug/L)	0.077	430	2.542	0.214	50	197	25%	0.130	0.500	30.6	12.04	2.181	6.844	-1.759
Dimethyl phthalate (ug/L)	0.016	1.100	0.256	0.175	13	196	7%	0.039	0.500	0.188	0.73	0.013	0.283	0.230
Di-n-butyl phthalate (ug/L)	0.104	1.650	0.471	0.500	97	197	49%	0.148	0.776	0.304	0.64	0.022	0.514	0.429
Di-n-Octyl phthalate (ug/L)	0.042	4.100	0.299	0.182	15	197	8%	0.042	0.500	0.369	1.23	0.026	0.351	0.247
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>593</b>	<b>13.89</b>	<b>1.83</b>	<b>190</b>	<b>197</b>	<b>96%</b>	<b>0.62</b>	<b>22.84</b>	<b>52.81</b>	<b>3.80</b>	<b>3.76</b>	<b>21.31</b>	<b>6.47</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.167	0.028	0.021	54	113	48%	0.010	0.047	0.026	0.92	0.002	0.033	0.023
<b>Total Petroleum Hydrocarbons</b>														
NWTPH-Diesel (mg/L)	0.02	0.33	0.06	0.05	10	68	15%	0.02	0.10	0.05	0.82	0.01	0.07	0.05
NWTPH-Gasoline (mg/L)	2.3	62.3	19.2	25.0	13	63	21%	2.3	25.0	11.9	0.62	1.5	22.2	16.2
NWTPH-Heavy Oil (mg/L)	0.03	1.10	0.36	0.34	58	68	85%	0.09	0.68	0.22	0.60	0.03	0.41	0.31
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	50	240000	14736.875	2300	64	64	100%	272	20200	37599	2.55	4700	24129	5345
E.coli (CFU/100 ml)	5	240000	38606	3500	7	7	100%	25	104400	88975	2.30	33629	120894	-43682
Enterococci (CFU/100 ml)	1500	820000	171771	48000	7	7	100%	2940	478000	298324	1.74	112756	447675	-104133
<b>BTEX</b>														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	42	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	42	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	42	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	42	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	0.5	0.1	0.1	3	42	7%	0.1	0.1	0.1	0.60	0.0	0.1	0.1

**Table E-13 (Cont'd)**  
**Summary Statistics for Stormwater at OF245 WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.029	0.066	0.049	0.051	9	9	100%	0.036	0.065	0.013	0.27	0.004	0.059	0.038
BOD (mg/L)	1.0	3.6	2.4	2.4	7	9	78%	1.0	3.4	0.9	0.40	0.3	3.1	1.7
Chloride (mg/L)	12.60	210.00	102.10	99.10	9	9	100%	35.24	182.00	61.45	0.60	20.48	149.34	54.86
Conductivity (uS/cm)	76.5	1530.0	530.2	417.0	11	11	100%	201.0	913.0	404.4	0.76	121.9	801.9	258.6
Hardness (mg CaCO3/L)	14.6	174.0	64.3	52.0	11	11	100%	33.6	109.0	43.8	0.68	13.2	93.7	34.8
pH (pH units)	6.6	8.0	7.2	7.1	11	11	100%	6.7	7.6	0.4	0.06	0.1	7.4	6.9
TSS (mg/L)	10.5	41.2	23.0	20.5	10	10	100%	13.4	34.5	9.7	0.42	3.1	30.0	16.1
Turbidity (NTU)	11.8	36.7	21.8	20.7	8	8	100%	14.6	29.3	7.7	0.35	2.7	28.2	15.4
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.064	0.147	0.098	0.091	10	10	100%	0.074	0.143	0.028	0.29	0.009	0.118	0.077
Phosphorus, Total (mg/L)	0.065	0.142	0.100	0.102	10	10	100%	0.067	0.129	0.027	0.27	0.009	0.120	0.081
Phosphate, Ortho (mg/L)	0.002	0.043	0.025	0.025	9	10	90%	0.018	0.036	0.011	0.44	0.004	0.033	0.017
Total Nitrogen (mg/L)	0.26	1.94	0.56	0.41	10	10	100%	0.29	0.80	0.50	0.89	0.16	0.92	0.20
<b>Metals</b>														
Cadmium (ug/L)	0.050	0.173	0.114	0.101	10	11	91%	0.071	0.167	0.041	0.36	0.012	0.141	0.086
Cadmium, Dissolved (ug/L)	0.020	0.111	0.053	0.046	7	11	64%	0.020	0.096	0.032	0.61	0.010	0.075	0.031
Copper (ug/L)	4.52	13.90	7.55	6.64	11	11	100%	4.99	11.40	2.81	0.37	0.85	9.44	5.66
Copper, Dissolved (ug/L)	0.23	4.48	2.48	2.53	11	11	100%	1.43	3.82	1.17	0.47	0.35	3.27	1.70
Lead (ug/L)	1.10	3.50	2.17	1.99	11	11	100%	1.64	2.86	0.64	0.30	0.19	2.60	1.74
Lead, Dissolved (ug/L)	0.054	0.249	0.119	0.102	9	11	82%	0.054	0.198	0.059	0.49	0.018	0.159	0.080
Mercury (ug/L)	0.0040	0.0040	0.0040	0.0040	0	11	0%	0.0040	0.0040	0.0000	0.00	0.0000	0.0040	0.0040
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	11	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	35.8	58.8	47.0	46.4	11	11	100%	36.0	56.1	8.0	0.17	2.4	52.4	41.6
Zinc, Dissolved (ug/L)	2.6	29.3	20.5	21.2	11	11	100%	19.0	25.7	6.8	0.33	2.0	25.1	16.0
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	11	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.041	0.014	0.010	7	11	64%	0.005	0.040	0.013	0.95	0.004	0.023	0.005
Acenaphthene (ug/L)	0.005	0.010	0.005	0.005	1	11	9%	0.005	0.005	0.002	0.29	0.000	0.006	0.004
Acenaphthylene (ug/L)	0.005	0.014	0.005	0.005	1	11	9%	0.005	0.005	0.003	0.53	0.001	0.007	0.003
Anthracene (ug/L)	0.003	0.011	0.005	0.006	1	11	9%	0.003	0.006	0.003	0.50	0.001	0.007	0.003
Fluorene (ug/L)	0.005	0.011	0.006	0.005	2	11	18%	0.005	0.010	0.002	0.41	0.001	0.007	0.004
Naphthalene (ug/L)	0.013	0.113	0.037	0.021	6	10	60%	0.013	0.094	0.036	0.99	0.011	0.062	0.011
Phenanthrene (ug/L)	0.004	0.037	0.020	0.020	8	11	73%	0.009	0.030	0.010	0.51	0.003	0.026	0.013
<b>Total LPAHs<sup>1</sup></b>	<b>0.041</b>	<b>0.163</b>	<b>0.078</b>	<b>0.068</b>	<b>10</b>	<b>10</b>	<b>100%</b>	<b>0.041</b>	<b>0.130</b>	<b>0.038</b>	<b>0.49</b>	<b>0.012</b>	<b>0.106</b>	<b>0.051</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.015	0.004	0.003	0	11	0%	0.003	0.003	0.003	0.86	0.001	0.006	0.002
Benzo(a)pyrene (ug/L)	0.002	0.033	0.008	0.005	8	11	73%	0.002	0.012	0.009	1.20	0.003	0.014	0.001
Benzo(b,k)fluoranthene (ug/L)	0.006	0.027	0.017	0.015	9	11	82%	0.012	0.027	0.006	0.37	0.002	0.022	0.013
Benzo(g,h,i)perylene (ug/L)	0.008	0.015	0.012	0.012	10	11	91%	0.011	0.013	0.002	0.15	0.001	0.013	0.011
Chrysene (ug/L)	0.004	0.042	0.013	0.011	8	11	73%	0.004	0.017	0.011	0.80	0.003	0.020	0.006
Dibenz(a,h)anthracene (ug/L)	0.003	0.016	0.004	0.003	0	11	0%	0.003	0.003	0.004	0.91	0.001	0.007	0.002
Fluoranthene (ug/L)	0.016	0.076	0.026	0.021	11	11	100%	0.018	0.026	0.017	0.65	0.005	0.037	0.014
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.012	0.006	0.006	6	11	55%	0.003	0.010	0.003	0.57	0.001	0.008	0.004
Pyrene (ug/L)	0.025	0.113	0.038	0.030	11	11	100%	0.026	0.037	0.025	0.66	0.008	0.055	0.021
Retene (ug/L)	0.003	0.016	0.009	0.009	10	11	91%	0.007	0.012	0.004	0.39	0.001	0.012	0.007
<b>Total HPAHs<sup>2</sup></b>	<b>0.075</b>	<b>0.345</b>	<b>0.125</b>	<b>0.110</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>0.084</b>	<b>0.140</b>	<b>0.075</b>	<b>0.60</b>	<b>0.023</b>	<b>0.176</b>	<b>0.075</b>
<b>TOTAL PAHs</b>	<b>0.135</b>	<b>0.415</b>	<b>0.205</b>	<b>0.183</b>	<b>10</b>	<b>10</b>	<b>100%</b>	<b>0.140</b>	<b>0.275</b>	<b>0.083</b>	<b>0.41</b>	<b>0.026</b>	<b>0.264</b>	<b>0.145</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.74	1.41	1.01	0.95	11	11	100%	0.79	1.30	0.21	0.21	0.06	1.15	0.87
Butyl benzyl phthalate (ug/L)	0.200	0.207	0.203	0.203	0	11	0%	0.201	0.206	0.002	0.01	0.001	0.205	0.202
Diethyl phthalate (ug/L)	0.155	0.161	0.157	0.157	0	11	0%	0.156	0.160	0.002	0.01	0.001	0.159	0.156
Dimethyl phthalate (ug/L)	0.168	0.349	0.188	0.172	1	11	9%	0.169	0.175	0.054	0.29	0.016	0.224	0.152
Di-n-butyl phthalate (ug/L)	0.458	1.650	1.210	1.340	11	11	100%	0.853	1.560	0.357	0.30	0.108	1.450	0.970
Di-n-Octyl phthalate (ug/L)	0.178	0.900	0.247	0.183	0	11	0%	0.180	0.185	0.217	0.88	0.065	0.393	0.101
<b>*Total Phthalates<sup>4</sup></b>	<b>1.76</b>	<b>2.62</b>	<b>2.21</b>	<b>2.24</b>	<b>11</b>	<b>11</b>	<b>100%</b>	<b>1.78</b>	<b>2.56</b>	<b>0.30</b>	<b>0.13</b>	<b>0.09</b>	<b>2.41</b>	<b>2.01</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.033	0.017	0.018	8	10	80%	0.009	0.026	0.009	0.51	0.003	0.023	0.011
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.05	0.05	0.05	0	4	0%	0.05	0.05	0.00	0.00	0.00	0.05	0.05
NWTPH-Heavy Oil (mg/L)	0.20	0.36	0.30	0.32	4	4	100%	0.23	0.36	0.07	0.24	0.04	0.42	0.18
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	5400	110000	35600	13500	4	4	100%	7080	81800	49789	1.40	24894	114825	-43625
E.coli (CFU/100 ml)	5	11000	4051	2600	4	4	100%	514	8750	4847	1.20	2424	11764	-3662
Enterococci (CFU/100 ml)	1500	49000	25600	25950	4	4	100%	2220	48700	26464	1.03	13232	67710	-16510

**Table E-14**  
**Summary Statistics for Stormwater at OF254 Water Years 2002-2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.006	0.175	0.066	0.054	53	54	98%	0.031	0.120	0.038	0.57	0.005	0.077	0.056
BOD (mg/L)	1.0	69.0	3.8	2.4	34	48	71%	1.0	4.1	9.7	2.55	1.4	6.6	1.0
Chloride (mg/L)	493	8000	2341	2220	55	55	100%	941	3718	1357	0.58	183.0	2707	1974
Conductivity (uS/cm)	4.9	23000	6228	5505	106	106	100%	2170	10750	3781	0.61	367.3	6956	5499
Hardness (mg CaCO3/L)	49.5	2380	587	495	165	165	100%	214.6	1088	372	0.63	28.9	644	529
pH (pH units)	6.2	8.1	7.1	7.1	165	165	100%	6.6	7.5	0.4	0.05	0.0	7.1	7.0
TSS (mg/L)	5.2	354	90.6	69.0	162	162	100%	29.6	183.3	68.3	0.75	5.4	101.2	80.0
Turbidity (NTU)	0.5	216	70.8	57.0	54	54	100%	21.4	135.0	49.9	0.70	6.8	84.4	57.2
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.036	0.287	0.142	0.132	61	61	100%	0.078	0.223	0.062	0.43	0.008	0.158	0.126
Phosphorus, Total (mg/L)	0.068	1.090	0.167	0.120	61	61	100%	0.085	0.287	0.155	0.93	0.020	0.207	0.128
Phosphate, Ortho (mg/L)	0.007	0.097	0.027	0.023	63	63	100%	0.012	0.042	0.017	0.61	0.002	0.032	0.023
Total Nitrogen (mg/L)	0.03	1.95	0.59	0.49	60	61	98%	0.30	1.08	0.33	0.57	0.04	0.67	0.50
<b>Metals</b>														
Cadmium (ug/L)	0.053	0.543	0.189	0.160	53	65	82%	0.091	0.314	0.102	0.54	0.013	0.214	0.164
Cadmium, Dissolved (ug/L)	0.005	0.273	0.095	0.089	55	64	86%	0.044	0.161	0.048	0.50	0.006	0.107	0.083
Copper (ug/L)	5.81	56.30	16.21	12.90	65	65	100%	7.94	29.44	10.11	0.62	1.25	18.72	13.71
Copper, Dissolved (ug/L)	0.53	11.30	2.95	2.23	65	65	100%	0.98	5.84	2.20	0.74	0.27	3.50	2.41
Lead (ug/L)	1.40	68.0	15.00	10.80	161	165	98%	4.00	32.64	12.50	0.83	0.97	16.92	13.08
Lead, Dissolved (ug/L)	0.012	12.20	1.003	0.253	110	164	67%	0.051	2.500	1.999	1.99	0.156	1.311	0.694
Mercury (ug/L)	0.0004	0.3070	0.0265	0.0250	69	165	42%	0.0040	0.0600	0.0324	1.22	0.0025	0.0315	0.0216
Mercury, Dissolved (ug/L)	0.0009	0.2110	0.0175	0.0250	5	165	3%	0.0009	0.0250	0.0206	1.18	0.0016	0.0207	0.0143
Zinc (ug/L)	27.6	427	121.1	95.8	165	165	100%	49.9	219.2	74.9	0.62	5.8	132.6	109.6
Zinc, Dissolved (ug/L)	5.1	239	44.5	31.8	165	165	100%	22.1	86.0	33.5	0.75	2.6	49.6	39.3
<b>Insecticides</b>														
2,4-D (ug/L)	0.009	1.000	0.091	0.029	20	40	50%	0.009	0.174	0.184	2.03	0.029	0.150	0.032
Carbaryl (ug/L)	0.03	0.25	0.18	0.25	0	23	0%	0.03	0.25	0.10	0.54	0.02	0.22	0.14
Chlorpyrifos (ug/L)	0.003	0.320	0.027	0.009	2	53	4%	0.003	0.059	0.045	1.67	0.006	0.040	0.015
Bifenthrin (ug/L)	0.000	0.005	0.005	0.005	1	20	5%	0.005	0.005	0.001	0.24	0.000	0.005	0.004
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.001	0.435	0.022	0.012	128	164	78%	0.004	0.037	0.044	2.02	0.003	0.029	0.015
Acenaphthene (ug/L)	0.002	0.352	0.016	0.008	96	164	59%	0.003	0.029	0.033	2.02	0.003	0.021	0.011
Acenaphthylene (ug/L)	0.001	0.070	0.010	0.005	71	164	43%	0.003	0.023	0.012	1.16	0.001	0.012	0.008
Anthracene (ug/L)	0.002	0.389	0.031	0.009	104	164	63%	0.004	0.077	0.055	1.78	0.004	0.039	0.022
Fluorene (ug/L)	0.001	0.159	0.019	0.010	110	164	67%	0.004	0.045	0.026	1.33	0.002	0.023	0.015
Naphthalene (ug/L)	0.002	0.126	0.025	0.020	120	163	74%	0.008	0.046	0.020	0.82	0.002	0.028	0.022
Phenanthrene (ug/L)	0.002	0.657	0.079	0.044	159	164	97%	0.017	0.183	0.093	1.19	0.007	0.093	0.064
<b>Total LPAHs<sup>1</sup></b>	<b>0.005</b>	<b>1.244</b>	<b>0.175</b>	<b>0.102</b>	<b>163</b>	<b>163</b>	<b>100%</b>	<b>0.041</b>	<b>0.393</b>	<b>0.200</b>	<b>1.14</b>	<b>0.016</b>	<b>0.206</b>	<b>0.144</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.001	0.915	0.060	0.019	137	164	84%	0.003	0.166	0.098	1.65	0.008	0.075	0.044
Benzo(a)pyrene (ug/L)	0.002	0.428	0.052	0.025	141	164	86%	0.005	0.141	0.065	1.26	0.005	0.062	0.042
Benzo(b,k)fluoranthene (ug/L)	0.005	1.662	0.140	0.065	145	164	88%	0.008	0.385	0.193	1.38	0.015	0.169	0.110
Benzo(g,h,i)perylene (ug/L)	0.002	0.253	0.046	0.030	147	164	90%	0.006	0.121	0.045	0.98	0.004	0.053	0.039
Chrysene (ug/L)	0.002	1.906	0.124	0.046	153	164	93%	0.009	0.323	0.199	1.61	0.016	0.155	0.093
Dibenz(a,h)anthracene (ug/L)	0.002	0.071	0.011	0.005	76	164	46%	0.002	0.028	0.011	1.07	0.001	0.012	0.009
Fluoranthene (ug/L)	0.003	3.964	0.213	0.078	161	164	98%	0.019	0.533	0.389	1.83	0.030	0.273	0.153
Indeno(1,2,3-cd)pyrene (ug/L)	0.002	0.239	0.031	0.019	135	164	82%	0.003	0.078	0.035	1.12	0.003	0.037	0.026
Pyrene (ug/L)	0.002	4.120	0.216	0.084	161	164	98%	0.025	0.558	0.386	1.79	0.030	0.275	0.156
Retene (ug/L)	0.008	0.027	0.015	0.014	19	19	100%	0.009	0.025	0.006	0.40	0.001	0.018	0.012
<b>Total HPAHs<sup>2</sup></b>	<b>0.027</b>	<b>13.558</b>	<b>0.880</b>	<b>0.373</b>	<b>164</b>	<b>164</b>	<b>100%</b>	<b>0.083</b>	<b>2.361</b>	<b>1.392</b>	<b>1.58</b>	<b>0.109</b>	<b>1.095</b>	<b>0.666</b>
<b>TOTAL PAHs</b>	<b>0.040</b>	<b>14.681</b>	<b>1.059</b>	<b>0.475</b>	<b>163</b>	<b>163</b>	<b>100%</b>	<b>0.123</b>	<b>2.678</b>	<b>1.563</b>	<b>1.48</b>	<b>0.122</b>	<b>1.301</b>	<b>0.817</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.14	10.20	2.13	1.47	135	164	82%	0.50	5.34	1.92	0.90	0.15	2.43	1.84
Butyl benzyl phthalate (ug/L)	0.085	6.10	0.427	0.236	32	164	20%	0.144	0.501	0.580	1.36	0.045	0.516	0.338
Diethyl phthalate (ug/L)	0.070	120.0	1.227	0.198	35	164	21%	0.128	0.500	9.454	7.71	0.738	2.685	-0.231
Dimethyl phthalate (ug/L)	0.016	3.200	0.320	0.202	25	164	15%	0.069	0.500	0.374	1.17	0.029	0.378	0.262
Di-n-butyl phthalate (ug/L)	0.100	1.300	0.405	0.455	73	164	45%	0.151	0.505	0.164	0.41	0.013	0.431	0.380
Di-n-Octyl phthalate (ug/L)	0.042	4.500	0.370	0.218	29	162	18%	0.042	0.500	0.460	1.24	0.036	0.441	0.298
<b>*Total Phthalates<sup>4</sup></b>	<b>0.00</b>	<b>123.20</b>	<b>3.56</b>	<b>1.82</b>	<b>155</b>	<b>163</b>	<b>95%</b>	<b>0.31</b>	<b>7.38</b>	<b>9.86</b>	<b>2.77</b>	<b>0.77</b>	<b>5.08</b>	<b>2.03</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.263	0.031	0.020	22	71	31%	0.010	0.046	0.042	1.38	0.005	0.041	0.021
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.02	0.16	0.07	0.05	19	49	39%	0.02	0.14	0.04	0.58	0.01	0.09	0.06
NWTPH-Gasoline (mg/L)	2.3	25.0	18.3	25.0	0	44	0%	2.3	25.0	10.5	0.57	1.6	21.5	15.1
NWTPH-Heavy Oil (mg/L)	0.03	4.20	0.75	0.55	46	49	94%	0.32	1.30	0.70	0.93	0.10	0.96	0.55
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	220	170000	11972	3150	48	48	100%	330	16000	27597	2.31	3983	19986	3959
<i>E. coli</i> (CFU/100 ml)	1	110000	22284	2500	5	6	83%	850.5	63500	43420	1.95	17726	67850	-23283
<i>Enterococci</i> (CFU/100 ml)	2200	410000	75643	13000	7	7	100%	3280	204200	149139	1.97	56369	213574	-62288
<b>BTEX</b>														
Benzene (ug/L)	0.1	0.1	0.1	0.1	0	44	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Ethylbenzene (ug/L)	0.1	0.1	0.1	0.1	0	44	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
m,p-Xylene (ug/L)	0.2	0.2	0.2	0.2	0	44	0%	0.2	0.2	0.0	0.00	0.0	0.2	0.2
o-Xylene (ug/L)	0.1	0.1	0.1	0.1	0	44	0%	0.1	0.1	0.0	0.00	0.0	0.1	0.1
Toluene (ug/L)	0.1	1.0	0.2	0.1	7	44	16%	0.1	0.3	0.2	1.10	0.0	0.2	0.1

**Table E-14 (Cont'd)**  
**Summary Statistics for Stormwater at OF254 WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	0.046	0.110	0.073	0.070	7	7	100%	0.047	0.101	0.024	0.33	0.009	0.095	0.050
BOD (mg/L)	1.0	2.6	2.0	2.1	5	6	83%	1.5	2.5	0.6	0.27	0.2	2.6	1.4
Chloride (mg/L)	705.00	8000.00	2649.29	1690.00	7	7	100%	1146.00	5120.00	2473.79	0.93	935.00	4937.16	361.41
Conductivity (uS/cm)	2710.0	23000.0	8823.3	5530.0	9	9	100%	4430.0	14200.0	6142.5	0.70	2047.5	13544.8	4101.8
Hardness (mg CaCO3/L)	258.0	2380.0	903.6	542.0	9	9	100%	426.8	1564.0	657.5	0.73	219.2	1408.9	398.2
pH (pH units)	6.9	7.5	7.1	7.1	9	9	100%	6.9	7.3	0.2	0.03	0.1	7.3	7.0
TSS (mg/L)	12.7	98.3	52.5	44.3	9	9	100%	26.9	86.2	27.1	0.52	9.0	73.3	31.7
Turbidity (NTU)	22.3	135.0	60.1	52.9	7	7	100%	27.2	98.9	37.6	0.63	14.2	94.9	25.3
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.078	0.173	0.105	0.096	7	7	100%	0.084	0.137	0.032	0.30	0.012	0.135	0.076
Phosphorus, Total (mg/L)	0.073	0.150	0.106	0.098	7	7	100%	0.080	0.133	0.026	0.24	0.010	0.129	0.082
Phosphate, Ortho (mg/L)	0.010	0.097	0.026	0.017	8	8	100%	0.011	0.047	0.029	1.11	0.010	0.051	0.002
Total Nitrogen (mg/L)	0.25	0.65	0.38	0.31	7	7	100%	0.28	0.53	0.14	0.36	0.05	0.51	0.25
<b>Metals</b>														
Cadmium (ug/L)	0.077	0.192	0.124	0.130	8	9	89%	0.086	0.165	0.036	0.29	0.012	0.151	0.096
Cadmium, Dissolved (ug/L)	0.048	0.090	0.066	0.062	8	8	100%	0.053	0.088	0.015	0.23	0.005	0.079	0.053
Copper (ug/L)	7.80	41.50	17.64	13.70	9	9	100%	8.74	37.10	12.41	0.70	4.14	27.18	8.10
Copper, Dissolved (ug/L)	1.68	3.79	2.58	2.22	9	9	100%	1.79	3.30	0.71	0.28	0.24	3.13	2.03
Lead (ug/L)	1.40	7.00	4.55	4.45	9	9	100%	2.34	6.59	1.92	0.42	0.64	6.02	3.08
Lead, Dissolved (ug/L)	0.108	2.040	0.526	0.164	8	8	100%	0.122	1.246	0.674	1.28	0.238	1.089	-0.037
Mercury (ug/L)	0.0040	0.0040	0.0040	0.0040	0	9	0%	0.0040	0.0040	0.0000	0.00	0.0000	0.0040	0.0040
Mercury, Dissolved (ug/L)	0.0045	0.0045	0.0045	0.0045	0	9	0%	0.0045	0.0045	0.0000	0.00	0.0000	0.0045	0.0045
Zinc (ug/L)	27.6	72.1	54.8	59.4	9	9	100%	36.6	69.9	14.7	0.27	4.9	66.1	43.5
Zinc, Dissolved (ug/L)	22.6	29.7	25.9	25.2	9	9	100%	24.0	29.6	2.4	0.09	0.8	27.7	24.0
<b>Insecticides</b>														
Bifenthrin (ug/L)	0.005	0.005	0.005	0.005	0	9	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.045	0.019	0.015	7	9	78%	0.005	0.043	0.015	0.76	0.005	0.030	0.008
Acenaphthene (ug/L)	0.005	0.014	0.006	0.005	1	9	11%	0.005	0.007	0.003	0.50	0.001	0.008	0.004
Acenaphthylene (ug/L)	0.005	0.013	0.005	0.005	1	9	11%	0.005	0.006	0.003	0.52	0.001	0.008	0.003
Anthracene (ug/L)	0.003	0.015	0.007	0.006	3	9	33%	0.003	0.013	0.004	0.60	0.001	0.010	0.004
Fluorene (ug/L)	0.005	0.011	0.005	0.005	1	9	11%	0.005	0.006	0.002	0.39	0.001	0.007	0.004
Naphthalene (ug/L)	0.013	0.047	0.024	0.018	4	8	50%	0.013	0.039	0.013	0.55	0.005	0.035	0.013
Phenanthrene (ug/L)	0.009	0.050	0.029	0.032	7	9	78%	0.009	0.043	0.014	0.49	0.005	0.040	0.018
<b>Total LPAHs<sup>1</sup></b>	<b>0.042</b>	<b>0.126</b>	<b>0.074</b>	<b>0.077</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.043</b>	<b>0.098</b>	<b>0.028</b>	<b>0.38</b>	<b>0.010</b>	<b>0.097</b>	<b>0.050</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.003	0.031	0.014	0.014	6	9	67%	0.003	0.021	0.008	0.62	0.003	0.020	0.007
Benzo(a)pyrene (ug/L)	0.002	0.035	0.015	0.014	7	9	78%	0.002	0.025	0.011	0.74	0.004	0.024	0.007
Benzo(b,k)fluoranthene (ug/L)	0.020	0.117	0.069	0.070	9	9	100%	0.031	0.115	0.035	0.50	0.012	0.096	0.043
Benzo(g,h,i)perylene (ug/L)	0.010	0.058	0.026	0.023	9	9	100%	0.017	0.036	0.013	0.51	0.004	0.037	0.016
Chrysene (ug/L)	0.009	0.065	0.032	0.031	9	9	100%	0.011	0.063	0.020	0.62	0.007	0.048	0.017
Dibenz(a,h)anthracene (ug/L)	0.003	0.016	0.005	0.003	1	9	11%	0.003	0.009	0.004	0.87	0.001	0.008	0.002
Fluoranthene (ug/L)	0.015	0.116	0.052	0.048	9	9	100%	0.022	0.082	0.031	0.59	0.010	0.075	0.028
Indeno(1,2,3-cd)pyrene (ug/L)	0.007	0.022	0.014	0.014	8	9	89%	0.010	0.020	0.005	0.32	0.002	0.018	0.011
Pyrene (ug/L)	0.020	0.143	0.065	0.069	9	9	100%	0.034	0.090	0.036	0.55	0.012	0.092	0.037
Retene (ug/L)	0.008	0.025	0.014	0.014	9	9	100%	0.008	0.021	0.006	0.40	0.002	0.019	0.010
<b>Total HPAHs<sup>2</sup></b>	<b>0.093</b>	<b>0.560</b>	<b>0.292</b>	<b>0.291</b>	<b>9</b>	<b>9</b>	<b>100%</b>	<b>0.163</b>	<b>0.402</b>	<b>0.133</b>	<b>0.46</b>	<b>0.044</b>	<b>0.394</b>	<b>0.190</b>
<b>TOTAL PAHs</b>	<b>0.136</b>	<b>0.449</b>	<b>0.332</b>	<b>0.332</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.218</b>	<b>0.442</b>	<b>0.109</b>	<b>0.33</b>	<b>0.038</b>	<b>0.423</b>	<b>0.241</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/L)	0.37	1.55	0.96	1.01	9	9	100%	0.64	1.29	0.34	0.36	0.11	1.23	0.70
Butyl benzyl phthalate (ug/L)	0.200	0.209	0.205	0.204	0	9	0%	0.202	0.209	0.003	0.02	0.001	0.207	0.202
Diethyl phthalate (ug/L)	0.157	0.410	0.187	0.158	1	9	11%	0.157	0.212	0.084	0.45	0.028	0.251	0.122
Dimethyl phthalate (ug/L)	0.169	0.176	0.172	0.172	0	9	0%	0.170	0.176	0.003	0.02	0.001	0.175	0.170
Di-n-butyl phthalate (ug/L)	0.148	0.596	0.330	0.153	4	9	44%	0.148	0.595	0.217	0.66	0.072	0.497	0.163
Di-n-Octyl phthalate (ug/L)	0.179	0.900	0.263	0.182	0	9	0%	0.180	0.329	0.239	0.91	0.080	0.446	0.079
<b>*Total Phthalates<sup>4</sup></b>	<b>0.37</b>	<b>2.09</b>	<b>1.26</b>	<b>1.22</b>	<b>9</b>	<b>9</b>	<b>100%</b>	<b>0.88</b>	<b>1.66</b>	<b>0.46</b>	<b>0.36</b>	<b>0.15</b>	<b>1.61</b>	<b>0.91</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	0.004	0.150	0.031	0.013	5	8	63%	0.008	0.063	0.049	1.57	0.017	0.072	-0.010
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.05	0.16	0.08	0.05	1	4	25%	0.05	0.13	0.06	0.71	0.03	0.17	-0.01
NWTPH-Heavy Oil (mg/L)	0.66	2.90	1.35	0.93	4	4	100%	0.73	2.32	1.04	0.77	0.52	3.01	-0.30
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	3300	79000	30175	19200	4	4	100%	3930	65200	35251	1.17	17626	86267	-25917
E.coli (CFU/100 ml)	1	17000	5500	2500	3	4	75%	511	12890	7784	1.42	3892	17886	-6886
Enterococci (CFU/100 ml)	2200	67000	27050	19500	4	4	100%	5440	54700	28355	1.05	14178	72169	-18069



**Table E-15**  
**Summary Statistics for Stormwater Sediment at OF230 FD3New WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	2.64	14	7	6	21	21	100%	3	11	3	0.46	1	8	5
Total Solids (%)	30.1	65	51	51	21	21	100%	41	63	10	0.19	2	56	47
Total Volatile Solids (%)	6.1	22	13	11	8	8	100%	7	22	6	0.47	2	18	8
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	543	1560	1034	1110	7	7	100%	622	1512	402	0.39	152	1406	662
<b>Metals</b>														
Cadmium (mg/Kg dry)	0.286	0.926	0.535	0.502	7	7	100%	0.355	0.733	0.203	0.38	0.077	0.723	0.347
Copper (mg/Kg dry)	48.2	132	79	81	7	7	100%	54	105	27.7	0.35	10	105	53
Lead (mg/Kg dry)	56.9	1420.0	208.8	143.5	20	20	100%	84.5	236	291	1.39	65.0	344.9	72.8
Mercury (mg/Kg dry)	0.0328	0.827	0.179	0.124	20	20	100%	0.050	0.337	0.203	1.13	0.045	0.274	0.084
Zinc (mg/Kg dry)	225	3200	632	440	20	20	100%	307	832	631	1.00	141	927	337
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	7.2	960	168	120	18	21	86%	10.0	260	205	1.22	45	261	75
NWTPH-Heavy Oil (mg/Kg)	25	8300	3628	3300	21	21	100%	1100	6100	2107	0.58	460	4587	2669
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	20.5	310	94	72	16	21	76%	25	185	76	0.80	16	129	60
Acenaphthene (ug/Kg)	6.5	350	128	127	19	21	90%	38	263	88	0.69	19	168	88
Acenaphthylene (ug/Kg)	14	93	44	40	11	21	52%	19	82	23	0.52	5	54	34
Anthracene (ug/Kg)	26	640	298	320	20	21	95%	59	450	163	0.55	36	372	223
Fluorene (ug/Kg)	24	577	178	170	20	21	95%	45	310	126	0.71	28	235	121
Naphthalene (ug/Kg)	45	480	136	120	21	21	100%	59	200	101	0.74	22	182	91
Phenanthrene (ug/Kg)	238	5400	2381	2400	21	21	100%	615	4300	1333	0.56	291	2988	1774
<b>Total LPAHs</b>	<b>406</b>	<b>6935</b>	<b>3166</b>	<b>3370</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>824</b>	<b>5390</b>	<b>1737</b>	<b>0.55</b>	<b>379</b>	<b>3957</b>	<b>2375</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	128	3400	1580	1700	21	21	100%	255	2600	903	0.57	197	1991	1169
Benzo(a)pyrene (ug/Kg)	253	5870	1800	1600	21	21	100%	293	2800	1257	0.70	274	2373	1228
Benzo(b,k)fluoranthene (ug/Kg)	78	3000	1431	1200	21	21	100%	305	3000	968	0.68	211	1872	991
Benzo(g,h,i)perylene (ug/Kg)	641	17900	4810	4530	21	21	100%	1060	7200	3765	0.78	822	6524	3096
Chrysene (ug/Kg)	283	5000	2302	2310	21	21	100%	372	3600	1235	0.54	270	2864	1740
Dibenz(a,h)anthracene (ug/Kg)	22	2700	433	342	18	21	86%	45	540	574	1.33	125	694	171
Fluoranthene (ug/Kg)	368	6800	3621	4000	21	21	100%	767	5900	1907	0.53	416	4489	2753
Indeno(1,2,3-c,d)pyrene (ug/Kg)	122	4260	1399	1300	21	21	100%	285	2500	1021	0.73	223	1864	934
Pyrene (ug/Kg)	388	9400	4172	4500	21	21	100%	578	7200	2516	0.60	549	5317	3026
Retene	31	42	37	37	2	2	100%	32	41	8	0	6	106	-33
<b>Total HPAHs</b>	<b>2625</b>	<b>45680</b>	<b>21547</b>	<b>21400</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>3488</b>	<b>36700</b>	<b>12162</b>	<b>0.56</b>	<b>2654</b>	<b>27083</b>	<b>16011</b>
<b>Total PAHs</b>	<b>3031</b>	<b>49053</b>	<b>24713</b>	<b>24780</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>4312</b>	<b>40500</b>	<b>13513</b>	<b>0.55</b>	<b>2949</b>	<b>30864</b>	<b>18562</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	3530	43000	16726	15300	21	21	100%	4700	31000	11548	0.69	2520	21982	11469
Butyl benzyl phthalate (ug/Kg)	42	4700	1012	606	20	21	95%	360	1500	1022	1.01	223	1477	547
Diethyl phthalate (ug/Kg)	17	170	46	46	7	21	33%	19	50	33	0.72	7	60	31
Dimethyl phthalate (ug/Kg)	3	1200	138	50	13	21	62%	9	199	258	1.87	56	256	20
Di-n-butyl phthalate (ug/Kg)	16	2400	437	250	20	21	95%	57	1000	546	1.25	119	686	189
Di-n-Octyl phthalate (ug/Kg)	7	9290	1696	1000	17	21	81%	17	3730	2119	1.25	462	2661	732
<b>Total Phthalates</b>	<b>3603</b>	<b>48810</b>	<b>19977</b>	<b>17970</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>5626</b>	<b>36160</b>	<b>13937</b>	<b>0.70</b>	<b>3041</b>	<b>26321</b>	<b>13633</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	5	142	32	20	8	8	100%	7	59	45	1.43	16	69	-6
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.32	40	8.1	4.50	1.00	21	5%	1	25	11	1.35	2	13	3
Aroclor-1221 (ug/Kg)	0.32	49	9.5	4.50	2.00	21	10%	1	31	14	1.43	3	16	3
Aroclor-1232 (ug/Kg)	0.32	74	10.7	4.50	2.00	21	10%	1	31	18	1.66	4	19	3
Aroclor-1242 (ug/Kg)	0.32	40	8.2	3.00	1.00	21	5%	0	25	11	1.36	2	13	3
Aroclor-1248 (ug/Kg)	0.32	40	8.8	4.35	1.00	21	5%	0	25	11	1.25	2	14	4
Aroclor-1254 (ug/Kg)	0.40	581	193	119	13.0	21	62%	1	510	198	1.02	43	283	103
Aroclor-1260 (ug/Kg)	0.32	910	87	10	6.0	21	29%	1	220	208	2.39	45	182	-8
<b>TOTAL PCBs</b>	<b>0</b>	<b>910</b>	<b>276</b>	<b>220</b>	<b>15</b>	<b>21</b>	<b>71%</b>	<b>0</b>	<b>581</b>	<b>270</b>	<b>0.98</b>	<b>59</b>	<b>399</b>	<b>154</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	21	33	27	27	2	2	100%	22	32	8	0.31	6	103	-49
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	3.50	19	11.3	11.25	1.00	2	50%	5	17	11	0.97	8	110	-87
4-Methylphenol (ug/Kg dry)	85.00	2300	861.5	530.50	4.00	4	100%	96	1892	1037	1.20	519	2512	-789
Pentachlorophenol (ug/Kg dry)	149.00	830	489.5	489.50	2.00	2	100%	217	762	482	0.98	341	4816	-3837

**NPDES Sediment Trap Locations**

1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.

2 - Total HPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.

3 - Total PAHs is the sum of the LPAHs and HPAHs.

4 - Total value for PCBs is the sum of detected values only.

5- Total phthalates is the sum of detected values only.

6- The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up construction for this project and will re-evaluate possible locations with similar drainage areas and replace this upline trap in early 2023.

7- Due to insufficient sample size the silt and clay percentage is reported as combined.

Bold – The analyte was present in the sample.

U – The analyte was not detected at or above the reported value.

UU – The analyte was not detected at or above the reported estimated value.

J – The analyte was positively identified. The associated value is an estimate.

NJ - There is evidence the analyte is present. The associated value is an estimate.

E - Estimated above the calibration curve.

**Table E-16**  
**Summary Statistics for Stormwater Sediment at OF235 FD6 WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	3.45	8.37	5.63	5.59	21	21	100%	4.02	7.58	1.37	0.24	0.30	6.26	5.00
Total Solids (%)	54.5	72.8	63.5	62.6	21	21	100%	56.5	70.7	5.4	0.09	1.2	66.0	61.0
Total Volatile Solids (%)	10.4	14.7	12.7	12.6	8	8	100%	11.0	14.5	1.5	0.12	0.5	13.9	11.4
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	549	1180	883	899	8	8	100%	610	1173	238	0.27	84	1083	684
<b>Metals</b>														
Cadmium (mg/Kg dry)	0.057	0.819	0.465	0.575	10	10	100%	0.064	0.733	0.283	0.61	0.089	0.667	0.262
Copper (mg/Kg dry)	84.4	173	127	131	10	10	100%	91	151	26	0.21	8	146	108
Lead (mg/Kg dry)	88.2	286.0	151.5	144.0	21	21	100%	96.4	202.0	44.5	0.29	9.7	171.7	131.2
Mercury (mg/Kg dry)	0.0479	1.350	0.142	0.078	21	21	100%	0.051	0.109	0.279	1.97	0.061	0.269	0.015
Zinc (mg/Kg dry)	219	789	433	377	21	21	100%	296	628	149	0.34	33	501	366
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	10	1000	166	130	18	21	86%	41	230	203	1.22	44	258	74
NWTPH-Heavy Oil (mg/Kg)	1600	4700	3038	2600	21	21	100%	2100	4500	966	0.32	211	3478	2599
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	25	150	74	65	15	21	71%	38	119	35	0.47	7.5	89	58
Acenaphthene (ug/Kg)	18	270	68	50	15	21	71%	22	120	57	0.84	12.4	94	42
Acenaphthylene (ug/Kg)	8.5	179	37	28	6	21	29%	11	50	36	0.97	7.9	54	21
Anthracene (ug/Kg)	35	430	183	170	21	21	100%	50	352	114	0.63	24.9	235	130
Fluorene (ug/Kg)	23	270	88	58	16	21	76%	29	165	64	0.73	14.0	117	59
Naphthalene (ug/Kg)	25	251	89	79	15	21	71%	48	130	50	0.56	11.0	112	66
Phenanthrene (ug/Kg)	263	2400	1056	966	21	21	100%	319	1650	546	0.52	119.2	1305	808
<b>Total LPAHs</b>	<b>477</b>	<b>3550</b>	<b>1539</b>	<b>1393</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>673</b>	<b>2330</b>	<b>760</b>	<b>0.49</b>	<b>166</b>	<b>1885</b>	<b>1193</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	120	1300	606	550	21	21	100%	216	1050	320	0.53	70	751	460
Benzo(a)pyrene (ug/Kg)	184	1100	598	560	21	21	100%	273	962	272	0.45	59	722	474
Benzo(b,k)fluoranthene (ug/Kg)	176	1600	514	343	21	21	100%	205	1000	375	0.73	82	685	343
Benzo(g,h,i)perylene (ug/Kg)	439	2700	1354	1300	21	21	100%	570	2400	666	0.49	145	1657	1051
Chrysene (ug/Kg)	297	1800	948	990	21	21	100%	349	1660	455	0.48	99	1155	741
Dibenz(a,h)anthracene (ug/Kg)	15.5	900	125	75	16	21	76%	33	202	187	1.49	41	210	40
Fluoranthene (ug/Kg)	432	2650	1359	1200	21	21	100%	611	2330	639	0.47	139	1650	1068
Indeno(1,2,3-c,d)pyrene (ug/Kg)	87	930	361	315	20	21	95%	170	622	201	0.56	44	452	269
Pyrene (ug/Kg)	560	4200	1862	1900	21	21	100%	654	2900	1023	0.55	223	2328	1397
Retene	73	119	96	96	2	2	100%	78	114	33	0.34	23	388	-196
<b>Total HPAHs</b>	<b>2914</b>	<b>14070</b>	<b>7846</b>	<b>7631</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>3818</b>	<b>11612</b>	<b>3305</b>	<b>0.42</b>	<b>721</b>	<b>9350</b>	<b>6341</b>
<b>Total PAHs</b>	<b>3390</b>	<b>17620</b>	<b>9385</b>	<b>9529</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>4491</b>	<b>13942</b>	<b>3995</b>	<b>0.43</b>	<b>872</b>	<b>11203</b>	<b>7566</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	1600	22000	12704	13000	21	21	100%	6550	19000	5124	0.40	1118	15036	10372
Butyl benzyl phthalate (ug/Kg)	267	3800	1237	1200	21	21	100%	550	2000	780	0.63	170	1592	882
Diethyl phthalate (ug/Kg)	14	890	39	35	5	21	24%	15	82	24	0.62	5	50	28
Dimethyl phthalate (ug/Kg)	43	310	105	81	17	21	81%	50	230	71	0.68	16	138	73
Di-n-butyl phthalate (ug/Kg)	41	370	187	170	20	21	95%	55	310	99	0.53	22	232	141
Di-n-Octyl phthalate (ug/Kg)	14.5	2800	875	945	14	21	67%	22	1890	870	0.99	190	1271	479
<b>Total Phthalates</b>	<b>2960</b>	<b>28880</b>	<b>15095</b>	<b>16670</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>7237</b>	<b>20940</b>	<b>6006</b>	<b>0.40</b>	<b>1311</b>	<b>17829</b>	<b>12361</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	7	24	14	14	8	8	100%	8	23	6	0.44	2	20	9
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.32	40	8.4	4.50	1.00	21	5%	1	24	11	1.29	2	13	3
Aroclor-1221 (ug/Kg)	0.32	40	8.6	4.75	1.00	21	5%	1	24	11	1.25	2	14	4
Aroclor-1232 (ug/Kg)	0.32	40	8.6	4.75	1.00	21	5%	1	24	11	1.26	2	13	4
Aroclor-1242 (ug/Kg)	0.32	420	28.4	4.40	2.00	21	10%	1	33	90	3.19	20	70	-13
Aroclor-1248 (ug/Kg)	0.32	40	8.9	4.40	1.00	21	5%	1	24	11	1.23	2	14	4
Aroclor-1254 (ug/Kg)	0.50	280	36	19	9.0	21	43%	1	53	62	1.70	13	64	8
Aroclor-1260 (ug/Kg)	0.32	44	12	6	3.0	21	14%	1	40	15	1.22	3	19	5
<b>TOTAL PCBs</b>	<b>0</b>	<b>420</b>	<b>54</b>	<b>0</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>0</b>	<b>110</b>	<b>106</b>	<b>1.97</b>	<b>23</b>	<b>102</b>	<b>6</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	6	41	24	24	2	2	100%	10	38	25	1.05	18	246	-199
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	19.00	67	32.6	25.00	2.00	5	40%	19	53	20	0.62	9	58	8
4-Methylphenol (ug/Kg dry)	44.00	440	215.1	175.00	8.00	8	100%	83	389	144	0.67	51	336	94
Pentachlorophenol (ug/Kg dry)	5.50	17800	4497.0	91.25	2.00	4	50%	12	12507	8869	1.97	4434	18609	-9615

**NPDES Sediment Trap Locations**

- 1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.
  - 2 - Total HPAHs is the sum of the concentration of non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.
  - 3 - Total PAHs is the sum of the LPAHs and HPAHs.
  - 4 - Total value for PCBs is the sum of detected values only.
  - 5 - Total phthalates is the sum of detected values only.
  - 6 - The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up construction for this project and will re-evaluate possible locations with similar drainage areas and replace this upline trap in early 2023.
  - 7 - Due to insufficient sample size the silt and clay percentage is reported as combined.
- Bold – The analyte was present in the sample.  
U – The analyte was not detected at or above the reported value.  
UU – The analyte was not detected at or above the reported estimated value.  
J – The analyte was positively identified. The associated value is an estimate.  
NJ - There is evidence the analyte is present. The associated value is an estimate.  
E - Estimated above the calibration curve.

**Table E-17**  
**Summary Statistics for Stormwater Sediment at OF237A FD2 WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	2.86	17.0	6.9	6.0	21	21	100%	4.1	11.4	3.5	0.51	0.8	8.5	5.3
Total Solids (%)	48.6	91.7	61.6	61.0	21	21	100%	54.0	66.4	8.6	0.14	1.9	65.5	57.6
Total Volatile Solids (%)	8.8	18.7	13.5	13.7	8	8	100%	10.3	16.1	3.0	0.22	1.0	16.0	11.0
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	584	1880	1016	867	8	8	100%	642	1467	427	0.42	151	1373	659
<b>Metals</b>														
Cadmium (mg/Kg dry)	0.399	0.853	0.577	0.538	9	9	100%	0.405	0.772	0.162	0.280	0.054	0.701	0.452
Copper (mg/Kg dry)	57.7	100	79	70	9	9	100%	63	100	16	0.20	5	91	66
Lead (mg/Kg dry)	50.9	114.0	83.4	80.8	21	21	100%	64.6	104.0	18.0	0.22	3.9	91.6	75.2
Mercury (mg/Kg dry)	0.029	0.129	0.067	0.066	21	21	100%	0.046	0.089	0.023	0.35	0.005	0.077	0.056
Zinc (mg/Kg dry)	220	492	348	327	21	21	100%	267	473	78	0.22	17	383	312
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	9.5	780	143	130	19	21	90%	42	170	154	1.08	34	213	73
NWTPH-Heavy Oil (mg/Kg)	1400	4300	2781	2500	21	21	100%	2000	3900	861	0.31	188	3173	2389
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	2.5	184	72	54	14	21	67%	34	140	44	0.61	10	92	52
Acenaphthene (ug/Kg)	11	300	94	66	19	21	90%	23	190	73	0.77	16	127	61
Acenaphthylene (ug/Kg)	2.5	50	30	28	8	21	38%	14	50	15	0.50	3	37	23
Anthracene (ug/Kg)	43	890	334	319	21	21	100%	115	610	214	0.64	47	431	236
Fluorene (ug/Kg)	18	270	139	130	21	21	100%	45	250	77	0.55	17	174	104
Naphthalene (ug/Kg)	13	220	103	110	19	21	90%	34	140	48	0.46	10	124	81
Phenanthrene (ug/Kg)	247	4600	2241	2190	21	21	100%	852	4100	1263	0.56	276	2816	1666
<b>Total LPAHs</b>	<b>418</b>	<b>16513</b>	<b>3637</b>	<b>3040</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>1084</b>	<b>5850</b>	<b>3366</b>	<b>0.93</b>	<b>735</b>	<b>5169</b>	<b>2105</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	194	3700	1764	1600	21	21	100%	447	3000	997	0.57	218	2217	1310
Benzo(a)pyrene (ug/Kg)	260	3300	1733	1710	21	21	100%	357	3000	881	0.51	192	2134	1332
Benzo(b,k)fluoranthene (ug/Kg)	180	9300	1708	1400	21	21	100%	291	2700	1929	1.13	421	2586	830
Benzo(g,h,i)perylene (ug/Kg)	721	8500	4338	4220	21	21	100%	817	7800	2373	0.55	518	5419	3258
Chrysene (ug/Kg)	305	6900	2664	2500	21	21	100%	659	4300	1602	0.60	350	3393	1934
Dibenz(a,h)anthracene (ug/Kg)	37	2800	480	360	20	21	95%	72	728	592	1.23	129	750	211
Fluoranthene (ug/Kg)	671	7700	3638	3750	21	21	100%	1270	5400	1713	0.47	374	4418	2858
Indeno(1,2,3-c,d)pyrene (ug/Kg)	205	2800	1297	1300	21	21	100%	240	2100	686	0.53	150	1610	985
Pyrene (ug/Kg)	551	9500	4217	4150	21	21	100%	1400	6300	2439	0.58	532	5327	3106
Retene	138	475	307	307	2	2	100%	172	441	238	0.78	169	2447	-1834
<b>Total HPAHs</b>	<b>3305</b>	<b>40020</b>	<b>21568</b>	<b>21660</b>	<b>9</b>	<b>21</b>	<b>43%</b>	<b>5372</b>	<b>35220</b>	<b>11259</b>	<b>0.52</b>	<b>2457</b>	<b>26693</b>	<b>16443</b>
<b>Total PAHs</b>	<b>3740</b>	<b>45870</b>	<b>25205</b>	<b>25345</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>6695</b>	<b>41110</b>	<b>12537</b>	<b>0.50</b>	<b>2736</b>	<b>30912</b>	<b>19498</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	1300	24000	9584	6900	21	21	100%	3900	16000	5890	0.61	1285	12265	6903
Butyl benzyl phthalate (ug/Kg)	140	2200	790	650	21	21	100%	280	1800	581	0.74	127	1054	525
Diethyl phthalate (ug/Kg)	4	250	51	42	6	21	29%	18	60	57	1.12	12	76	25
Dimethyl phthalate (ug/Kg)	15	2200	232	109	16	21	76%	33	440	468	2.02	102	445	19
Di-n-butyl phthalate (ug/Kg)	50	731	273	232	17	21	81%	69	580	202	0.74	44	365	181
Di-n-Octyl phthalate (ug/Kg)	12	4800	966	920	16	21	76%	26	1840	1094	1.13	239	1464	468
<b>Total Phthalates</b>	<b>1664</b>	<b>31210</b>	<b>11836</b>	<b>10054</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>4595</b>	<b>18950</b>	<b>7342</b>	<b>0.62</b>	<b>1602</b>	<b>15178</b>	<b>8494</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	12	44	32	33	8	8	100%	18	43	11	0.35	4	41	23
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.5	40	8.5	4.00	1.00	21	5%	1.0	24.0	11.8	1.39	2.6	13.8	3.1
Aroclor-1221 (ug/Kg)	0.5	40	8.9	4.80	1.00	21	5%	1.0	24.0	11.6	1.31	2.5	14.2	3.6
Aroclor-1232 (ug/Kg)	0.5	49	9.8	4.50	1.00	21	5%	1.0	39.5	14.3	1.45	3.1	16.3	3.3
Aroclor-1242 (ug/Kg)	0.4	40	8.5	4.00	1.00	21	5%	0.5	24.0	12.0	1.40	2.6	14.0	3.1
Aroclor-1248 (ug/Kg)	0.4	40	9.1	4.35	1.00	21	5%	0.5	24.0	11.9	1.30	2.6	14.5	3.7
Aroclor-1254 (ug/Kg)	0.4	390	50	10	7.0	21	33%	1.0	110.0	90.8	1.81	19.8	91.5	8.8
Aroclor-1260 (ug/Kg)	0.5	150	43	19	9.0	21	43%	1.5	110.0	46.4	1.07	10.1	64.4	22.1
<b>TOTAL PCBs</b>	<b>0</b>	<b>390</b>	<b>81</b>	<b>64</b>	<b>13</b>	<b>21</b>	<b>62%</b>	<b>0</b>	<b>180</b>	<b>95</b>	<b>1.18</b>	<b>21</b>	<b>124</b>	<b>38</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	19	25	22	22	2	2	100%	20	24	4	0.19	3	60	-16
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	19.00	19	19.0	19.00	1.00	2	50%	19	19	0	0.00	0	19	19
4-Methylphenol (ug/Kg dry)	56.00	4700	1391.4	691.00	5.00	5	100%	118	3340	1912	1.37	855	3766	-983
Pentachlorophenol (ug/Kg dry)	158.00	190	174.0	174.00	2.00	2	100%	161	187	23	0.13	16	377	-29

**NPDES Sediment Trap Locations**

- 1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.
  - 2 - Total HPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.
  - 3 - Total PAHs is the sum of the LPAHs and HPAHs.
  - 4 - Total value for PCBs is the sum of detected values only.
  - 5 - Total phthalates is the sum of detected values only.
  - 6 - The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up construction for this project and will re-evaluate possible locations with similar drainage areas and replace this upline trap in early 2023.
  - 7 - Due to insufficient sample size the silt and clay percentage is reported as combined.
- Bold – The analyte was present in the sample.  
U – The analyte was not detected at or above the reported value.  
UJ – The analyte was not detected at or above the reported estimated value.  
J – The analyte was positively identified. The associated value is an estimate.  
NJ - There is evidence the analyte is present. The associated value is an estimate.  
E - Estimated above the calibration curve.

**Table E-18**  
**Summary Statistics for Stormwater Sediment at OF237B FD1 WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	0.572	11	3.0	2.3	21	21	100%	1.3	3.8	2.3	0.79	0.5	4.0	1.9
Total Solids (%)	56.6	82.8	70.7	71.0	21	21	100%	65.0	77.4	6.1	0.09	1.3	73.5	67.9
Total Volatile Solids (%)	3.1	6.3	4.6	4.8	8	8	100%	3.5	5.6	1.0	0.22	0.4	5.5	3.8
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	375	658	525	520	8	8	100%	432	628	92	0.18	33	602	447
<b>Metals</b>														
Cadmium (mg/Kg dry)	0.034	2.030	0.518	0.363	10	10	100%	0.210	0.787	0.558	1.08	0.176	0.917	0.119
Copper (mg/Kg dry)	30.9	64	43	40	10	10	100%	33	64	12	0.27	4	52	35
Lead (mg/Kg dry)	20.6	129.0	47.7	41.7	21	21	100%	27.6	72.3	24.1	0.51	5.3	58.7	36.8
Mercury (mg/Kg dry)	0.0155	0.162	0.046	0.040	20	21	95%	0.018	0.070	0.033	0.71	0.007	0.061	0.031
Zinc (mg/Kg dry)	123	277	195	192	21	21	100%	143	233	36	0.19	8	212	179
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	1.55	780	81.3	39	14	21	67%	10	130	164	2.02	36	156	6
NWTPH-Heavy Oil (mg/Kg)	520	3000	1296	1200	21	21	100%	750	1800	630	0.49	138	1583	1009
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	3.5	120	34	32	6	21	29%	9.0	50	26	0.75	5.6	46	23
Acenaphthene (ug/Kg)	3.5	170	48	28	9	21	43%	8.0	130	52	1.08	11.3	72	24
Acenaphthylene (ug/Kg)	4.5	50	26	17	3	21	14%	8.0	50	17	0.68	3.8	33	18
Anthracene (ug/Kg)	7.5	500	123	39	15	21	71%	9.5	370	147	1.20	32.0	190	56
Fluorene (ug/Kg)	4	240	63	29	10	21	48%	9.0	190	72	1.14	15.6	95	30
Naphthalene (ug/Kg)	4	160	38	30	6	21	29%	8.0	50	35	0.93	7.7	54	22
Phenanthrene (ug/Kg)	36	3500	927	559	21	21	100%	107	2500	967	1.04	211	1367	486
<b>Total LPAHs</b>	<b>82</b>	<b>4509</b>	<b>1224</b>	<b>802</b>	<b>8</b>	<b>21</b>	<b>38%</b>	<b>151</b>	<b>3390</b>	<b>1262</b>	<b>1.03</b>	<b>275</b>	<b>1798</b>	<b>649</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	52	2200	579	357	21	21	100%	81	1200	564	0.97	123	836	322
Benzo(a)pyrene (ug/Kg)	62	2200	561	328	21	21	100%	103	1200	538	0.96	117	806	317
Benzo(b,k)fluoranthene (ug/Kg)	47	2900	697	260	21	21	100%	119	1800	842	1.21	184	1080	313
Benzo(g,h,i)perylene (ug/Kg)	147	7300	1696	900	21	21	100%	355	3900	1854	1.09	405	2540	852
Chrysene (ug/Kg)	68	3000	836	514	21	21	100%	149	1700	782	0.93	171	1192	480
Dibenz(a,h)anthracene (ug/Kg)	5.5	410	126	64	18	21	86%	25	230	117	0.92	26	180	73
Fluoranthene (ug/Kg)	77	4700	1396	1010	21	21	100%	235	2700	1257	0.90	274	1968	824
Indeno(1,2,3-c,d)pyrene (ug/Kg)	65	1600	436	255	21	21	100%	125	860	419	0.96	92	627	245
Pyrene (ug/Kg)	73	7400	1580	832	21	21	100%	234	3300	1755	1.11	383	2379	781
Retene	16	22	19	19	1	2	50%	17	21	4	0.22	3	57	-19
<b>Total HPAHs</b>	<b>636</b>	<b>28310</b>	<b>7907</b>	<b>4454</b>	<b>8</b>	<b>21</b>	<b>38%</b>	<b>1357</b>	<b>17280</b>	<b>7540</b>	<b>0.95</b>	<b>1645</b>	<b>11339</b>	<b>4474</b>
<b>Total PAHs</b>	<b>718</b>	<b>32819</b>	<b>9131</b>	<b>5256</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>1473</b>	<b>19850</b>	<b>8746</b>	<b>0.96</b>	<b>1909</b>	<b>13112</b>	<b>5149</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	1360	17000	4193	3040	21	21	100%	1540	6630	3527	0.84	770	5799	2588
Butyl benzyl phthalate (ug/Kg)	16	1700	296	149	20	21	95%	44	730	383	1.29	84	470	122
Diethyl phthalate (ug/Kg)	7	190	39	26	5	21	24%	16	50	38	0.97	8	57	22
Dimethyl phthalate (ug/Kg)	3	7200	387	24	6	21	29%	9	78	1563	4.04	341	1099	-324
Di-n-butyl phthalate (ug/Kg)	10	490	106	60	13	21	62%	16	210	121	1.14	26	161	51
Di-n-Octyl phthalate (ug/Kg)	7	2000	518	594	14	21	67%	17	880	515	0.99	112	753	284
<b>Total Phthalates</b>	<b>1568</b>	<b>21060</b>	<b>5475</b>	<b>3713</b>	<b>21</b>	<b>21</b>	<b>100%</b>	<b>1634</b>	<b>7840</b>	<b>5119</b>	<b>0.93</b>	<b>1117</b>	<b>7805</b>	<b>3145</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	2	21	9	7	8	8	100%	3	18	7	0.72	2	15	4
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.5	40	8.1	4	1	21	5%	0.9	24.0	11.7	1.44	2.5	13.4	2.8
Aroclor-1221 (ug/Kg)	0.5	40	8.4	4.5	1	21	5%	0.9	24.0	11.5	1.37	2.5	13.7	3.2
Aroclor-1232 (ug/Kg)	0.5	40	8.2	4	1	21	5%	0.9	24.0	11.6	1.41	2.5	13.5	2.9
Aroclor-1242 (ug/Kg)	0.4	40	8.2	3	1	21	5%	0.5	24.0	11.8	1.45	2.6	13.6	2.8
Aroclor-1248 (ug/Kg)	0.4	40	8.7	4	1	21	5%	0.5	24.0	11.7	1.35	2.6	14.0	3.3
Aroclor-1254 (ug/Kg)	0.4	43	10.4	4	3	21	14%	0.5	37.5	13.4	1.29	2.9	16.5	4.3
Aroclor-1260 (ug/Kg)	0.4	45	13.0	9.5	5	21	24%	0.5	37.5	14.4	1.11	3.1	19.5	6.4
<b>TOTAL PCBs</b>	<b>0</b>	<b>88</b>	<b>9</b>	<b>0</b>	<b>4</b>	<b>20</b>	<b>20%</b>	<b>0.0</b>	<b>30.5</b>	<b>21.4</b>	<b>2.51</b>	<b>4.8</b>	<b>18.6</b>	<b>-1.5</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	2	2	2	2	2	2	100%	2	2	0	0.00	0	2	2
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	15.50	33	22.3	19.00	1.00	5	20%	17	30	7	0.31	3	31	14
4-Methylphenol (ug/Kg dry)	19.00	900	339.4	272.50	7.00	8	88%	27	837	344	1.01	122	627	52
Pentachlorophenol (ug/Kg dry)	5.50	204	62.0	19.33	1.00	4	25%	8	150	95	1.03	48	213	-89

**NPDES Sediment Trap Locations**

- 1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.
  - 2 - Total HPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.
  - 3 - Total PAHs is the sum of the LPAHs and HPAHs.
  - 4 - Total value for PCBs is the sum of detected values only.
  - 5- Total phthalates is the sum of detected values only.
  - 6- The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up construction for this project and will re-
  - 7- Due to insufficient sample size the silt and clay percentage is reported as combined.
- Bold – The analyte was present in the sample.  
U – The analyte was not detected at or above the reported value.  
UJ – The analyte was not detected at or above the reported estimated value.  
J – The analyte was positively identified. The associated value is an estimate.  
NJ - There is evidence the analyte is present. The associated value is an estimate.  
E - Estimated above the calibration curve.

**Table E-19**  
**Summary Statistics for Stormwater Sediment at OF243 FD23 WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	3.71	14	8	8	17	17	100%	5.3	10.7	2.4	0.29	0.6	9.4	6.9
Total Solids (%)	18.6	47	32	31	21	21	100%	23.9	40.5	7.0	0.22	1.5	35.0	28.6
Total Volatile Solids (%)	17.0	24.9	20.7	20.6	8	8	100%	18.5	22.9	2.3	0.11	0.8	22.6	18.7
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	1900	13700	8892	9570	6	6	100%	3605	13500	4610	0.52	1882	13729	4054
<b>Metals</b>														
Cadmium (mg/Kg dry)	1.79	5.55	3.27	2.87	9	9	100%	1.90	4.66	1.25	0.38	0.42	4.23	2.31
Copper (mg/Kg dry)	174	288	225	224	9	9	100%	192	254	32	0.14	11	250	200
Lead (mg/Kg dry)	343	913	516	433	17	17	100%	377	755	172	0.33	42	604	428
Mercury (mg/Kg dry)	0.206	0.972	0.419	0.316	18	18	100%	0.229	0.750	0.236	0.56	0.056	0.536	0.302
Zinc (mg/Kg dry)	440	936	759	764	17	17	100%	648	909	127	0.17	31	824	693
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	10	670	231	200	18	20	90%	64	423	175	0.76	39	312	149
NWTPH-Heavy Oil (mg/Kg)	1700	7400	4350	4100	20	20	100%	2480	6660	1661	0.38	372	5128	3572
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	29	260	117	106	19	20	95%	56	157	53	0.46	12	142	92
Acenaphthene (ug/Kg)	7	211	64	50	14	20	70%	25	110	53	0.82	12	89	39
Acenaphthylene (ug/Kg)	16	130	64	50	13	20	65%	25	130	35	0.54	8	81	48
Anthracene (ug/Kg)	40	1000	308	295	20	20	100%	123	464	206	0.67	46	404	212
Fluorene (ug/Kg)	15	330	111	90	18	20	90%	39	211	86	0.77	19	151	71
Naphthalene (ug/Kg)	52	393	183	170	20	20	100%	104	287	85	0.47	19	223	143
Phenanthrene (ug/Kg)	134	2900	968	730	20	20	100%	409	2034	731	0.76	164	1310	625
<b>Total LPAHs</b>	<b>265</b>	<b>4830</b>	<b>1698</b>	<b>1359</b>	<b>9</b>	<b>20</b>	<b>45%</b>	<b>698</b>	<b>3201</b>	<b>1112</b>	<b>0.65</b>	<b>249</b>	<b>2218</b>	<b>1178</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	91	1700	715	644	19	20	95%	230	1113	395	0.55	88	900	530
Benzo(a)pyrene (ug/Kg)	112	1200	705	650	19	20	95%	263	1110	318	0.45	71	854	556
Benzo(b,k)fluoranthene (ug/Kg)	157	2100	683	515	19	20	95%	223	1320	501	0.73	112	917	449
Benzo(g,h,i)perylene (ug/Kg)	287	4200	1859	1810	20	20	100%	635	2795	946	0.51	211	2301	1416
Chrysene (ug/Kg)	184	2400	1350	1300	20	20	100%	496	2110	638	0.47	143	1649	1052
Dibenz(a,h)anthracene (ug/Kg)	23	1700	189	103	16	20	80%	38	266	362	1.92	81	359	19
Fluoranthene (ug/Kg)	186	3770	1522	1450	20	20	100%	644	2542	844	0.55	189	1917	1127
Indeno(1,2,3-c,d)pyrene (ug/Kg)	50	950	419	390	18	20	90%	136	701	230	0.55	51	527	311
Pyrene (ug/Kg)	316	5700	2283	1865	20	20	100%	841	3780	1443	0.63	323	2958	1608
Retene	70	154	112	112	2	2	100%	78	146	59	0.53	42	646	-422
<b>Total HPAHs</b>	<b>1537</b>	<b>18206</b>	<b>9725</b>	<b>8750</b>	<b>9</b>	<b>20</b>	<b>45%</b>	<b>3305</b>	<b>15863</b>	<b>4685</b>	<b>0.48</b>	<b>1048</b>	<b>11918</b>	<b>7532</b>
<b>Total PAHs</b>	<b>1802</b>	<b>20550</b>	<b>11423</b>	<b>11075</b>	<b>20</b>	<b>20</b>	<b>100%</b>	<b>4003</b>	<b>19475</b>	<b>5460</b>	<b>0.48</b>	<b>1221</b>	<b>13978</b>	<b>8867</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	1830	41000	15565	13400	20	20	100%	5103	29800	11388	0.73	2547	20895	10235
Butyl benzyl phthalate (ug/Kg)	150	51000	8308	3000	20	20	100%	515	21600	13481	1.62	3014	14618	1999
Diethyl phthalate (ug/Kg)	10.5	269	63	40	7	20	35%	17	117	65	1.03	15	94	33
Dimethyl phthalate (ug/Kg)	13	390	106	55	15	20	75%	25	224	107	1.01	24	156	56
Di-n-butyl phthalate (ug/Kg)	16	725	233	186	19	20	95%	67	456	184	0.79	41	319	146
Di-n-Octyl phthalate (ug/Kg)	7	4000	1105	733	15	20	75%	26	3410	1220	1.10	273	1676	534
<b>Total Phthalates</b>	<b>1993</b>	<b>96420</b>	<b>25314</b>	<b>19148</b>	<b>20</b>	<b>20</b>	<b>100%</b>	<b>6951</b>	<b>48994</b>	<b>23020</b>	<b>0.91</b>	<b>5147</b>	<b>36088</b>	<b>14540</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	2	29	14	15	8	8	100%	5	26	9	0.67	3	22	6
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.5	80	11	3	1	16	6%	1	27	21	1.82	5	22	0.4
Aroclor-1221 (ug/Kg)	0.5	80	11	3	1	16	6%	1	27	21	1.82	5	22	0.4
Aroclor-1232 (ug/Kg)	0.5	80	11	3	1	16	6%	1	27	21	1.82	5	22	0.4
Aroclor-1242 (ug/Kg)	0.4	80	11	3	1	16	6%	0	28	21	1.81	5	23	0.4
Aroclor-1248 (ug/Kg)	0.4	80	12	3	1	16	6%	0	28	21	1.75	5	23	0.8
Aroclor-1254 (ug/Kg)	0.4	220	48	7	5	16	31%	0	155	72	1.50	18	87	9.7
Aroclor-1260 (ug/Kg)	0.4	96	16	4	2	16	13%	0	50	29	1.79	7	31	0.7
<b>TOTAL PCBs</b>	<b>0</b>	<b>220</b>	<b>49</b>	<b>0</b>	<b>4</b>	<b>15</b>	<b>27%</b>	<b>0</b>	<b>188</b>	<b>86</b>	<b>1.75</b>	<b>22</b>	<b>97</b>	<b>1.6</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	2	6	4	4	2	2	100%	2	6	3	0.71	2	29	-21
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	19.00	19	19.0	19.00	1.00	2	50%	19	19	0	0.00	0	19	19
4-Methylphenol (ug/Kg dry)	14.00	5400	1161.2	100.00	4.00	5	80%	47	3318	2370	2.04	1060	4104	-1782
Pentachlorophenol (ug/Kg dry)	106.00	162	134.0	134.00	2.00	2	100%	112	156	40	0.30	28	490	-222

**NPDES Sediment Trap Locations**

- 1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene
- 2 - Total HPAHs is the sum of the concentration of non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.
- 3 - Total PAHs is the sum of the LPAHs and HPAHs.
- 4 - Total value for PCBs is the sum of detected values only.
- 5- Total phthalates is the sum of detected values only.
- 6- The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up
- 7- Due to insufficient sample size the silt and clay percentage is reported as combined.

**Bold** – The analyte was present in the sample.  
**U** – The analyte was not detected at or above the reported value.  
**UJ** – The analyte was not detected at or above the reported estimated value.  
**J** – The analyte was positively identified. The associated value is an estimate.  
**NJ** - There is evidence the analyte is present. The associated value is an estimate.  
**E** - Estimated above the calibration curve.

**Table E-20**  
**Summary Statistics for Stormwater Sediment at OF245 MH390 WY2002-WY2022**

	Minimum	Maximum	Arithmetic Mean	Median	Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Total Organic Carbon (mg/Kg)	0.933	14	4.9	4.1	22	22	100%	1.2	10.7	3.6	0.74	0.8	6.5	3.3
Total Solids (%)	43.8	81	66.3	68.9	22	22	100%	45.5	79.0	12.1	0.18	2.6	71.7	61.0
Total Volatile Solids (%)	3	30.9	13.6	11.5	8	8	100%	5.0	27.0	9.8	0.72	3.5	21.8	5.4
<b>Nutrients</b>														
Phosphorus, Total (mg/Kg)	587	3290	1280	967	8	8	100%	612	2254	910	0.71	322	2041	518
<b>Metals</b>														
Cadmium (mg/Kg dry)	0.541	1.800	1.059	0.881	10	10	100%	0.583	1.773	0.506	0.478	0.160	1.421	0.697
Copper (mg/Kg dry)	45.2	276	121	114	11	11	100%	71	171	63	0.52	19	164	78.9
Lead (mg/Kg dry)	8.3	98.4	48.8	47.7	22	22	100%	22.0	80.0	24.8	0.51	5.3	59.7	37.8
Mercury (mg/Kg dry)	0.0075	0.2110	0.0686	0.0535	21	22	95%	0.025	0.150	0.054	0.780	0.011	0.092	0.045
Zinc (mg/Kg dry)	80.9	679	422	439	22	22	100%	174	639	179	0.42	38	502	343
<b>TPH</b>														
NWTPH-Diesel (mg/Kg)	1.55	2400	348	155	15	22	68%	12	740	537	1.54	114	585	110
NWTPH-Heavy Oil (mg/Kg)	230	10000	3177	2950	22	22	100%	830	5440	2255	0.71	481	4177	2177
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/Kg)	8.5	355	55	36	11	22	50%	26	70	70	1.27	15.0	86	24.2
Acenaphthene (ug/Kg)	7	248	41	29	8	22	36%	9	50	52	1.26	11.0	64	18.1
Acenaphthylene (ug/Kg)	7	115	30	21	6	22	27%	11	50	24	0.82	5.1	40	18.8
Anthracene (ug/Kg)	7.5	1660	148	44	14	22	64%	9.8	236	357	2.42	76.0	306	-10.5
Fluorene (ug/Kg)	9.5	260	53	30	9	22	41%	12	112	65	1.22	13.9	82	24.4
Naphthalene (ug/Kg)	9.5	150	61	51	11	22	50%	26	114	37	0.60	7.8	77	44.5
Phenanthrene (ug/Kg)	8.5	1410	267	163	20	22	91%	52	645	321	1.20	68.4	409	124
<b>Total LPAHs</b>	<b>95</b>	<b>3726</b>	<b>601</b>	<b>329</b>	<b>9</b>	<b>22</b>	<b>41%</b>	<b>190</b>	<b>1044</b>	<b>793</b>	<b>1.32</b>	<b>169</b>	<b>953</b>	<b>249</b>
<b>HPAHs</b>														
Benzo(a)anthracene (ug/Kg)	12.5	3740	310	84	18	22	82%	31	390	786	2.53	167	658	-38
Benzo(a)pyrene (ug/Kg)	22	2240	225	102	17	22	77%	28	330	466	2.08	99	432	18
Benzo(b,k)fluoranthene (ug/Kg)	34	1660	203	116	16	22	73%	58	286	334	1.65	71	351	54
Benzo(g,h,i)perylene (ug/Kg)	50	1870	347	192	20	22	91%	62	783	413	1.19	88	530	164
Chrysene (ug/Kg)	49.5	6490	533	175	21	22	95%	55	585	1350	2.53	288	1132	-66
Dibenz(a,h)anthracene (ug/Kg)	8.0	616	61	33	8	22	36%	10	50	126	2.06	27	117	5
Fluoranthene (ug/Kg)	49.5	3840	441	210	21	22	95%	96	769	795	1.80	170	793	88
Indeno(1,2,3-c,d)pyrene (ug/Kg)	23.5	608	94	50	13	22	59%	32	138	124	1.31	26	149	40
Pyrene (ug/Kg)	49.5	12100	979	365	21	22	95%	118	1175	2507	2.56	534	2090	-132
Retene	22	34	28	28	2	2	100%	23	33	8	0.30	6	104	-48
<b>Total HPAHs</b>	<b>420</b>	<b>33164</b>	<b>3193</b>	<b>1468</b>	<b>9</b>	<b>22</b>	<b>41%</b>	<b>539</b>	<b>4565</b>	<b>6823</b>	<b>2.14</b>	<b>1455</b>	<b>6218</b>	<b>168</b>
<b>TOTAL PAHs</b>	<b>515</b>	<b>36890</b>	<b>3794</b>	<b>1827</b>	<b>22</b>	<b>22</b>	<b>100%</b>	<b>746</b>	<b>5730</b>	<b>7576</b>	<b>2.00</b>	<b>1615</b>	<b>7153</b>	<b>435</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl) phthalate (ug/Kg)	1150	34000	10220	4865	21	22	95%	1321	32000	12007	1.17	2560	15544	4897
Butyl benzyl phthalate (ug/Kg)	2500	160000	25434	11000	22	22	100%	3500	47900	35034	1.38	7469	40967	9901
Diethyl phthalate (ug/Kg)	7.5	820	77	30	5	22	23%	17	112	169	2.20	36	152	2
Dimethyl phthalate (ug/Kg)	4.5	9810	505	50	11	22	50%	15	164	2079	4.12	443	1426	-417
Di-n-butyl phthalate (ug/Kg)	48.0	15000	1121	225	19	22	86%	52	1475	3147	2.81	671	2516	-274
Di-n-Octyl phthalate (ug/Kg)	14.5	4250	431	132	13	22	59%	22	943	907	2.11	193	833	28
<b>Total Phthalates</b>	<b>5333</b>	<b>207260</b>	<b>37648</b>	<b>14662</b>	<b>22</b>	<b>22</b>	<b>100%</b>	<b>5834</b>	<b>81292</b>	<b>46761</b>	<b>1.24</b>	<b>9969</b>	<b>58380</b>	<b>16915</b>
<b>Insecticides</b>														
Bifenthrin (ug/Kg)	0	9	4	3	7	8	88%	1	8	3	0.74	1	7	2
<b>PCBs</b>														
Aroclor-1016 (ug/Kg)	0.5	17	4.1	3.0	1	20	5%	1.0	6.4	3.8	0.93	0.8	5.8	2
Aroclor-1221 (ug/Kg)	0.5	17	4.7	4.7	1	20	5%	1.0	10.0	4.0	0.84	0.9	6.6	3
Aroclor-1232 (ug/Kg)	0.5	17	4.3	3.0	1	20	5%	1.0	8.2	3.9	0.89	0.9	6.1	3
Aroclor-1242 (ug/Kg)	0.4	120	9.9	3.0	2	20	10%	0.5	10.7	26.2	2.65	5.9	22.2	-2
Aroclor-1248 (ug/Kg)	0.4	17	4.7	3.0	1	20	5%	0.5	10.6	4.5	0.94	1.0	6.8	3
Aroclor-1254 (ug/Kg)	0.4	140	20	7.5	7	20	35%	0.5	64.6	34.6	1.72	7.7	36.3	4
Aroclor-1260 (ug/Kg)	0.5	180	21	5.0	2	19	11%	0.9	39.2	48.1	2.28	11.0	44.3	-2
<b>TOTAL PCBs</b>	<b>0</b>	<b>440</b>	<b>41</b>	<b>0</b>	<b>7</b>	<b>19</b>	<b>37%</b>	<b>0</b>	<b>82</b>	<b>103</b>	<b>2.52</b>	<b>24</b>	<b>90</b>	<b>-9</b>
<b>Herbicides</b>														
Dichlobenil (ug/L)	10	18	14	14	2	2	100%	11	17	6	0.40	4	65	-37
<b>Phenolics</b>														
2-Methylphenol (ug/Kg dry)	15.50	119	39.5	19.00	2.00	5	40%	17	81	45	1.13	20	95	-16
4-Methylphenol (ug/Kg dry)	10.00	115	47.3	36.50	2.00	8	25%	11	105	40	0.85	14	81	14
Pentachlorophenol (ug/Kg dry)	5.50	111	48.1	37.88	2.00	4	50%	12	93	46	0.95	23	121	-25

**NPDES Sediment Trap Locations**

- 1 - Total LPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Naphthalene, acenaphthene, acenaphthylene, anthracene, fluorene, and phenanthrene.
  - 2 - Total HPAHs is the sum of the concentration or non-detected calculated value of the following compounds: Fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, benzo(g,h,i)perylene.
  - 3 - Total PAHs is the sum of the LPAHs and HPAHs.
  - 4 - Total value for PCBs is the sum of detected values only.
  - 5 - Total phthalates is the sum of detected values only.
  - 6 - The upline FD3A sediment trap was removed due to the construction of the new OF230A on 12/17/2021 and no sediment was analyzed for WY2022. The City is currently finishing up construction for this project and will
  - 7 - Due to insufficient sample size the silt and clay percentage is reported as combined.
- Bold** – The analyte was present in the sample.  
**U** – The analyte was not detected at or above the reported value.  
**UJ** – The analyte was not detected at or above the reported estimated value.  
**J** – The analyte was positively identified. The associated value is an estimate.  
**NJ** - There is evidence the analyte is present. The associated value is an estimate.  
**E** - Estimated above the calibration curve.

**Table E-21**  
**Baseflow Data at Outfall 230 for WY2016 and WY2019**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (ug/L)	0.013	0.0464	0.0	0.0327	4	5	80%	0.0161	0.0429	0.0	0.443	0.006	0.0	0.0
BOD (mg/L)	1.0	4.9	1.8	1.0	1	5	20%	1.0	3.3	1.7	0.980	0.780	3.9	-0.4
Chloride (mg/L)	13.3	44.4	21.6	17.2	5	5	100%	13.3	34.5	13.0	0.604	5.828	37.8	5.4
Conductivity (uS/cm)	126	20900	3201.9	248	7	7	100%	154	8609	7805	2.438	2949.91	10420.0	-4016.3
Hardness (mg CaCO3/L)	67	150	103.2	97.1	7	7	100%	71.9	147	32.3	0.313	12.22	133.1	73.3
pH (pH units)	7.0	8.1	7.7	7.9	7	7	100%	7.0	8.04	0.5	0.061	0.18	8.1	7.2
TSS (mg/L)	1.70	12.7	5.34	2.70	7	7	100%	2.00	12.46	4.92	0.922	1.86	9.9	0.8
Turbidity (NTU)	1.84	15.5	6.51	5.39	5	5	100%	2.26	12.076	5.41	0.831	2.42	13.2	-0.2
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.513	1.570	0.998	0.934	6	6	100%	0.659	1.400	0.365	0.37	0.149	1.381	0.614
Phosphate, Ortho (mg/L)	0.057	0.165	0.116	0.113	6	6	100%	0.076	0.159	0.040	0.35	0.016	0.157	0.074
Phosphorus, Total (mg/L)	0.070	0.184	0.128	0.126	6	6	100%	0.083	0.176	0.045	0.35	0.018	0.175	0.081
Total Nitrogen (mg/L)	0.600	2.000	1.093	1.060	6	6	100%	0.605	1.615	0.522	0.48	0.213	1.642	0.545
<b>Metals</b>														
Cadmium (ug/L)	0.017	0.062	0.036	0.031	2	7	29%	0.019	0.058	0.017	0.472	0.006	0.052	0.020
Cadmium, Dissolved (ug/L)	0.013	0.040	0.024	0.025	2	7	29%	0.013	0.032	0.009	0.386	0.003	0.032	0.015
Copper (ug/L)	2.89	10.100	5.003	4.04	7	7	100%	3.232	7.622	2.445	0.489	0.924	7.264	2.741
Copper, Dissolved (ug/L)	1.78	7.06	3.19	2.68	7	7	100%	2.07	4.67	1.77	0.554	0.668	4.825	1.555
Lead (ug/L)	0.380	3.55	1.25	0.748	7	7	100%	0.46	2.39	1.11	0.888	0.420	2.280	0.224
Lead, Dissolved (ug/L)	0.010	0.386	0.202	0.232	6	7	86%	0.068	0.324	0.128	0.632	0.048	0.321	0.084
Mercury (ng/L)	0.0008	0.004	0.002	0.001	5	7	71%	0.00092	0.004	0.0014	0.705	0.0005	0.0033	0.0007
Mercury, Dissolved (ng/L)	0.0009	0.0045	0.0026	0.0025	1	7	14%	0.0019	0.0034	0.0010	0.406	0.0004	0.0035	0.0016
Zinc (ug/L)	10.3	85.7	29.4	15.0	7	7	100%	12.46	62.06	27.596	0.938	10.430	54.936	3.892
Zinc, Dissolved (ug/L)	6.47	34.2	14.3	11.3	7	7	100%	7.73	23.3	9.28	0.646	3.51	22.9	5.77
<b>Insecticides</b>														
Carbaryl (ug/L)	0.030	0.030	0.030	0.030	0	4	0%	0.030	0.030	0	0	0	0.030	0.030
Chlorpyrifos (ug/L)	0.0255	0.0295	0.0268	0.0260	0	7	0%	0.0255	0.0295	0.002	0.070	0.001	0.029	0.025
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.013	0.007	0.005	2	7	29%	0.005	0.012	0.003	0.49	0.001	0.010	0.004
Acenaphthene (ug/L)	0.0025	0.007	0.005	0.005	1	7	14%	0.004	0.006	0.001	0.26	0.000	0.006	0.004
Acenaphthylene (ug/L)	0.0015	0.005	0.004	0.005	1	7	14%	0.003	0.005	0.001	0.30	0.000	0.006	0.003
Anthracene (ug/L)	0.003	0.008	0.005	0.005	1	7	14%	0.003	0.006	0.002	0.35	0.001	0.006	0.003
Fluorene (ug/L)	0.004	0.007	0.006	0.005	3	7	43%	0.005	0.007	0.001	0.20	0.000	0.007	0.005
Naphthalene (ug/L)	0.005	0.03	0.015	0.015	6	7	86%	0.009	0.023	0.007	0.44	0.003	0.022	0.009
Phenanthrene (ug/L)	0.008	0.026	0.017	0.017	7	7	100%	0.012	0.022	0.006	0.33	0.002	0.022	0.012
<b>Total LPAHs</b>	<b>0.035</b>	<b>0.07</b>	<b>0.047</b>	<b>0.046</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0.036</b>	<b>0.061</b>	<b>0.012</b>	<b>0.25</b>	<b>0.005</b>	<b>0.058</b>	<b>0.036</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.003	0.008	0.005	0.005	1	7	14%	0.003	0.006	0.002	0.35	0.001	0.006	0.003
Benzo(a)pyrene (ug/L)	0.002	0.010	0.005	0.005	2	7	29%	0.003	0.007	0.002	0.51	0.001	0.007	0.003
Benzo(b,k)fluoranthenes (ug/L)	0.005	0.026	0.011	0.010	1	7	14%	0.005	0.017	0.007	0.63	0.003	0.018	0.005
Benzo(g,h,i)perylene (ug/L)	0.003	0.010	0.005	0.004	3	7	43%	0.003	0.007	0.002	0.50	0.001	0.007	0.003
Chrysene (ug/L)	0.002	0.007	0.005	0.005	2	7	29%	0.004	0.006	0.001	0.30	0.001	0.006	0.004
Dibenz(a,h)anthracene (ug/L)	0.002	0.005	0.004	0.005	1	7	14%	0.003	0.005	0.001	0.27	0.000	0.005	0.003
Fluoranthene (ug/L)	0.004	0.015	0.008	0.007	5	7	71%	0.004	0.013	0.004	0.49	0.002	0.012	0.005
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.013	0.006	0.005	1	7	14%	0.004	0.008	0.003	0.58	0.001	0.009	0.003
Pyrene (ug/L)	0.004	0.016	0.007	0.005	2	7	29%	0.004	0.012	0.004	0.63	0.002	0.011	0.003
<b>Total HPAHs</b>	<b>0.023</b>	<b>0.11</b>	<b>0.042</b>	<b>0.034</b>	<b>4</b>	<b>7</b>	<b>57%</b>	<b>0.025</b>	<b>0.070</b>	<b>0.030</b>	<b>0.70</b>	<b>0.011</b>	<b>0.069</b>	<b>0.015</b>
<b>Total PAHs</b>	<b>0.061</b>	<b>0.14</b>	<b>0.089</b>	<b>0.084</b>	<b>7</b>	<b>7</b>	<b>100%</b>	<b>0.062</b>	<b>0.118</b>	<b>0.029</b>	<b>0.33</b>	<b>0.011</b>	<b>0.116</b>	<b>0.062</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.188	0.8	0.48	0.52	2	7	29%	0.190	0.71	0.229	0.473	0.087	0.696	0.272
Butyl benzyl phthalate (ug/L)	0.213	0.52	0.429	0.510	0	7	0%	0.224	0.517	0.142	0.330	0.054	0.560	0.298
Diethylphthalate (ug/L)	0.139	1.20	0.600	0.520	3	7	43%	0.162	1.140	0.412	0.69	0.156	0.981	0.219
Dimethyl phthalate (ug/L)	0.134	0.52	0.414	0.510	0	7	0%	0.174	0.517	0.169	0.409	0.064	0.570	0.257
Di-n-butylphthalate (ug/L)	0.138	0.52	0.359	0.510	2	7	29%	0.141	0.520	0.196	0.546	0.074	0.541	0.178
Di-n-Octyl phthalate (ug/L)	0.174	0.52	0.421	0.510	0	7	0%	0.199	0.517	0.155	0.368	0.059	0.565	0.278
<b>Total Phthalates</b>	<b>--</b>	<b>2.3</b>	<b>0.72</b>	<b>--</b>	<b>3</b>	<b>7</b>	<b>43%</b>	<b>0.000</b>	<b>2.218</b>	<b>1.052</b>	<b>1.47</b>	<b>0.40</b>	<b>1.69</b>	<b>-0.26</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.044	0.970	0.211	0.050	3	6	50%	0.047	0.535	0.373	1.77	0.152	0.602	-0.180
Dichlobenil (ug/L)	0.020	0.052	0.043	0.051	1	7	14%	0.027	0.052	0.012	0.288	0.005	0.055	0.032
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.015	0.050	0.022	0.015	0	5	0%	0.015	0.036	0.016	0.71	0.007	0.041	0.003
NWTPH-Gasoline (ug/L)	2.34	25.0	6.9	2.3	0	5	0%	2.3	15.9	10.1	1.47	4.5	19.5	-5.7
NWTPH-Heavy Oil (mg/L)	0.100	0.105	0.102	0.100	0	5	0%	0.100	0.105	0.003	0.03	0.001	0.105	0.099
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	10	2,400	669	110	4	5	80%	19	1,756	1,020	1.53	456	1,935	-598
<b>BTEX</b>														
Benzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Ethylbenzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
m,p-Xylene (ug/L)	0.200	1.000	0.840	1.000	0	5	0%	0.520	1.000	0.358	0.43	0.160	1.284	0.396
o-Xylene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Toluene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137

**Table E-22  
Baseflow Data at Outfall 235 for WY2016 and WY2019**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (ug/L)	0.0048	0.054	0.0	0.029	6	7	86%	0.01378	0.0507	0.0	0.545	0.006	0.0	0.0
BOD (mg/L)	1	1	1.0	1	0	7	0%	1	1	0.0	0.000	0.000	1.0	1.0
Chloride (mg/L)	15.8	50.4	27.3	22.25	6	6	100%	16.65	43.05	13.3	0.487	5.429	41.3	13.4
Conductivity (uS/cm)	323	714	419.1	337	7	7	100%	327.8	567	141.6	0.338	53.52	550.1	288.2
Hardness (mg CaCO3/L)	129	155	138.9	136	7	7	100%	131.4	151.4	9.5	0.068	3.59	147.6	130.1
pH (pH units)	6.9	8.1	7.7	7.8	7	7	100%	7.32	8.04	0.4	0.052	0.15	8.1	7.4
TSS (mg/L)	0.5	4.27	2.0	1.8	6	7	86%	0.62	3.4	1.4	0.686	0.51	3.2	0.7
Turbidity (NTU)	0.8	9.53	3.2	1.74	7	7	100%	1.04	7.034	3.2	1.007	1.21	6.1	0.2
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.980	1.280	1.160	1.210	7	7	100%	0.998	1.280	0.129	0.11	0.049	1.279	1.041
Phosphate, Ortho (mg/L)	0.980	1.280	1.160	1.210	7	7	100%	0.998	1.280	0.129	0.11	0.049	1.279	1.041
Phosphorus, Total (mg/L)	0.093	0.143	0.119	0.125	6	6	100%	0.098	0.136	0.018	0.15	0.007	0.139	0.100
Total Nitrogen (mg/L)	1.080	1.630	1.337	1.350	7	7	100%	1.176	1.516	0.172	0.13	0.065	1.496	1.178
<b>Metals</b>														
Cadmium (ug/L)	0.0085	0.25	0.1	0.03	1	7	14%	0.0	0	0.1	1.601	0.03	0.1	0.0
Cadmium, Dissolved (ug/L)	0.0	0.25	0.1	0.0	0	7	0%	0.0	0	0.1	1.025	0.05	0.2	0.0
Copper (ug/L)	1.34	6.000	3.200	2.6	7	7	100%	1.454	5.772	1.867	0.583	0.706	4.927	1.473
Copper, Dissolved (ug/L)	1.0	4.5	2.0	1.7	7	7	100%	1.1	3	1.2	0.568	0.44	3.1	1.0
Lead (ug/L)	0.51	4.79	2	1.65	7	7	100%	0.5	3	1.4	0.765	0.54	3.2	0.5
Lead, Dissolved (ug/L)	0.1	2.73	0.7	0.4	7	7	100%	0.1	2	0.9	1.271	0.35	1.6	-0.1
Mercury (ng/L)	0.0008	0.0	0.00	0.00	1	7	14%	0.00182	0.004	0.00	0.403	0.000	0.00	0.00
Mercury, Dissolved (ng/L)	0.0	0.0045	0.0	0.0	0	7	0%	0.0	0	0.0	0.448	0.00	0.0	0.0
Zinc (ug/L)	5	10.500	6.600	5.93	7	7	100%	5.186	8.7	1.917	0.290	0.724	8.373	4.827
Zinc, Dissolved (ug/L)	3.6	5.38	4.3	4.1	7	7	100%	3.7	5	0.7	0.157	0.25	4.9	3.7
<b>Insecticides</b>														
Carbaryl (ug/L)	0.030	0.030	0.030	0.030	0	4	0%	0.030	0.030	0.000	0.00	0.000	0.030	0.030
Chlorpyrifos (ug/L)	0.026	0.030	0.027	0.026	0	7	0%	0.026	0.030	0.002	0.08	0.001	0.029	0.025
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.0015	0.015	0.006	0.005	1	7	14%	0.004	0.009	0.004	0.71	0.002	0.010	0.002
Acenaphthene (ug/L)	0.0025	0.005	0.005	0.005	0	7	0%	0.004	0.005	0.001	0.20	0.000	0.006	0.004
Acenaphthylene (ug/L)	0.0015	0.005	0.005	0.005	0	7	0%	0.004	0.005	0.001	0.29	0.001	0.006	0.003
Anthracene (ug/L)	0.003	0.008	0.005	0.005	1	7	14%	0.003	0.006	0.002	0.35	0.001	0.006	0.003
Fluorene (ug/L)	0.003	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.22	0.000	0.005	0.003
Naphthalene (ug/L)	0.005	0.02	0.008	0.005	1	7	14%	0.005	0.014	0.006	0.74	0.002	0.013	0.003
Phenanthrene (ug/L)	0.005	0.020	0.008	0.005	2	7	29%	0.005	0.014	0.006	0.73	0.002	0.013	0.003
<b>Total LPAHs</b>	<b>0.012</b>	<b>0.06</b>	<b>0.027</b>	<b>0.019</b>	<b>2</b>	<b>7</b>	<b>29%</b>	<b>0.016</b>	<b>0.048</b>	<b>0.017</b>	<b>0.62</b>	<b>0.006</b>	<b>0.042</b>	<b>0.011</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.003	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.25	0.000	0.005	0.003
Benzo(a)pyrene (ug/L)	0.002	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.28	0.000	0.005	0.003
Benzo(b,k)fluoranthenes (ug/L)	0.005	0.011	0.008	0.010	0	7	0%	0.005	0.011	0.003	0.32	0.001	0.011	0.006
Benzo(g,h,i)perylene (ug/L)	0.003	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.26	0.000	0.005	0.003
Chrysene (ug/L)	0.002	0.005	0.004	0.005	0	7	0%	0.002	0.005	0.002	0.43	0.001	0.005	0.002
Dibenz(a,h)anthracene (ug/L)	0.002	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.28	0.000	0.005	0.003
Fluoranthene (ug/L)	0.003	0.005	0.004	0.005	0	7	0%	0.003	0.005	0.001	0.21	0.000	0.005	0.003
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.005	0.005	0.005	0	7	0%	0.004	0.005	0.001	0.20	0.000	0.005	0.004
Pyrene (ug/L)	0.003	0.011	0.005	0.005	1	7	14%	0.003	0.007	0.003	0.49	0.001	0.008	0.003
<b>Total HPAHs</b>	<b>0.022</b>	<b>0.04</b>	<b>0.027</b>	<b>0.024</b>	<b>1</b>	<b>7</b>	<b>14%</b>	<b>0.022</b>	<b>0.035</b>	<b>0.007</b>	<b>0.27</b>	<b>0.003</b>	<b>0.033</b>	<b>0.020</b>
<b>Total PAHs</b>	<b>0.036</b>	<b>0.09</b>	<b>0.05</b>	<b>0.041</b>	<b>2</b>	<b>7</b>	<b>29%</b>	<b>0.038</b>	<b>0.085</b>	<b>0.022</b>	<b>0.42</b>	<b>0.008</b>	<b>0.074</b>	<b>0.033</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.188	0.5	0.37	0.48	1	7	14%	0.190	0.51	0.167	0.452	0.063	0.524	0.215
Butyl benzyl phthalate (ug/L)	0.213	0.52	0.390	0.505	0	7	0%	0.223	0.517	0.153	0.394	0.058	0.532	0.248
Diethylphthalate (ug/L)	0.139	1	0.364	0.505	0	7	0%	0.161	0.517	0.186	0.51	0.070	0.536	0.191
Dimethyl phthalate (ug/L)	0.134	0.52	0.370	0.505	0	7	0%	0.174	0.517	0.179	0.485	0.068	0.536	0.204
Di-n-butylphthalate (ug/L)	0.140	0.52	0.374	0.505	1	7	14%	0.142	0.517	0.179	0.480	0.068	0.540	0.208
Di-n-Octyl phthalate (ug/L)	0.174	0.52	0.380	0.505	0	7	0%	0.199	0.517	0.166	0.438	0.063	0.534	0.226
<b>Total Phthalates</b>	<b>0.000</b>	<b>0.5</b>	<b>0.11</b>	<b>0.000</b>	<b>2</b>	<b>7</b>	<b>29%</b>	<b>0.000</b>	<b>0.363</b>	<b>0.196</b>	<b>1.79</b>	<b>0.07</b>	<b>0.29</b>	<b>-0.07</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.017	0.061	0.044	0.050	3	7	43%	0.023	0.054	0.016	0.36	0.006	0.058	0.029
Dichlobenil (ug/L)	0.010	0.052	0.039	0.046	1	7	14%	0.016	0.051	0.017	0.43	0.006	0.055	0.023
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.015	0.050	0.022	0.015	0	5	0%	0.015	0.036	0.016	0.71	0.007	0.041	0.003
NWTPH-Gasoline (ug/L)	2.3	25.0	6.9	2.3	0	5	0%	2.3	15.9	10.1	1.47	4.5	19.5	-5.7
NWTPH-Heavy Oil (mg/L)	0.100	0.105	0.102	0.100	0	5	0%	0.100	0.105	0.003	0.03	0.001	0.105	0.099
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	110	16,000	5,062	2,400	5	5	100%	626	11,760	6,418	1.27	2,870	13,031	-2,907
<b>BTEX</b>														
Benzene (ug/L)	0.500	1.000	0.740	0.700	5	5	100%	0.580	0.920	0.182	0.25	0.081	0.966	0.514
Ethylbenzene (ug/L)	0.100	0.250	0.190	0.200	3	5	60%	0.140	0.230	0.055	0.29	0.024	0.258	0.122
m,p-Xylene (ug/L)	0.200	1.000	0.720	1.000	1	5	20%	0.280	1.000	0.390	0.54	0.174	1.204	0.236
o-Xylene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Toluene (ug/L)	0.100	0.250	0.190	0.200	3	5	60%	0.140	0.230	0.055	0.29	0.024	0.258	0.122



**Table E-23  
Baseflow Data at Outfall 237A for WY2016 and WY2019**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (ug/L)	0.00475	0.0466	0.0	0.0125	4	10	40%	0.011725	0.03445	0.0	0.685	0.004	0.0	0.0
BOD (mg/L)	1	1	1.0	1	0	9	0%	1	1	0.0	0.000	0.000	1.0	1.0
Chloride (mg/L)	11.5	21.3	16.3	15.95	10	10	100%	12.04	19.95	3.4	0.206	1.062	18.7	13.9
Conductivity (uS/cm)	304	423	347.6	334.5	10	10	100%	306.7	414.9	40.4	0.116	12.79	376.5	318.7
Hardness (mg CaCO3/L)	126	141	130.8	131	10	10	100%	126.9	134.7	4.5	0.035	1.44	134.0	127.6
pH (pH units)	7.1	8.1	7.7	7.9	10	10	100%	7.28	8.01	0.3	0.045	0.11	8.0	7.5
TSS (mg/L)	0.5	2.94	1.7	1.68	7	10	70%	0.95	2.634	0.8	0.447	0.24	2.3	1.2
Turbidity (NTU)	0.53	2	1.1	1.01	10	10	100%	0.548	1.649	0.5	0.452	0.15	1.4	0.7
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	2.160	2.560	2.369	2.395	10	10	100%	2.178	2.524	0.139	0.06	0.044	2.468	2.270
Phosphate, Ortho (mg/L)	0.028	0.042	0.034	0.034	10	10	100%	0.028	0.039	0.005	0.15	0.002	0.038	0.030
Phosphorus, Total (mg/L)	0.023	0.037	0.029	0.030	10	10	100%	0.026	0.033	0.004	0.14	0.001	0.032	0.027
Total Nitrogen (mg/L)	2.180	2.450	2.299	2.270	10	10	100%	2.189	2.450	0.108	0.05	0.034	2.377	2.221
<b>Metals</b>														
Cadmium (ug/L)	0.0105	0.25	0.1	0.03	0	10	0%	0.0	0	0.1	1.008	0.04	0.2	0.0
Cadmium, Dissolved (ug/L)	0.025	0.25	0.2	0.3	0	10	0%	0.0	0	0.1	0.726	0.04	0.2	0.1
Copper (ug/L)	0.184	1.060	0.466	0.4455	7	10	70%	0.2033	0.702	0.264	0.566	0.084	0.655	0.277
Copper, Dissolved (ug/L)	0.213	0.538	0.3	0.3	10	10	100%	0.2	0	0.1	0.319	0.03	0.4	0.2
Lead (ug/L)	0.037	0.52	0	0.079	7	10	70%	0.1	0	0.1	0.976	0.05	0.3	0.0
Lead, Dissolved (ug/L)	0.007	0.08	0.0	0.0	6	10	60%	0.0	0	0.0	0.801	0.01	0.0	0.0
Mercury (ng/L)	0.0008	0.0	0.00	0.00	0	10	0%	0.00233	0.004	0.00	0.357	0.000	0.00	0.00
Mercury, Dissolved (ng/L)	0.0	0.0045	0.0	0.0	0	10	0%	0.0	0	0.0	0.403	0.00	0.0	0.0
Zinc (ug/L)	0.99	4.090	2.585	2.775	10	10	100%	1.557	3.703	0.991	0.384	0.314	3.294	1.876
Zinc, Dissolved (ug/L)	0.72	3.39	1.9	2.0	10	10	100%	1.2	2	0.7	0.374	0.23	2.5	1.4
<b>Insecticides</b>														
Carbaryl (ug/L)	0.030	0.030	0.030	0.030	0	6	0%	0.030	0.030	0.000	0.00	0.000	0.030	0.030
Chlorpyrifos (ug/L)	0.026	0.030	0.027	0.026	0	10	0%	0.026	0.030	0.002	0.08	0.001	0.029	0.026
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.004	0.005	0.005	0.005	1	10	10%	0.005	0.005	0.000	0.06	0.000	0.005	0.005
Acenaphthene (ug/L)	0.0025	0.005	0.005	0.005	0	10	0%	0.005	0.005	0.001	0.17	0.000	0.005	0.004
Acenaphthylene (ug/L)	0.0015	0.005	0.005	0.005	0	10	0%	0.005	0.005	0.001	0.24	0.000	0.005	0.004
Anthracene (ug/L)	0.003	0.005	0.004	0.005	0	10	0%	0.003	0.005	0.001	0.25	0.000	0.005	0.003
Fluorene (ug/L)	0.003	0.005	0.005	0.005	0	10	0%	0.004	0.005	0.001	0.18	0.000	0.005	0.004
Naphthalene (ug/L)	0.004	0.01	0.006	0.006	1	10	10%	0.005	0.009	0.002	0.32	0.001	0.008	0.005
Phenanthrene (ug/L)	0.004	0.016	0.007	0.005	4	10	40%	0.004	0.012	0.004	0.60	0.001	0.009	0.004
<b>Total LPAHs</b>	<b>0.019</b>	<b>0.04</b>	<b>0.024</b>	<b>0.020</b>	<b>3</b>	<b>10</b>	<b>30%</b>	<b>0.019</b>	<b>0.032</b>	<b>0.008</b>	<b>0.32</b>	<b>0.002</b>	<b>0.030</b>	<b>0.019</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.004	0.006	0.005	0.005	1	10	10%	0.004	0.005	0.001	0.18	0.000	0.005	0.004
Benzo(a)pyrene (ug/L)	0.004	0.006	0.005	0.005	1	10	10%	0.004	0.005	0.001	0.18	0.000	0.005	0.004
Benzo(b,k)fluoranthenes (ug/L)	0.006	0.011	0.009	0.010	1	10	10%	0.006	0.011	0.002	0.23	0.001	0.010	0.007
Benzo(g,h,i)perylene (ug/L)	0.003	0.005	0.004	0.005	0	10	0%	0.003	0.005	0.001	0.25	0.000	0.005	0.003
Chrysene (ug/L)	0.002	0.006	0.004	0.005	1	10	10%	0.002	0.005	0.002	0.37	0.000	0.005	0.003
Dibenz(a,h)anthracene (ug/L)	0.002	0.005	0.004	0.005	0	10	0%	0.003	0.005	0.001	0.23	0.000	0.005	0.004
Fluoranthene (ug/L)	0.004	0.009	0.005	0.005	1	10	10%	0.004	0.005	0.002	0.32	0.001	0.006	0.004
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.005	0.005	0.005	0	10	0%	0.004	0.005	0.001	0.17	0.000	0.005	0.004
Pyrene (ug/L)	0.003	0.010	0.005	0.005	2	10	20%	0.003	0.006	0.002	0.43	0.001	0.006	0.003
<b>Total HPAHs</b>	<b>0.022</b>	<b>0.05</b>	<b>0.029</b>	<b>0.025</b>	<b>2</b>	<b>10</b>	<b>20%</b>	<b>0.022</b>	<b>0.035</b>	<b>0.010</b>	<b>0.36</b>	<b>0.003</b>	<b>0.036</b>	<b>0.022</b>
<b>Total PAHs</b>	<b>0.040</b>	<b>0.08</b>	<b>0.05</b>	<b>0.045</b>	<b>3</b>	<b>10</b>	<b>30%</b>	<b>0.040</b>	<b>0.075</b>	<b>0.016</b>	<b>0.30</b>	<b>0.005</b>	<b>0.065</b>	<b>0.042</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.189	0.5	0.37	0.47	2	10	20%	0.193	0.51	0.157	0.420	0.050	0.487	0.262
Butyl benzyl phthalate (ug/L)	0.213	0.52	0.398	0.505	0	10	0%	0.231	0.515	0.145	0.365	0.046	0.502	0.294
Diethylphthalate (ug/L)	0.265	1	0.430	0.488	6	10	60%	0.279	0.521	0.115	0.27	0.036	0.512	0.348
Dimethyl phthalate (ug/L)	0.134	0.52	0.381	0.505	0	10	0%	0.197	0.515	0.168	0.441	0.053	0.501	0.261
Di-n-butylphthalate (ug/L)	0.139	0.52	0.303	0.218	2	10	20%	0.140	0.506	0.179	0.591	0.057	0.431	0.175
Di-n-Octyl phthalate (ug/L)	0.174	0.52	0.389	0.505	0	10	0%	0.214	0.515	0.156	0.402	0.049	0.501	0.277
<b>*Total Phthalates</b>	<b>0.000</b>	<b>1.0</b>	<b>0.36</b>	<b>0.334</b>	<b>6</b>	<b>10</b>	<b>60%</b>	<b>0.000</b>	<b>0.937</b>	<b>0.383</b>	<b>1.05</b>	<b>0.12</b>	<b>0.64</b>	<b>0.09</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.009	0.093	0.048	0.050	2	9	22%	0.023	0.059	0.023	0.48	0.008	0.065	0.030
Dichlobenil (ug/L)	0.020	0.052	0.046	0.051	0	10	0%	0.043	0.052	0.010	0.21	0.003	0.053	0.039
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.015	0.050	0.022	0.015	0	5	0%	0.015	0.036	0.016	0.71	0.007	0.041	0.003
NWTPH-Gasoline (ug/L)	2.3	25.0	6.9	2.3	0	5	0%	2.3	15.9	10.1	1.47	4.5	19.5	-5.7
NWTPH-Heavy Oil (mg/L)	0.095	0.105	0.101	0.100	0	5	0%	0.097	0.105	0.004	0.04	0.002	0.106	0.096
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	40	490	257	220	5	5	100%	42	490	225	0.87	100	536	-22
<b>BTEX</b>														
Benzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Ethylbenzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
m,p-Xylene (ug/L)	0.200	1.000	0.840	1.000	0	5	0%	0.520	1.000	0.358	0.43	0.160	1.284	0.396
o-Xylene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Toluene (ug/L)	0.100	0.250	0.210	0.250	1	5	20%	0.140	0.250	0.065	0.31	0.029	0.291	0.129

**Table E-24**  
**Baseflow Data at Outfall 237B for WY2016 and WY2019**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (ug/L)	0.0125	0.0299	0.0	0.0169	4	6	67%	0.0125	0.0268	0.0	0.385	0.003	0.0	0.0
BOD (mg/L)	1	3.6	1.4	1	1	6	17%	1	2.3	1.1	0.741	0.433	2.5	0.3
Chloride (mg/L)	8.6	90.6	25.3	9.13	5	5	100%	8.63	58.072	36.5	1.446	16.337	70.6	-20.1
Conductivity (uS/cm)	261	281	272.0	273	6	6	100%	262.5	280.5	9.0	0.033	3.67	281.4	262.6
Hardness (mg CaCO3/L)	109	124	116.7	117.5	6	6	100%	110.5	122	5.4	0.047	2.22	122.4	111.0
pH (pH units)	7.1	7.7	7.4	7.4	6	6	100%	7.2	7.65	0.2	0.030	0.09	7.7	7.2
TSS (mg/L)	0.5	2.8	1.2	0.91	2	6	33%	0.5	2.3	0.9	0.758	0.38	2.2	0.3
Turbidity (NTU)	0.74	2.49	1.3	1.23	6	6	100%	0.825	1.99	0.6	0.465	0.26	2.0	0.7
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	2.900	3.480	3.107	3.060	6	6	100%	2.910	3.350	0.220	0.07	0.090	3.337	2.876
Phosphate, Ortho (mg/L)	0.028	0.051	0.034	0.030	6	6	100%	0.029	0.043	0.009	0.26	0.004	0.043	0.024
Phosphorus, Total (mg/L)	0.028	0.037	0.033	0.034	6	6	100%	0.030	0.036	0.003	0.09	0.001	0.036	0.030
Total Nitrogen (mg/L)	2.940	3.150	3.042	3.035	6	6	100%	2.965	3.125	0.080	0.03	0.033	3.126	2.957
<b>Metals</b>														
Cadmium (ug/L)	0.007	0.25	0.1	0.03	0	6	0%	0.0	0	0.1	1.175	0.05	0.2	0.0
Cadmium, Dissolved (ug/L)	0.0	0.25	0.1	0.0	0	6	0%	0.0	0	0.1	1.630	0.04	0.2	0.0
Copper (ug/L)	0.1235	0.677	0.325	0.28075	3	6	50%	0.1535	0.540	0.207	0.636	0.084	0.541	0.108
Copper, Dissolved (ug/L)	0.0	0.284	0.2	0.2	6	6	100%	0.1	0	0.1	0.483	0.03	0.3	0.1
Lead (ug/L)	0.0135	0.092	0	0.039	2	6	33%	0.0	0	0.0	0.622	0.01	0.1	0.0
Lead, Dissolved (ug/L)	0.0	0.07	0.0	0.0	4	6	67%	0.0	0	0.0	0.806	0.01	0.1	0.0
Mercury (ng/L)	0.0008	0.0	0.00	0.00	0	6	0%	0.00165	0.004	0.00	0.439	0.000	0.00	0.00
Mercury, Dissolved (ng/L)	0.0	0.0045	0.0	0.0	0	6	0%	0.0	0	0.0	0.478	0.00	0.0	0.0
Zinc (ug/L)	0.9	2.760	1.635	1.545	6	6	100%	1.045	2.315	0.646	0.395	0.264	2.312	0.958
Zinc, Dissolved (ug/L)	0.8	1.83	1.3	1.3	6	6	100%	0.9	2	0.4	0.321	0.17	1.8	0.9
<b>Insecticides</b>														
Carbaryl (ug/L)	0.030	0.030	0.030	0.030	0	3	0%	0.030	0.030	0.000	0.00	0.000	0.030	0.030
Chlorpyrifos (ug/L)	0.026	0.030	0.028	0.028	0	6	0%	0.026	0.030	0.002	0.08	0.001	0.030	0.025
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.005	0.005	0.005	1	6	17%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
Acenaphthene (ug/L)	0.0025	0.023	0.008	0.005	2	6	33%	0.004	0.015	0.008	0.98	0.003	0.016	0.000
Acenaphthylene (ug/L)	0.0015	0.005	0.004	0.005	0	6	0%	0.003	0.005	0.001	0.32	0.001	0.006	0.003
Anthracene (ug/L)	0.003	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.27	0.000	0.005	0.003
Fluorene (ug/L)	0.003	0.005	0.004	0.005	0	6	0%	0.003	0.005	0.001	0.23	0.000	0.005	0.003
Naphthalene (ug/L)	0.005	0.01	0.007	0.007	0	6	0%	0.005	0.009	0.002	0.27	0.001	0.009	0.005
Phenanthrene (ug/L)	0.004	0.013	0.006	0.005	0	6	0%	0.004	0.010	0.003	0.53	0.001	0.010	0.003
<b>Total LPAHs</b>	<b>0.019</b>	<b>0.05</b>	<b>0.028</b>	<b>0.024</b>	<b>3</b>	<b>6</b>	<b>50%</b>	<b>0.019</b>	<b>0.040</b>	<b>0.011</b>	<b>0.40</b>	<b>0.005</b>	<b>0.039</b>	<b>0.016</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.003	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.26	0.000	0.005	0.003
Benzo(a)pyrene (ug/L)	0.002	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.31	0.001	0.005	0.003
Benzo(b,k)fluoranthenes (ug/L)	0.005	0.011	0.008	0.008	0	6	0%	0.005	0.010	0.003	0.33	0.001	0.011	0.005
Benzo(g,h,i)perylene (ug/L)	0.003	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.27	0.000	0.005	0.003
Chrysene (ug/L)	0.002	0.005	0.004	0.004	0	6	0%	0.002	0.005	0.002	0.47	0.001	0.005	0.002
Dibenz(a,h)anthracene (ug/L)	0.002	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.31	0.001	0.005	0.003
Fluoranthene (ug/L)	0.004	0.005	0.004	0.004	0	6	0%	0.004	0.005	0.001	0.19	0.000	0.005	0.003
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.005	0.004	0.005	0	6	0%	0.004	0.005	0.001	0.22	0.000	0.005	0.003
Pyrene (ug/L)	0.003	0.005	0.004	0.004	0	6	0%	0.003	0.005	0.001	0.25	0.000	0.005	0.003
<b>Total HPAHs</b>	<b>0.022</b>	<b>0.03</b>	<b>0.026</b>	<b>0.025</b>	<b>0</b>	<b>6</b>	<b>0%</b>	<b>0.022</b>	<b>0.033</b>	<b>0.005</b>	<b>0.19</b>	<b>0.002</b>	<b>0.032</b>	<b>0.021</b>
<b>Total PAHs</b>	<b>0.041</b>	<b>0.08</b>	<b>0.05</b>	<b>0.047</b>	<b>3</b>	<b>6</b>	<b>50%</b>	<b>0.043</b>	<b>0.073</b>	<b>0.015</b>	<b>0.29</b>	<b>0.006</b>	<b>0.070</b>	<b>0.038</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.190	0.5	0.35	0.35	0	6	0%	0.191	0.51	0.175	0.498	0.072	0.536	0.168
Butyl benzyl phthalate (ug/L)	0.215	0.52	0.369	0.372	0	6	0%	0.223	0.513	0.156	0.424	0.064	0.533	0.205
Diethylphthalate (ug/L)	0.140	1	0.328	0.315	1	6	17%	0.159	0.510	0.180	0.55	0.074	0.517	0.139
Dimethyl phthalate (ug/L)	0.135	0.52	0.346	0.357	0	6	0%	0.168	0.513	0.183	0.531	0.075	0.538	0.153
Di-n-butylphthalate (ug/L)	0.138	0.52	0.326	0.327	0	6	0%	0.139	0.513	0.203	0.624	0.083	0.539	0.113
Di-n-Octyl phthalate (ug/L)	0.175	0.52	0.357	0.364	0	6	0%	0.196	0.513	0.170	0.475	0.069	0.536	0.179
<b>*Total Phthalates</b>	<b>0.000</b>	<b>0.5</b>	<b>0.08</b>	<b>0.000</b>	<b>1</b>	<b>6</b>	<b>17%</b>	<b>0.000</b>	<b>0.226</b>	<b>0.185</b>	<b>2.45</b>	<b>0.08</b>	<b>0.27</b>	<b>-0.12</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.009	0.050	0.031	0.034	1	6	17%	0.009	0.050	0.021	0.69	0.009	0.053	0.009
Dichlobenil (ug/L)	0.020	0.052	0.044	0.048	0	6	0%	0.033	0.051	0.012	0.27	0.005	0.057	0.031
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.015	0.050	0.022	0.015	0	5	0%	0.015	0.036	0.016	0.71	0.007	0.041	0.003
NWTPH-Gasoline (ug/L)	2.3	25.0	6.9	2.3	0	5	0%	2.3	15.9	10.1	1.47	4.5	19.5	-5.7
NWTPH-Heavy Oil (mg/L)	0.100	0.105	0.101	0.100	0	5	0%	0.100	0.103	0.002	0.02	0.001	0.104	0.098
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	10	68	31	20	4	5	80%	11	59	25	0.79	11	62	0
<b>BTEX</b>														
Benzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Ethylbenzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
m,p-Xylene (ug/L)	0.200	1.000	0.840	1.000	0	5	0%	0.520	1.000	0.358	0.43	0.160	1.284	0.396
o-Xylene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Toluene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137

**Table E-25  
Baseflow Data at Outfall 243 for WY2016 and WY2019**

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventional</b>														
Anionic Surfactants - MBAS (ug/L)	0.0267	0.0962	0.1	0.0586	7	7	100%	0.03216	0.09566	0.0	0.445	0.010	0.1	0.0
BOD (mg/L)	1	1	1.0	1	0	7	0%	1	1	0.0	0.000	0.000	1.0	1.0
Chloride (mg/L)	2490	13100	8143	8080	7	7	100%	3510	11900	3791	0.466	1433	11649	4636
Conductivity (uS/cm)	8080	35300	22685	23200	8	8	100%	12084	32990	9798	0.432	3464	30876	14494
Hardness (mg CaCO3/L)	808	3770	2214.8	1915	8	8	100%	1117.4	3497	1110.3	0.501	392.53	3142.9	1286.6
pH (pH units)	7	7.5	7.3	7.3	8	8	100%	7	7.43	0.2	0.025	0.07	7.4	7.1
TSS (mg/L)	4.92	21.8	13.7	14.9	8	8	100%	7.972	18.72	5.5	0.398	1.93	18.3	9.2
Turbidity (NTU)	7.36	27.3	15.3	14.8	7	7	100%	8.236	22.32	6.7	0.440	2.55	21.5	9.1
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.046	0.306	0.161	0.151	8	8	100%	0.077	0.258	0.088	0.55	0.031	0.234	0.087
Phosphate, Ortho (mg/L)	0.003	0.139	0.070	0.063	6	7	86%	0.023	0.120	0.048	0.69	0.018	0.115	0.025
Phosphorus, Total (mg/L)	0.181	0.566	0.310	0.267	7	7	100%	0.186	0.471	0.144	0.46	0.054	0.444	0.177
Total Nitrogen (mg/L)	0.420	0.790	0.541	0.480	8	8	100%	0.427	0.748	0.143	0.26	0.051	0.661	0.422
<b>Metals</b>														
Cadmium (ug/L)	0.0215	2.5	0.4	0.0705	3	8	38%	0.0	1	0.9	2.281	0.30	1.1	-0.3
Cadmium, Dissolved (ug/L)	0.0	1.25	0.2	0.1	2	8	25%	0.0	1	0.4	1.856	0.15	0.6	-0.1
Copper (ug/L)	2.53	10.500	5.456	4.89	7	7	100%	3.064	8.202	2.675	0.490	1.011	7.930	2.981
Copper, Dissolved (ug/L)	0.3	3.42	1.7	1.6	7	7	100%	0.5	3	1.1	0.635	0.41	2.7	0.7
Lead (ug/L)	0.788	25.4	5	2.655	8	8	100%	1.2	11	8.2	1.511	2.89	12.3	-1.4
Lead, Dissolved (ug/L)	0.0	1.81	0.3	0.1	3	8	38%	0.0	1	0.6	1.887	0.22	0.8	-0.2
Mercury (ng/L)	0.001	0.0	0.00	0.00	6	8	75%	0.001	0.00295	0.00	0.611	0.000	0.00	0.00
Mercury, Dissolved (ng/L)	0.0	0.0045	0.0	0.0	0	8	0%	0.0	0	0.0	0.257	0.00	0.0	0.0
Zinc (ug/L)	4.33	30.300	14.839	13.4	7	7	100%	7.336	23.1	8.220	0.554	3.107	22.441	7.236
Zinc, Dissolved (ug/L)	2.5	11.9	6.4	5.3	7	7	100%	3.0	10	3.3	0.519	1.26	9.5	3.3
<b>Insecticides</b>														
Carbaryl (ug/L)	0.030	0.030	0.030	0.030	0	7	0%	0.030	0.030	0.000	0.00	0.000	0.030	0.030
Chlorpyrifos (ug/L)	0.026	0.031	0.026	0.026	0	8	0%	0.026	0.027	0.002	0.06	0.001	0.028	0.025
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.005	0.005	0.005	0.005	0	8	0%	0.005	0.005	0.000	0.00	0.000	0.005	0.005
Acenaphthene (ug/L)	0.005	0.132	0.032	0.00925	5	8	63%	0.005	0.089	0.046	1.45	0.016	0.070	-0.007
Acenaphthylene (ug/L)	0.005	0.007	0.005	0.005	1	8	13%	0.005	0.006	0.001	0.13	0.000	0.006	0.005
Anthracene (ug/L)	0.005	0.053	0.019	0.013	6	8	75%	0.006	0.041	0.017	0.88	0.006	0.033	0.005
Fluorene (ug/L)	0.005	0.005	0.005	0.005	1	8	13%	0.005	0.005	0.000	0.04	0.000	0.005	0.005
Naphthalene (ug/L)	0.003	0.01	0.006	0.005	1	8	13%	0.004	0.010	0.003	0.48	0.001	0.009	0.004
Phenanthrene (ug/L)	0.005	0.019	0.008	0.006	5	8	63%	0.005	0.012	0.005	0.63	0.002	0.012	0.004
<b>Total LPAHs</b>	<b>0.019</b>	<b>0.22</b>	<b>0.072</b>	<b>0.045</b>	<b>7</b>	<b>8</b>	<b>88%</b>	<b>0.022</b>	<b>0.163</b>	<b>0.071</b>	<b>0.98</b>	<b>0.025</b>	<b>0.132</b>	<b>0.013</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.003	0.006	0.005	0.005	2	8	25%	0.003	0.006	0.001	0.25	0.000	0.006	0.004
Benzo(a)pyrene (ug/L)	0.004	0.007	0.005	0.005	2	8	25%	0.005	0.006	0.001	0.19	0.000	0.006	0.004
Benzo(b,k)fluoranthenes (ug/L)	0.006	0.018	0.011	0.010	1	8	13%	0.009	0.013	0.003	0.31	0.001	0.013	0.008
Benzo(g,h,i)perylene (ug/L)	0.003	0.011	0.006	0.005	5	8	63%	0.004	0.010	0.003	0.52	0.001	0.008	0.003
Chrysene (ug/L)	0.005	0.014	0.007	0.005	2	8	25%	0.005	0.011	0.003	0.51	0.001	0.010	0.004
Dibenz(a,h)anthracene (ug/L)	0.004	0.005	0.005	0.005	0	8	0%	0.005	0.005	0.000	0.07	0.000	0.005	0.005
Fluoranthene (ug/L)	0.008	0.032	0.013	0.009	8	8	100%	0.008	0.022	0.008	0.65	0.003	0.020	0.006
Indeno(1,2,3-cd)pyrene (ug/L)	0.005	0.008	0.005	0.005	1	8	13%	0.005	0.006	0.001	0.21	0.000	0.006	0.004
Pyrene (ug/L)	0.007	0.053	0.018	0.012	8	8	100%	0.009	0.031	0.015	0.85	0.005	0.030	0.005
<b>Total HPAHs</b>	<b>0.036</b>	<b>0.13</b>	<b>0.060</b>	<b>0.044</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.037</b>	<b>0.109</b>	<b>0.035</b>	<b>0.59</b>	<b>0.012</b>	<b>0.089</b>	<b>0.030</b>
<b>Total PAHs</b>	<b>0.059</b>	<b>0.35</b>	<b>0.13</b>	<b>0.095</b>	<b>8</b>	<b>8</b>	<b>100%</b>	<b>0.061</b>	<b>0.235</b>	<b>0.099</b>	<b>0.75</b>	<b>0.035</b>	<b>0.215</b>	<b>0.050</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.197	5.6	1.10	0.51	2	8	25%	0.385	2.04	1.821	1.654	0.644	2.623	-0.421
Butyl benzyl phthalate (ug/L)	0.238	0.53	0.478	0.510	0	8	0%	0.425	0.518	0.097	0.204	0.034	0.559	0.396
Diethylphthalate (ug/L)	0.182	1	0.471	0.510	0	8	0%	0.408	0.518	0.117	0.25	0.041	0.569	0.373
Dimethyl phthalate (ug/L)	0.207	0.53	0.474	0.510	0	8	0%	0.416	0.518	0.108	0.228	0.038	0.564	0.384
Di-n-butylphthalate (ug/L)	0.142	0.52	0.352	0.365	3	8	38%	0.181	0.512	0.171	0.485	0.060	0.495	0.209
Di-n-Octyl phthalate (ug/L)	0.222	0.53	0.476	0.510	0	8	0%	0.420	0.518	0.103	0.216	0.036	0.562	0.390
<b>*Total Phthalates</b>	<b>0.000</b>	<b>5.8</b>	<b>0.84</b>	<b>0.099</b>	<b>4</b>	<b>8</b>	<b>50%</b>	<b>0.000</b>	<b>2.070</b>	<b>2.017</b>	<b>2.41</b>	<b>0.71</b>	<b>2.52</b>	<b>-0.85</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.009	0.570	0.110	0.050	1	8	13%	0.038	0.206	0.187	1.70	0.066	0.266	-0.046
Dichlobenil (ug/L)	0.047	0.053	0.051	0.051	0	8	0%	0.049	0.052	0.002	0.04	0.001	0.052	0.049
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.015	0.050	0.022	0.015	0	5	0%	0.015	0.036	0.016	0.71	0.007	0.041	0.003
NWTPH-Gasoline (ug/L)	2.3	25.0	6.9	2.3	0	5	0%	2.3	15.9	10.1	1.47	4.5	19.5	-5.7
NWTPH-Heavy Oil (mg/L)	0.100	0.105	0.101	0.100	0	5	0%	0.100	0.103	0.002	0.02	0.001	0.104	0.098
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	10	790	169	13	3	5	60%	10	482	347	2.06	155	600	-263
<b>BTEX</b>														
Benzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Ethylbenzene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
m,p-Xylene (ug/L)	0.200	1.000	0.840	1.000	0	5	0%	0.520	1.000	0.358	0.43	0.160	1.284	0.396
o-Xylene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137
Toluene (ug/L)	0.100	0.250	0.220	0.250	0	5	0%	0.160	0.250	0.067	0.30	0.030	0.303	0.137

Table E-26  
Baseflow Data at Outfall 245 and Outfall 254 WY2019

	Minimum	Maximum	Arithmetic Mean	Median	# of Detects	Count	% Detects	10th Per	90th Per	Standard Deviation	Coefficient of Variation	Standard Error	95% UCL	95% LCL
<b>Conventionals</b>														
Anionic Surfactants - MBAS (ug/L)	0.0251	0.0553	0.0	0.0468	5	5	100%	0.03106	0.05222	0.0	0.264	0.005	0.1	0.0
BOD (mg/L)	1	6.2	2.0	1	1	5	20%	1	4.12	2.3	1.140	1.040	4.9	-0.8
Chloride (mg/L)	18.2	13900	4485	3980	5	5	100%	21	10140	5673	1.265	2537	11529	-2560
Conductivity (uS/cm)	6170	38100	22695	22950	6	6	100%	9535	35600	13122	0.578	5357	36466	8924
Hardness (mg CaCO3/L)	728	4430	2581.3	2600	6	6	100%	1094	4050	1492.6	0.578	609.34	4147.7	1015.0
pH (pH units)	7.3	7.6	7.5	7.45	6	6	100%	7.35	7.6	0.1	0.016	0.05	7.6	7.3
TSS (mg/L)	2	20.8	8.4	7	6	6	100%	2.205	15.95	7.4	0.880	3.01	16.1	0.6
Turbidity (NTU)	2.75	13.8	7.1	5.06	5	5	100%	3.154	12.32	4.7	0.662	2.10	12.9	1.3
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	0.196	3.680	0.962	0.334	5	5	100%	0.210	2.356	1.521	1.58	0.680	2.851	-0.926
Phosphate, Ortho (mg/L)	0.037	0.176	0.096	0.097	5	5	100%	0.051	0.145	0.051	0.53	0.023	0.160	0.032
Phosphorus, Total (mg/L)	0.080	0.595	0.254	0.171	4	4	100%	0.104	0.471	0.231	0.91	0.116	0.622	-0.114
Total Nitrogen (mg/L)	0.430	3.350	1.522	0.980	5	5	100%	0.566	2.842	1.194	0.78	0.534	3.005	0.039
<b>Metals</b>														
Cadmium (ug/L)	0.072	1.1	0.3	0.151	4	6	67%	0.1	1	0.4	1.360	0.16	0.7	-0.1
Cadmium, Dissolved (ug/L)	0.0	0.183	0.1	0.1	3	6	50%	0.0	0	0.1	0.623	0.03	0.2	0.0
Copper (ug/L)	1.43	23.700	11.977	12.85	6	6	100%	3.38	19.700	8.042	0.671	3.283	20.416	3.537
Copper, Dissolved (ug/L)	0.6	3.63	1.7	1.3	6	6	100%	0.6	3	1.3	0.759	0.52	3.0	0.3
Lead (ug/L)	0.201	2.23	1	0.678	6	6	100%	0.2	2	0.8	0.899	0.31	1.6	0.0
Lead, Dissolved (ug/L)	0.0	0.0825	0.1	0.1	0	6	0%	0.0	0	0.0	0.563	0.01	0.1	0.0
Mercury (ng/L)	0.0008	0.0	0.00	0.00	0	6	0%	0.0024	0.004	0.00	0.377	0.001	0.00	0.00
Mercury, Dissolved (ng/L)	0.0	0.0045	0.0	0.0	0	6	0%	0.0	0	0.0	0.377	0.00	0.0	0.0
Zinc (ug/L)	9.39	125.000	50.448	28.7	6	6	100%	15.345	107.3	46.221	0.916	18.869	98.954	1.943
Zinc, Dissolved (ug/L)	4.3	74.9	28.7	23.2	6	6	100%	5.1	58	26.4	0.921	10.79	56.4	1.0
<b>Insecticides</b>														
Chlorpyrifos (ug/L)	0.030	0.031	0.030	0.030	0	6	0%	0.030	0.031	0.000	0.01	0.000	0.030	0.030
<b>PAHs</b>														
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.0015	0.029	0.008	0.005	2	6	33%	0.003	0.017	0.010	1.21	0.004	0.019	-0.002
Acenaphthene (ug/L)	0.0025	0.035	0.015	0.012	3	6	50%	0.004	0.031	0.013	0.87	0.005	0.029	0.001
Acenaphthylene (ug/L)	0.0015	0.005	0.004	0.005	0	6	0%	0.002	0.005	0.002	0.47	0.001	0.006	0.002
Anthracene (ug/L)	0.003	0.017	0.009	0.008	5	6	83%	0.005	0.014	0.005	0.53	0.002	0.014	0.004
Fluorene (ug/L)	0.003	0.013	0.005	0.004	1	6	17%	0.003	0.009	0.004	0.76	0.002	0.009	0.001
Naphthalene (ug/L)	0.006	0.02	0.010	0.009	1	6	17%	0.006	0.016	0.006	0.59	0.002	0.016	0.004
Phenanthrene (ug/L)	0.004	0.037	0.016	0.012	5	6	83%	0.007	0.029	0.012	0.76	0.005	0.028	0.003
<b>Total LPAHs</b>	<b>0.026</b>	<b>0.12</b>	<b>0.057</b>	<b>0.049</b>	<b>6</b>	<b>6</b>	<b>100%</b>	<b>0.033</b>	<b>0.090</b>	<b>0.034</b>	<b>0.59</b>	<b>0.014</b>	<b>0.093</b>	<b>0.022</b>
<b>HPAHs in ug/L</b>														
Benzo(a)anthracene (ug/L)	0.003	0.004	0.003	0.004	0	6	0%	0.003	0.004	0.001	0.16	0.000	0.004	0.003
Benzo(a)pyrene (ug/L)	0.002	0.009	0.004	0.004	1	6	17%	0.002	0.006	0.003	0.66	0.001	0.007	0.001
Benzo(b,k)fluoranthenes (ug/L)	0.005	0.019	0.008	0.006	1	6	17%	0.005	0.013	0.006	0.73	0.002	0.014	0.002
Benzo(g,h,i)perylene (ug/L)	0.003	0.008	0.004	0.003	1	6	17%	0.003	0.006	0.002	0.53	0.001	0.006	0.002
Chrysene (ug/L)	0.002	0.018	0.005	0.002	2	6	33%	0.002	0.012	0.006	1.24	0.003	0.012	-0.002
Dibenz(a,h)anthracene (ug/L)	0.002	0.004	0.003	0.004	0	6	0%	0.002	0.004	0.001	0.29	0.000	0.004	0.002
Fluoranthene (ug/L)	0.004	0.020	0.007	0.004	2	6	33%	0.004	0.014	0.007	0.95	0.003	0.014	0.000
Indeno(1,2,3-cd)pyrene (ug/L)	0.003	0.005	0.004	0.005	0	6	0%	0.003	0.005	0.001	0.27	0.000	0.005	0.003
Pyrene (ug/L)	0.008	0.038	0.016	0.009	6	6	100%	0.009	0.031	0.012	0.76	0.005	0.029	0.003
<b>Total HPAHs</b>	<b>0.030</b>	<b>0.11</b>	<b>0.054</b>	<b>0.039</b>	<b>5</b>	<b>6</b>	<b>83%</b>	<b>0.032</b>	<b>0.091</b>	<b>0.031</b>	<b>0.58</b>	<b>0.013</b>	<b>0.087</b>	<b>0.021</b>
<b>Total PAHs</b>	<b>0.060</b>	<b>0.19</b>	<b>0.11</b>	<b>0.092</b>	<b>6</b>	<b>6</b>	<b>100%</b>	<b>0.069</b>	<b>0.173</b>	<b>0.051</b>	<b>0.46</b>	<b>0.021</b>	<b>0.165</b>	<b>0.058</b>
<b>Phthalates</b>														
bis(2-Ethylhexyl)phthalate (ug/L)	0.189	2.8	0.63	0.19	1	6	17%	0.190	1.51	1.072	1.700	0.438	1.756	-0.495
Butyl benzyl phthalate (ug/L)	0.214	0.24	0.228	0.233	0	6	0%	0.215	0.238	0.011	0.049	0.005	0.240	0.217
Diethylphthalate (ug/L)	0.140	0	0.167	0.178	0	6	0%	0.140	0.182	0.021	0.13	0.009	0.189	0.145
Dimethyl phthalate (ug/L)	0.135	0.21	0.182	0.203	0	6	0%	0.135	0.208	0.036	0.200	0.015	0.220	0.143
Di-n-butylphthalate (ug/L)	0.142	0.51	0.232	0.145	2	6	33%	0.142	0.408	0.150	0.650	0.061	0.389	0.074
Di-n-Octyl phthalate (ug/L)	0.174	0.22	0.205	0.218	0	6	0%	0.175	0.223	0.024	0.116	0.010	0.230	0.180
<b>*Total Phthalates</b>	<b>0.000</b>	<b>3.1</b>	<b>0.61</b>	<b>0.000</b>	<b>2</b>	<b>6</b>	<b>33%</b>	<b>0.000</b>	<b>1.818</b>	<b>1.253</b>	<b>2.07</b>	<b>0.51</b>	<b>1.92</b>	<b>-0.71</b>
<b>Herbicides</b>														
2,4-D (ug/L)	0.009	0.026	0.014	0.009	2	6	33%	0.009	0.024	0.008	0.59	0.003	0.022	0.005
Dichlobenil (ug/L)	0.020	0.047	0.037	0.046	0	6	0%	0.020	0.047	0.013	0.36	0.005	0.051	0.023
<b>TPH</b>														
NWTPH-Diesel (mg/L)	0.050	0.050	0.050	0.050	0	2	0%	0.050	0.050	0.000	0.00	0.000	0.050	0.050
NWTPH-Gasoline (ug/L)	25.0	25.0	25.0	25.0	0	2	0%	25.0	25.0	0.0	0.00	0.0	25.0	25.0
NWTPH-Heavy Oil (mg/L)	0.100	0.100	0.100	0.100	0	2	0%	0.100	0.100	0.000	0.00	0.000	0.100	0.100
<b>Bacteria</b>														
Coliform, Fecal (CFU/100 ml)	20	45	33	33	2	2	100%	23	43	18	0.54	13	191	-126
<b>BTEX</b>														
Benzene (ug/L)	0.100	0.100	0.100	0.100	0	2	0%	0.100	0.100	0.000	0.00	0.000	0.100	0.100
Ethylbenzene (ug/L)	0.100	0.100	0.100	0.100	0	2	0%	0.100	0.100	0.000	0.00	0.000	0.100	0.100
m,p-Xylene (ug/L)	0.200	0.200	0.200	0.200	0	2	0%	0.200	0.200	0.000	0.00	0.000	0.200	0.200
o-Xylene (ug/L)	0.100	0.100	0.100	0.100	0	2	0%	0.100	0.100	0.000	0.00	0.000	0.100	0.100
Toluene (ug/L)	0.100	0.100	0.100	0.100	0	2	0%	0.100	0.100	0.000	0.00	0.000	0.100	0.100