

**Table D-1.1**  
**Stormwater Analytical Data for Outfall 230 WY2021 - Composite Samples**

	Storm 1 11/6/2020	Storm 2 11/13/2020	Storm 3 12/8/2020	Storm 4 12/31/2020	Storm 5 1/12/2021	Storm 6 2/1/2021	Storm 7 2/22/2021	Storm 8 3/5/2021	Storm 9 3/25/2021	Storm 10 4/7/2021	Storm 11 5/27/2021	Storm 12 6/14/2021
<b>Conventionals</b>												
Anionic Surfactants - MBAS (ug/L)	-	-	24.0 J	25.1	12.7 J	24.9 J	-	-	40.4	-	65.6	57
BOD (mg/L)	-	-	4.1	2.0	2.0 U	2.5	-	-	2.9	7.8	8.8 J	4.2
Chloride (mg/L)	-	-	14.0	10.6	2.64	9.06	-	-	13.6	-	4.16	2.01 UJ
Conductivity (uS/cm)	68.2	50.0	84.6	81.0	31.8	77.6	70.9	259	81.5	144	40.7	30.5
Hardness (mg CaCO3/L)	17.7	13.5	13.6	12.7	9.34	15.9	18.1	30.3	14.1	23.4	14.7	11.8
pH (pH Units)	7.3	7.0	7.7	8.0	6.6	7.30	7.1	7.8	7.1	6.9	7.1	6
Total Suspended Solids (mg/L)	22.3	36.6	12.5	25.6	10.3	17.8	27.0	14.8	13.8	89.8	163	24.7
Turbidity (NTU)	-	-	13.2	14.1	6.48	13.9	-	-	8.43	-	48.7	12.4
<b>Nutrients</b>												
Nitrate+Nitrite as N (mg/L)	0.079	-	0.152	0.105	0.075	0.12	0.12	-	0.142	0.294	0.162	0.107
Phosphate, Ortho (mg/L)	0.042	0.068	0.034	0.018	0.014 J	0.019	0.017	0.068	0.027 J	0.056	0.037	0.024
Phosphorus, Total (mg/L)	0.133	-	0.062 J	0.059	0.049	0.064	0.096	-	0.071	0.207	0.412	0.123
Total Nitrogen (mg/L)	0.59	-	0.57	0.36	0.20	0.47	0.33	-	0.48	0.98	1.05	0.39
<b>Metals</b>												
Cadmium (ug/L)	0.084 J	0.109 J	0.063 J	0.063 U	0.063 U	0.065 J	0.063 U	0.090 J	0.064 J	0.143 J	0.175 J	0.063 U
Cadmium, Dissolved (ug/L)	0.049 J	0.045 J	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.046 J	0.040 U	0.040 U	0.040 U	0.040 U
Copper (ug/L)	8.36	8.32	7.82	4.64	3.72	6.2	6.78	13.80	10.0	22.1	23.8	7.35
Copper, Dissolved (ug/L)	4.65	2.67	3.31	1.78	1.52	2.32	2.3	8.95	4.03	9.82	4.71	3.93
Lead (ug/L)	5.71	8.50	4.69	4.00	3.74	5.39	6.22	8.14	4.32	16.5	28.7	5.41
Lead, Dissolved (ug/L)	0.946	0.549	0.432	0.194	0.164	0.242	0.221	0.902	0.286	0.612	0.644	0.340
Mercury (ug/L)	0.0080 U	0.0080 U	0.0016 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0095 J	0.027	0.008 U
Mercury, Dissolved (ug/L)	0.0090 U	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.009 U	0.009 U	0.009 U
Zinc (ug/L)	66.2	68.1	73.9	44.2	35.1	58.9	49.3	102	61.0	174	134	55.3
Zinc, Dissolved (ug/L)	40.3	30.3	47.0	29.1	22.7	35.1	23.0	63.4	40.5	77.3	26.1	30.8
<b>Insecticides</b>												
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
<b>LPAHs</b>												
2-Methylnaphthalene (ug/L)	0.010 U	0.010 U	0.203	0.016	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.016	0.009 U
Acenaphthene (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Acenaphthylene (ug/L)	0.010 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Fluorene (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.009 U	0.009 U
Naphthalene (ug/L)	0.027 U	0.026 U	0.250	0.041	0.026 U	0.026 U	0.027 U	0.026 U	0.026 U	0.034 J	0.026 U	0.026 U
Phenanthrene (ug/L)	0.021	0.029	0.017 U	0.031	0.020	0.030	0.030	0.038	0.018	0.078	0.068	0.022
Total LPAHs	0.0555	0.063	0.279	0.093	0.054	0.064	0.064	0.072	0.052	0.132	0.101	0.055
<b>HPAHs</b>												
Benzo(a)anthracene (ug/L)	0.006 U	0.017	0.006 U	0.011	0.009 J	0.013	0.017	0.006 U	0.006 U	0.028	0.052	0.006 U
Benzo(a)pyrene (ug/L)	0.011	0.023	0.003 U	0.014	0.011	0.017	0.023	0.003 U	0.009 J	0.041	0.078	0.014
Benzo(b,k)fluoranthene (ug/L)	0.037	0.060	0.026 J	0.039	0.031	0.046	0.055	0.037	0.028 J	0.111	0.205	0.011 U
Benzo(g,h,i)perylene (ug/L)	0.014	0.033	0.016	0.021	0.012	0.028	0.028	0.02	0.020	0.060	0.101 J	0.018
Chrysene (ug/L)	0.022	0.037	0.008 U	0.024	0.018	0.033	0.038	0.025	0.017	0.074	0.096	0.025
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.018	0.006 U
Fluoranthene (ug/L)	0.027	0.053	0.026	0.041	0.029	0.046	0.061	0.032	0.026	0.115	0.178	0.032
Indeno(1,2,3-c,d)pyrene (ug/L)	0.005 U	0.025	0.005 U	0.014	0.010	0.018	0.024	0.005 U	0.012	0.037	0.078	0.013
Pyrene (ug/L)	0.025	0.045	0.027	0.040	0.031	0.046	0.051	0.043	0.028	0.112	0.170	0.032
Retene (ug/L)	0.009 J	0.007 J	0.010	0.006 J	0.005 U	0.005 U	0.005 U	0.014	0.007 J	0.022	0.020	0.005 U
Total HPAHs	0.145	0.296	0.109	0.207	0.154	0.250	0.300	0.167	0.146	0.581	0.976	0.146
TOTAL PAHs	0.200	0.359	0.388	0.300	0.208	0.314	0.364	0.239	0.198	0.713	1.077	0.201
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate (ug/L)	1.50	1.26	1.48	1.11	1.06	1.46	1.04	3.25	1.34	4.14	2.63	1.38
Butyl benzyl phthalate (ug/L)	0.422 U	0.411 U	0.415 U	0.411 U	0.409 U	0.410 U	0.414 U	0.414 U	0.413 U	0.406 U	0.407 U	0.405 U
Diethyl phthalate (ug/L)	0.327 U	0.318 U	0.322 U	0.319 U	0.317 U	0.317 U	0.321 U	0.321 U	0.320 U	0.314 U	0.315 U	0.314 U
Dimethyl phthalate (ug/L)	0.355 U	0.346 U	0.35 U	0.347 U	0.344 U	0.345 U	0.349 U	0.349 U	0.348 U	0.342 U	0.342 U	0.341 U
Di-n-butyl phthalate (ug/L)	0.450 J	0.632 J	0.361 J	0.300 U	0.503 J	0.299 U	0.302 U	0.315 J	0.301 U	0.296 U	0.297 U	0.296 U
Di-n-octyl phthalate (ug/L)	0.377 U	0.367 U	0.371 U	0.367 UJ	0.365 U	0.366 U	0.370 U	0.370 U	0.369 U	0.362 U	0.363 U	0.362 U
Total Phthalates	1.95	1.89	1.84	1.11	1.56	1.46	1.04	3.57	1.34	4.14	2.63	1.38
<b>Herbicides</b>												
Dichlobenil (ug/L)	0.031 J	0.021 U	0.021 U	0.130	0.149	0.046 J	0.133	0.106	0.183	0.146	0.366	0.070

**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.  
**R** – The value is considered unusable.

**Table D-1.2  
Stormwater Analytical Data for Outfall 230 WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	0.28	<b>0.31</b>	<b>0.58</b>
<b>Bacteria<sup>1</sup></b>			
Coliform, Fecal (CFU/100mL)	<b>30000</b>	<b>3000 J</b>	<b>1300000</b>
E. Coli (CFU/100mL)	<b>90</b>	<b>1700</b>	<b>5400</b>
Enterococci (CFU/100mL)	<b>7700</b>	<b>9300</b>	<b>210000</b>

**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.  
 R – The value is considered unusable.  
 E - Exceeds value.

Table D-2.1  
Stormwater Analytical Data for Outfall 235 WY2021 - Composite Samples

	Storm 1 10/13/2020	Storm 2 11/5/2020	Storm 3 11/13/2020	Storm 4 12/8/2020	Storm 5 12/27/2020	Storm 6 1/12/2021	Storm 7 2/2/2021	Storm 8 2/22/2021	Storm 9 3/4/2021	Storm 10 3/25/2021	Storm 11 4/8/2021	Storm 12 5/27/2021	Storm 13 6/13/2021	Rejected Storm 14 9/18/2021	Storm 15 9/30/2021
<b>Conventionals</b>															
Anionic Surfactants - MBAS (ug/L)	31.8	-	-	19.2 J	-	11.5 J	21.4 J	22.8 J	-	38.4	80.0	74.2	56.6	-	-
BOD (mg/L)	-	-	-	3.1	-	2.0 U	3.6	-	6.9	2.3	8.4 J	7.9	4.1	-	-
Chloride (mg/L)	2.14	-	-	32.0	-	3.53	9.24	9.8	-	15.7	72	4.82	2.72 UJ	-	-
Conductivity (uS/cm)	165	96.2	58.3	142	328	64.7	102	80.6	394	113	307	83.2	55.2	67.4	67.6
Hardness (mg CaCO3/L)	15.7	31.6	17.5	26.5	39.4	16.7	30.3	21.5	49.6	23.8	43.7	22.9	19.9	21.8	19.8
pH (pH Units)	8.5	7.1	7.1	7.7	7.4	7.1	6.7	7.1	7.6	7.2	7.0	6.8	6.2	6	6.3
Total Suspended Solids (mg/L)	29.9	-	47.6	15.1	10.8	8.48	20.1	36.2	17.0	11.7	71.4	53.9	28.9	84.4	48
Turbidity (NTU)	13.5	-	-	15.2	-	10.5	15.8	19.6	-	8.09	23.6	38.8	11.1	-	-
<b>Nutrients</b>															
Nitrate+Nitrite as N (mg/L)	0.163	0.228	0.122	0.266	0.251	0.155	0.236	0.132	1.65	0.226	0.422	0.468	0.201	-	1.45
Phosphate, Ortho (mg/L)	0.035	0.041	0.034	0.034	0.020	0.017	0.022	0.016	0.04	0.031 J	0.043 J	0.054	0.042	-	-
Phosphorus, Total (mg/L)	0.083	0.094	0.089	0.071	0.060	0.048	0.065	0.103	0.108	0.057	0.173	0.221	0.080	-	0.116
Total Nitrogen (mg/L)	0.49	0.64	0.55	0.63	0.67 J	0.249	0.43	0.49	1.04	0.43	0.90	0.99	0.76	-	1.79
<b>Metals</b>															
Cadmium (ug/L)	0.104 J	0.063 U	0.097 J	0.063 U	0.063 U	0.063 U	0.063 U	0.069 J	0.072 J	0.063 U	0.121 J	0.167 J	0.063 U	0.091 J	0.101 J
Cadmium, Dissolved (ug/L)	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U
Copper (ug/L)	19.0	19.7	16.4	19.4	13.4	10.3	16.3	16.4	26.6	17.7	45.5	54.7	18.1	25.8	21.80
Copper, Dissolved (ug/L)	7.24	13.5	6.89	9.81	7.56	4.96	6.55	5.74	15.9	10.7	12.5	11.8	10.6	14.0	9.95
Lead (ug/L)	25.6	31.7	31.1	33.2	21.3	18.3	24.1	24.9	27.4	24.2	59	166	28.9	21.1	34.7
Lead, Dissolved (ug/L)	5.20	13.8	7.94	6.04	5.43	3.26	3.25	2.53	5.57	5.65	4.00	5.57	7.71	3.64	4.170
Mercury (ug/L)	0.0080 U	0.0080 U	0.008 U	0.0016 U	0.0080 UJ	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0085 J	0.0080 U	0.0080 U	0.0085 J	0.0080 U
Mercury, Dissolved (ug/L)	0.009 U	0.0090 U	0.009 U	0.0018 U	0.0090 UJ	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	58.8	44.1	62.5	59.3	50.9	36.8	50.7	62.8	87.2	53.3	163	152	50.3	81.2	80.7
Zinc, Dissolved (ug/L)	23.3	28.7	22.1	32.4	36.1	19.2	21.9	19.7	36.1	30.6	38.7	31.3	26.2	42.9	26.9
<b>Insecticides</b>															
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
<b>LPAHs</b>															
2-Methylnaphthalene (ug/L)	0.014	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.016	0.015	0.014	0.014	0.011	0.010 U	0.009 U	0.010 U	0.010 U
Acenaphthene (ug/L)	0.010 U	0.011	0.010 U	0.012	0.010 U	0.010 U	0.021	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.010 U	0.010 U
Acenaphthylene (ug/L)	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.023	0.016	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Fluorene (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.009 U	0.010 U	0.010 U	0.009 U	0.009 U	0.010 U	0.009 U	0.010 U	0.010 U
Naphthalene (ug/L)	0.031	0.026 U	0.026 U	0.027 U	0.032	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.028 J	0.026 U	0.026 U	0.016 U	0.016 U
Phenanthrene (ug/L)	0.036	0.017 U	0.025	0.022	0.026	0.022	0.029	0.030	0.017 U	0.022	0.065	0.050	0.017 U	0.024	0.028
Total LPAHs	0.088	0.048	0.059	0.063	0.079	0.072	0.088	0.064	0.042	0.055	0.113	0.084	0.041	-	0.053
<b>HPAHs</b>															
Benzo(a)anthracene (ug/L)	0.015	0.008 J	0.017	0.006 U	0.006 U	0.020	0.019	0.022	0.006 U	0.009 J	0.028	0.031	0.006 U	0.006 U	0.009 J
Benzo(a)pyrene (ug/L)	0.017	0.003 U	0.017	0.007 J	0.008 J	0.020	0.021	0.023	0.003 U	0.010	0.040	0.041	0.010	0.008 J	0.015
Benzo(b,k)fluoranthene (ug/L)	0.048	0.026 J	0.045	0.024 J	0.023 J	0.056	0.055	0.056	0.038	0.028 J	0.120	0.116	0.028 J	0.026 J	0.045
Benzo(g,h,i)perylene (ug/L)	0.032	0.012	0.027	0.019	0.015	0.020	0.032	0.034	0.027	0.021	0.063	0.072	0.016	0.015	0.019 J
Chrysene (ug/L)	0.026	0.016	0.034	0.008 U	0.016	0.037	0.038	0.046	0.028	0.021	0.081	0.077	0.020	0.016	0.028
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.012	0.006 U	0.006 U	0.006 U
Fluoranthene (ug/L)	0.041	0.024	0.044	0.030	0.029	0.050	0.054	0.062	0.042	0.031	0.120	0.113	0.030	0.023	0.046
Indeno(1,2,3-c,d)pyrene (ug/L)	0.018	0.005 U	0.017	0.005 U	0.005 U	0.018	0.020	0.023	0.013	0.011	0.037	0.052	0.005 U	0.009 J	0.013
Pyrene (ug/L)	0.058	0.029	0.048	0.038	0.033	0.054	0.063	0.062	0.063	0.039	0.130	0.119	0.034	0.025	0.043
Retene (ug/L)	0.008 J	0.007 J	0.009 J	0.009 J	0.008 J	0.005 U	0.013	0.008 J	0.018	0.008 J	0.020	0.018	0.005 U	0.007 J	0.007 J
Total HPAHs	0.258	0.122	0.252	0.1305	0.133	0.278	0.305	0.331	0.219	0.173	0.622	0.633	0.147	-	0.221
Total PAHs	0.346	0.170	0.311	0.1935	0.211	0.350	0.393	0.3945	0.261	0.228	0.735	0.717	0.188	-	0.274
<b>Phthalates</b>															
Bis(2-ethylhexyl) phthalate (ug/L)	2.04 J	0.969 J	0.852 J	1.18	0.907 J	0.723 J	0.965 J	1.03	2.65	0.903 J	3.21	2.19	1.07	0.817 U	1.09
Butyl benzyl phthalate (ug/L)	1.14	0.409 U	0.749 J	0.855 J	0.713 J	0.532 J	0.53 J	0.665 J	1.71	0.741 J	0.669 J	0.411 U	0.402 U	0.416 U	0.410 U
Diethyl phthalate (ug/L)	0.316 U	0.317 U	0.316 U	0.325 U	0.317 U	0.315 U	0.315 U	0.347 U	1.11	0.775 J	0.734 J	1.04	0.452 J	0.322 U	0.318 U
Dimethyl phthalate (ug/L)	0.344 U	0.345 U	0.343 U	0.354 U	0.345 U	0.342 U	0.34 U	0.347 U	0.343 U	0.342 U	0.341 U	0.347 U	0.338 U	0.35 U	0.346 U
Di-n-butyl phthalate (ug/L)	0.298 U	0.327 J	0.298 U	0.378 J	0.493 J	0.297 U	0.294 U	0.301 U	0.313 J	0.297 U	0.295 U	0.3 U	0.293 U	0.303 U	0.299 U
Di-n-octyl phthalate (ug/L)	0.364 U	0.366 U	0.364 U	0.375 U	0.366 U	0.363 U	0.36 U	0.368 U	0.364 U	0.363 U	0.361 U	0.367 U	0.359 U	0.371 U	0.366 U
Total Phthalates	3.18	1.30	1.60	2.41	2.113	1.255	2.45	2.683	5.78	2.419	4.61	3.23	1.52	-	1.09
<b>Herbicides</b>															
Dichlobenil (ug/L)	0.020 U	0.020 U	0.020 U	0.021 U	0.020 U	0.020 U	0.054	0.026 J	0.047 J	0.044 J	0.057	0.025 J	0.147	0.016 J	0.017 J

**Bo**ld - The analyte was present in the sample.  
**U** - The analyte was not detected at or above the reported value.  
**J** - The analyte was not detected at or above the reported estimated value.  
**J** - The analyte was positively identified. The associated value is an estimate.  
**R** - The value is considered unusable.  
**E** - Exceeds value

**Table D-2.2**  
**Stormwater Analytical Data for Outfall 235 WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	<b>0.21</b>	<b>0.36</b>	<b>1.4</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>5000</b>	<b>2300</b>	<b>80000</b>
E. Coli (CFU/100mL)	<b>5000</b>	<b>1300</b>	2400 R
Enterococci (CFU/100mL)	<b>26000</b>	<b>17000</b>	<b>70000</b>

**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.

R – The value is considered unusable.

E - Exceeds value.

**Table D-3.1  
Stormwater Analytical Data for Outfall 237A WY2021 - Composite Samples**

	Storm 1	Storm 2	Storm 3	Storm 4	Storm 5	Storm 6	Storm 7	Storm 8	Storm 9	Storm 10	Storm 11
	11/13/2020	12/15/2020	12/26/2020	2/2/2021	2/22/2021	3/25/2021	4/8/2021	5/28/2021	6/7/2021	6/14/2021	9/30/2021
<b>Conventionals</b>											
Anionic Surfactants - MBAS (ug/L)	-	38.1	-	21.6 J	28.0	28.6	-	69.9	71.8	57.5	69.6
BOD (mg/L)	-	5.4	27.6	2.2	2.0 U	2.0 U	-	7.0	5.7	2.9	3.7
Chloride (mg/L)	-	10.5	36.9	12.8	22.1	18.1	-	19.2	8.23	8.08 UJ	3.56
Conductivity (uS/cm)	73.1	108	199	118	119	115	105	143	91.5	92	59.7
Hardness (mg CaCO3/L)	23.3	26.2	32.0	34.3	20.6	23	27	39.2	27.8	27.0	19.2
pH (pH Units)	7.3	8.2	8.1	7.7	6.8	7.4	7.2	6.8	6.3	6.1	6.9
Total Suspended Solids (mg/L)	31.4	121	11.0	22.7	37.5	12.6	165	129	59.4	29.8	27.1
Turbidity (NTU)	-	57.1	11.7	32.9	24.5	8.76	-	45.5	22.9	13.6	17.9
<b>Nutrients</b>											
Nitrate+Nitrite as N (mg/L)	0.272	0.221	0.471	0.479	0.161	0.294	0.273	0.535	0.364	0.345	0.216
Phosphate, Ortho (mg/L)	0.026	0.022	0.021	0.017	0.012	0.019 J	0.032 J	0.021	0.030 J	0.020	0.022
Phosphorus, Total (mg/L)	0.090	0.193	0.057	0.06	0.134	0.044	0.330	0.222	0.101	0.054	0.067
Total Nitrogen (mg/L)	0.58	0.84	0.88	0.63	0.45	0.44	0.74	0.89	0.63	0.45	0.57
<b>Metals</b>											
Cadmium (ug/L)	0.076 J	0.227 J	0.077 J	0.071 J	0.085 J	0.063 U	0.212 J	0.193 J	0.096 J	0.063 U	0.072 J
Cadmium, Dissolved (ug/L)	0.040 U	0.040 U	0.060 J	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U
Copper (ug/L)	8.25	31.4	4.78	7.15	9.72	5.56	31.7	22.4	11.4	7.41	6.70
Copper, Dissolved (ug/L)	2.48	2.55	2.48	2.28	2.39	3.12	4.24	4.16	3.83	3.12	3.10
Lead (ug/L)	5.91	24.5	2.77	5.15	7.91	2.87	25.8	19.6	8.01	4.53	3.28
Lead, Dissolved (ug/L)	0.307	0.303	0.206	0.189	0.172	0.172	0.228	0.358	0.264	0.181	0.234
Mercury (ug/L)	0.0080 U	0.0016 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0145 J	0.0080 U	0.0080 U	0.0080 U	0.0080 U
Mercury, Dissolved (ug/L)	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.009 U	-	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	51.6	150	54.2	48.2	58.9	42.4	190	123	70.1	47.8	43.2
Zinc, Dissolved (ug/L)	23.8	26.2	43.3	23	19.4	28.3	30.1	25.8	28.6	23.0	21.6
<b>Insecticides</b>											
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020	0.011 J	0.010 U	0.010 U	0.013 J
<b>LPAHs</b>											
2-Methylnaphthalene (ug/L)	0.009 U	0.028	0.054	0.013	0.011	0.012	0.015	0.011	0.012	0.017	0.010 U
Acenaphthene (ug/L)	0.010 U	0.018	0.018	0.038	0.010 U	0.010 U	0.009 U	0.010 U	0.010 U	0.009 U	0.010 U
Acenaphthylene (ug/L)	0.009 U	0.012	0.009 U	0.024	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.033	0.012 U	0.012 U	0.012 U	0.012 U	0.020	0.012 U	0.012 U	0.012 U	0.008 J
Fluorene (ug/L)	0.009 U	0.010 U	0.015	0.016	0.009 U	0.010 U	0.009 U	0.009 U	0.009 U	0.009 U	0.010 U
Naphthalene (ug/L)	0.026 U	0.058	0.044	0.037	0.026 U	0.026 U	0.035 J	0.026 U	0.026 U	0.027	0.020 J
Phenanthrene (ug/L)	0.037	0.274	0.031	0.067	0.052	0.022	0.223	0.127	0.079	0.032	0.038
Total LPAHs	0.070	0.400	0.1185	0.188	0.085	0.0555	0.292	0.160	0.112	0.079	0.081
<b>HPAHs</b>											
Benzo(a)anthracene (ug/L)	0.020	0.205	0.009 J	0.019	0.034	0.009 J	0.156	0.110	0.059	0.006 U	0.038
Benzo(a)pyrene (ug/L)	0.028	0.282	0.011	0.024	0.051	0.015	0.227	0.170	0.094	0.035	0.061
Benzo(b,k)fluoranthene (ug/L)	0.084	0.732	0.035	0.071	0.122	0.043	0.707	0.470	0.270	0.099	0.214
Benzo(g,h,i)perylene (ug/L)	0.044	0.232	0.019	0.036	0.065	0.025	0.196	0.173	0.117	0.045	0.091
Chrysene (ug/L)	0.052	0.404	0.02	0.045	0.084	0.025	0.340	0.163	0.147	0.056	0.097
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.050	0.006 U	0.006 U	0.006 U	0.006 U	0.040	0.036	0.020	0.006 U	0.030
Fluoranthene (ug/L)	0.074	0.700	0.034	0.076	0.126	0.037	0.563	0.368	0.210	0.081	0.119
Indeno(1,2,3-c,d)pyrene (ug/L)	0.039	0.242	0.014	0.028	0.057	0.019	0.197	0.182	0.101	0.038	0.078
Pyrene (ug/L)	0.056	0.500	0.046	0.068	0.100	0.036	0.486	0.321	0.177	0.070	0.107
Retene	0.008 J	0.027	0.008 J	0.019	0.009 J	0.006 J	0.042	0.034	0.017	0.005 U	0.018
Total HPAHs	0.400	3.347	0.191	0.370	0.642	0.212	2.912	1.993	1.195	0.430	0.835
TOTAL PAHs	0.470	3.75	0.310	0.558	0.727	0.268	3.20	2.15	1.31	0.509	0.916
<b>Phthalates</b>											
Bis(2-ethylhexyl) phthalate (ug/L)	1.02	2.69	0.683 J	1.10	1.10	0.831 J	3.42	2.30	1.59	1.19	1.17
Butyl benzyl phthalate (ug/L)	0.505 J	0.416 U	0.407 U	0.411 U	0.405 U	0.409 U	0.403 U	0.405 U	0.406 U	0.399 U	0.420 U
Diethyl phthalate (ug/L)	0.315 U	0.322 U	0.315 U	0.318 U	0.314 U	0.317 U	0.312 U	0.314 U	0.314 U	0.309 U	0.325 U
Dimethyl phthalate (ug/L)	0.342 U	0.350 U	0.342 U	0.346 U	0.341 U	0.344 U	0.339 U	0.341 U	0.342 U	0.336 U	0.354 U
Di-n-butyl phthalate (ug/L)	0.356 J	0.347 J	0.297 U	0.3	0.296 U	0.454 J	0.294 U	0.298 J	0.296 U	0.291 U	0.358 J
Di-n-octyl phthalate (ug/L)	0.363 U	0.371 UJ	0.363 U	0.367 U	0.362 U	0.365 U	0.36 U	0.362 U	0.362 U	0.356 U	0.375 U
Total Phthalates	1.88	3.04	0.683	1.10	1.10	1.29	3.42	2.60	1.59	1.19	1.53
<b>Herbicides</b>											
Dichlobenil (ug/L)	0.116	0.021 U	0.020 U	0.075	0.090	0.168	0.099	0.081	0.045 J	0.054	0.026 J

**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.  
**R** – The value is considered unusable.  
**E** – Exceeds value.

**Table D-3.2**  
**Stormwater Analytical Data for Outfall 237A WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	<b>0.28</b>	<b>0.50</b>	<b>0.83</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>1400</b>	<b>3000</b>	<b>80000</b>
E. Coli (CFU/100mL)	<b>1400</b>	<b>3000</b>	<b>2800</b>
Enterococci (CFU/100mL)	<b>9200</b>	<b>4000</b>	<b>110000</b>

**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.  
 R – The value is considered unusable.  
 E - Exceeds value.

**Table D-4.1  
Stormwater Analytical Data for Outfall 237B WY2021 - Composite Samples**

	Storm 1 10/10/2020	Storm 2 11/13/2020	Storm 3 12/8/2020	Storm 4 12/31/2020	Storm 5 2/1/2021	Storm 6 2/22/2021	Storm 7 3/4/2021	Storm 8 3/25/2021	Storm 9 4/8/2021	Storm 10 5/27/2021	Storm 11 6/13/2021	Rejected Storm 12 9/19/2021	Storm 13 9/27/2021
<b>Conventionals</b>													
Anionic Surfactants - MBAS (ug/L)	54.2	-	27.3	20.7 J	17.8 J	21.7 J	63.9	27.1	42.5	-	59.2	-	-
BOD (mg/L)	-	-	3.7	2.2	2.0 U	2.0 U	-	2.0	5.4	8.5	3.5	-	-
Chloride (mg/L)	3.09	-	7.62	11.0	7.7	8.16	16	3.52	9.4	-	3.93 UJ	-	-
Conductivity (uS/cm)	91.3	121	143	166	178	118	221	124	179	133	109	146	138
Hardness (mg CaCO3/L)	32.7	50.0	54.7	53.1	71.7	42.9	78.8	45.2	79.3	55.9	40.4	60.6	59.0
pH (pH Units)	7.1	7.0	7.8	8.2	6.9	6.9	7.5	7.1	6.8	6.8	6.8	6.5	6.4
Total Suspended Solids (mg/L)	34.3	27.5	21.6	11.5	10	35.9	11.6	17.1	32.8	-	37.3	-	-
Turbidity (NTU)	34.5	-	19.9	12.4	9.11	26.5	14.5	12.2	18.5	-	19.5	-	-
<b>Nutrients</b>													
Nitrate+Nitrite as N (mg/L)	0.725	1.11	1.25	1.48	1.6	0.711	0.399	0.98	1.89	1.17	0.92	1.36	-
Phosphate, Ortho (mg/L)	0.022	0.027	0.025	0.024	0.021	0.017	0.024	0.021 J	0.032 J	0.018	0.021	-	-
Phosphorus, Total (mg/L)	0.112	0.080	0.071	0.058	0.046	0.111	0.087	0.077	0.125	0.0564	0.066	0.255	-
Total Nitrogen (mg/L)	1.18	1.33	1.55	1.49	1.64	1.02	1.99	1.02	1.92	1.57	1.25	2.14	-
<b>Metals</b>													
Cadmium (ug/L)	0.063 U	0.071 J	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.074 J	0.199 J	0.063 U	0.153 J	0.063 U
Cadmium, Dissolved (ug/L)	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.04 U	0.040 U	0.040 U
Copper (ug/L)	5.81	4.24	6.07	3.64	2.93	6.7	5.43	4.96	7.53	22.2	7.98	19.8	8.39
Copper, Dissolved (ug/L)	2.24	1.53	2.06	1.88	1.49	2.18	2.97	2.14	2.79	3.73	2.62	3.98	2.76
Lead (ug/L)	3.61	3.42	3.30	1.92	1.57	5.22	2.02	3.26	5.00	22.1	5.06	15.8	7.36
Lead, Dissolved (ug/L)	0.125	0.214	0.221	0.158	0.168	0.200	0.297	0.185	0.182	0.259	0.164	0.288	0.299
Mercury (ug/L)	0.0080 U	0.0080 U	0.0016 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0090 J	0.0080 U	0.011 J	0.0080 U
Mercury, Dissolved (ug/L)	0.0090 U	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	37.4	24.1	32.7	19.3	20.9	48.8	80.3	29.6	45.1	116	40.7	116	44.6
Zinc, Dissolved (ug/L)	15.2	10.6	12.7	11.9	11.6	20.5	61.8	14.6	13.2	16.2	11.7	22.2	14.8
<b>Insecticides</b>													
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.019 J	0.010 U
<b>LPAHs</b>													
2-Methylnaphthalene (ug/L)	0.009 U	0.010 U	0.010 U	0.013 U	0.010 U	0.010 U	0.010 U	0.013 U	0.009 U	0.010 U	0.009 U	0.010 U	0.010 U
Acenaphthene (ug/L)	0.010 U	0.023 U	0.010 U	0.010 U	0.018 U	0.010 U	0.010 U	0.010 U	0.009 U	0.010 U	0.010 U	0.010 U	0.010 U
Acenaphthylene (ug/L)	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Fluorene (ug/L)	0.009 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.010 U	0.009 U	0.010 U	0.010 U
Naphthalene (ug/L)	0.026 U	0.027 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.016 U	0.016 U
Phenanthrene (ug/L)	0.019 U	0.017 U	0.022 U	0.018 U	0.017 U	0.021 U	0.023 U	0.018 U	0.032 U	0.027 U	0.022 U	0.053 U	0.021 U
Total LPAHs	0.052	0.074	0.056	0.052	0.055	0.055	0.057	0.052	0.065	0.061	0.055		0.046
<b>HPAHs</b>													
Benzo(a)anthracene (ug/L)	0.007 J	0.006 U	0.006 U	0.006 U	0.006 U	0.010 U	0.006 U	0.006 U	0.012 U	0.016 U	0.006 U	0.030 U	0.009 J
Benzo(a)pyrene (ug/L)	0.011	0.008 J	0.003 U	0.006 J	0.005 J	0.015	0.008 J	0.006 J	0.016	0.020	0.018	0.050	0.013
Benzo(b,k)fluoranthene (ug/L)	0.033	0.026 J	0.028 J	0.018 J	0.017 J	0.040	0.026 J	0.022 J	0.056	0.068	0.055	0.144	0.043
Benzo(g,h,i)perylene (ug/L)	0.018	0.016	0.019	0.010	0.010	0.022	0.016	0.015	0.023	0.033	0.029	0.067	0.017
Chrysene (ug/L)	0.018	0.008 U	0.008 U	0.011	0.011	0.027	0.021	0.016	0.037	0.043	0.035	0.080	0.025
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.007 J	0.006 U	0.006 U	0.006 U
Fluoranthene (ug/L)	0.027	0.021	0.027	0.018	0.016	0.037	0.027	0.022	0.050	0.052	0.044	0.125	0.035
Indeno(1,2,3-c,d)pyrene (ug/L)	0.014	0.005 U	0.005 U	0.005 U	0.006 J	0.017	0.005 U	0.009 J	0.016	0.028	0.021	0.053	0.013
Pyrene (ug/L)	0.026	0.021	0.031	0.023	0.021	0.035	0.040	0.026	0.052	0.057	0.045	0.112	0.035
Retene (ug/L)	0.005 U	0.007 J	0.013	0.005 U	0.005 U	0.005 U	0.022	0.007 J	0.011	0.012	0.008 J	0.023	0.008 J
Total HPAHs	0.157	0.105	0.119	0.095	0.092	0.206	0.147	0.122	0.265	0.324	0.253		0.193
TOTAL PAHs	0.209	0.179	0.175	0.146	0.147	0.261	0.203	0.174	0.330	0.385	0.308		0.239
<b>Phthalates</b>													
Bis(2-ethylhexyl) phthalate (ug/L)	0.600 J	0.556 J	0.947 J	0.529 J	0.689 J	0.700 J	1.31	0.789 J	1.09	1.50	1.14	2.70 UJ	0.876 J
Butyl benzyl phthalate (ug/L)	0.403 U	0.413 U	0.418 U	0.413 U	0.409 U	0.413 U	0.413 U	0.415 U	0.399 U	0.409 U	0.403 U	0.408 U	0.411 U
Diethyl phthalate (ug/L)	0.313 U	0.320 U	0.324 U	0.32 U	0.317 U	0.320 U	0.320 U	0.321 U	0.309 U	0.317 U	0.313 U	0.316 U	0.318 U
Dimethyl phthalate (ug/L)	0.340 U	0.348 U	0.352 U	0.348 U	0.344 U	0.348 U	0.348 U	0.349 U	0.336 U	0.344 U	0.34 U	0.344 U	0.346 U
Di-n-butyl phthalate (ug/L)	0.318 J	0.334 J	0.305 U	0.386 J	0.298 U	0.302 U	0.411 J	0.303 U	0.291 U	0.298 U	0.294 U	0.298 U	0.345 J
Di-n-octyl phthalate (ug/L)	0.360 U	0.369 U	0.373 U	0.369 U	0.365 U	0.369 U	0.369 U	0.370 U	0.356 U	0.365 U	0.360 U	0.365 U	0.367 U
Total Phthalates	0.918	0.890	0.947	0.915	0.689	0.700	1.72	0.789	1.09	1.50	1.14		1.22
<b>Herbicides</b>													
Dichlobenil (ug/L)	0.114	0.033 J	0.021 U	0.021 U	0.020 U	0.040 J	0.075	0.122	0.095	0.031 J	0.044 J	0.020 J	0.026 J

**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.  
**R** – The value is considered unusable.  
**E** - Exceeds value.

**Table D-4.2**  
**Stormwater Analytical Data for Outfall 237B WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	<b>0.36</b>	<b>0.76</b>	<b>0.52</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>8000</b>	<b>8000</b>	<b>280000</b>
E. Coli (CFU/100mL)	<b>5000</b>	<b>5000</b>	<b>140000</b>
Enterococci (CFU/100mL)	<b>6700</b>	<b>3500</b>	<b>220000</b>

**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.



**Table D-5.1  
Stormwater Analytical Data for Outfall 243 WY2021 - Composite Samples**

	Storm 1 10/10/2020	Storm 2 11/3/2020	Storm 3 11/13/2020	Storm 4 12/9/2020	Storm 5 1/11/2021	Storm 6 2/3/2021	Storm 7 3/25/2021	Storm 8 6/7/2021	Storm 9 9/18/2021
<b>Conventionals</b>									
Anionic Surfactants - MBAS (ug/L)	54.1	–	23.2 J	53.4	20.4 J	23.0 J	28.9	73.2	92.4 J
BOD (mg/L)	8.4	–	2.7	2.4	2.0 U	4.2	2.1	2.9	4.8
Chloride (mg/L)	916	–	917	2580	930	1710	1640	1750	945
Conductivity (uS/cm)	3290	6820	3170	8340	3230	5080	5540	6920	3490
Hardness (mg CaCO3/L)	319	695	335	809	310	527	548	712	343
pH (pH Units)	6.6	7.0	6.7	7.6	7.1	7.4	7.1	7.1	7.2
Total Suspended Solids (mg/L)	47.8	9.84	33.1	19.3	32.2	39	38.7	43.2	47.2
Turbidity (NTU)	98.1	–	30.9	27.3	30.7 J	34.7	38.3	29.7	41.7
<b>Nutrients</b>									
Nitrate+Nitrite as N (mg/L)	0.454	0.165	0.241	0.244	0.093	0.089	0.192	0.223	0.413
Phosphate, Ortho (mg/L)	0.037	0.034 J	0.047	0.034	0.020 J	0.012	0.046 J	0.015	0.107 J
Phosphorus, Total (mg/L)	0.212	0.139	0.291	0.188	0.199 J	0.213	0.29	0.162	0.518
Total Nitrogen (mg/L)	1.08	0.69	0.81	0.80	0.29	0.42	0.54	0.61	1.29
<b>Metals</b>									
Cadmium (ug/L)	0.263 J	0.101 J	0.321 J	0.146 J	0.295 J	0.257 J	0.135 J	0.137 J	0.175 J
Cadmium, Dissolved (ug/L)	0.093 J	0.081 J	0.092 J	0.072 J	0.093 J	0.083 J	0.072 J	0.056 J	0.076 J
Copper (ug/L)	15.6	12.0	14.5	15.1	18.4	14.2	15.4	20.8	22.9
Copper, Dissolved (ug/L)	4.50	5.68	3.16	3.65	3.41	2.28	3.93	4.35	8.58
Lead (ug/L)	12.5	3.24	11.6	6.29	13.4	10.9	10.8	16.4	21.3
Lead, Dissolved (ug/L)	0.277	0.302	0.405	0.162	0.225	0.144	0.198	0.249	0.48
Mercury (ug/L)	0.0080 U	0.0080 U	0.0110 J	0.0016 U	0.0080 U	0.0080 U	0.0080 U	0.0105 J	0.0080 U
Mercury, Dissolved (ug/L)	0.0090 U	0.0090 U	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	49.4	40.3	53.6	46.3	58.6	51.9	39.5	63.0	88.5
Zinc, Dissolved (ug/L)	15.6	23.7	21.8	21.5	20.9	21.8	11.4	21.5	38.7
<b>Insecticides</b>									
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 UJ	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
<b>LPAHs</b>									
2-Methylnaphthalene (ug/L)	0.010 U	0.016	0.015	0.010 U	0.017	0.010	0.010 U	0.009 U	0.017
Acenaphthene (ug/L)	0.012	0.016	0.034	0.040	0.022	0.026	0.037	0.010 U	0.018
Acenaphthylene (ug/L)	0.009 U	0.009 U	0.011	0.009 U	0.010	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.060	0.012 U	0.037	0.012 U	0.037	0.041	0.029	0.031	0.052
Fluorene (ug/L)	0.010 U	0.028	0.009 U	0.010 U	0.010 U	0.009 U	0.010 U	0.009 U	0.010 U
Naphthalene (ug/L)	0.026 U	0.042	0.028	0.032	0.028	0.026 U	0.026 U	0.026 U	0.026
Phenanthrene (ug/L)	0.027	0.040	0.020	0.026	0.029	0.031	0.025	0.040	0.040
Total LPAHs	0.122	0.137	0.135	0.114	0.131	0.120	0.114	0.098	0.146
<b>HPAHs</b>									
Benzo(a)anthracene (ug/L)	0.015	0.006 U	0.013	0.006 U	0.013	0.018	0.010	0.018	0.011
Benzo(a)pyrene (ug/L)	0.017	0.006 J	0.017 J	0.008 J	0.015	0.023	0.013	0.018	0.013
Benzo(b,k)fluoranthene (ug/L)	0.038	0.020 J	0.034 J	0.020 J	0.040	0.056	0.032	0.051	0.041
Benzo(g,h,i)perylene (ug/L)	0.018	0.009 J	0.017 J	0.011	0.015	0.024	0.014	0.024	0.019
Chrysene (ug/L)	0.021	0.014	0.021 J	0.014	0.025	0.032	0.018	0.034	0.025
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 UJ	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Fluoranthene (ug/L)	0.039	0.030	0.033	0.030	0.041	0.052	0.031	0.054	0.052
Indeno(1,2,3-c,d)pyrene (ug/L)	0.016	0.005 U	0.016 J	0.009 J	0.014	0.022	0.013	0.017	0.013
Pyrene (ug/L)	0.034	0.030	0.032	0.031	0.042	0.048	0.033	0.055	0.048
Retene (ug/L)	0.005 U	0.009 J	0.006 J	0.008 J	0.006 J	0.009 J	0.009 J	0.016	0.016
Total HPAHs	0.201	0.118	0.186	0.129	0.208	0.278	0.167	0.274	0.225
TOTAL PAHs	0.3225	0.254	0.321	0.243	0.339	0.398	0.281	0.372	0.371
<b>Phthalates</b>									
Bis(2-ethylhexyl) phthalate (ug/L)	0.361 U	1.14	0.371 J	0.736 J	0.466 J	0.528 J	0.363 U	1.08	0.765 U
Butyl benzyl phthalate (ug/L)	0.409 U	0.411 U	0.406 U	0.413 U	0.407 U	0.404 U	0.411 U	0.404 U	0.407 U
Diethyl phthalate (ug/L)	0.346 J	0.318 U	0.314 U	0.320 U	0.316 U	0.313 U	0.319 U	0.313 U	1.36
Dimethyl phthalate (ug/L)	0.344 U	0.346 U	0.342 U	0.348 U	0.343 U	0.340 U	0.347 U	0.34 U	0.343 U
Di-n-butyl phthalate (ug/L)	0.298 U	0.300 U	0.296 U	0.386 J	0.339 J	0.295 U	0.300 U	0.295 U	0.297 U
Di-n-octyl phthalate (ug/L)	0.365 U	0.367 U	0.362 UJ	0.369 U	0.364 U	0.361 U	0.367 U	0.361 U	0.364 U
Total Phthalates	0.346	1.14	0.371	1.12	0.805	0.528		1.08	1.36
<b>Herbicides</b>									
Dichlobenil (ug/L)	0.020 U	0.021 U	0.020 U	0.021 U	0.020 U	0.020 U	0.021 U	0.020 U	0.008 U

**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.  
**R** – The value is considered unusable.  
**E** - Exceeds value.

**Table D-5.2  
Stormwater Analytical Data for Outfall 243 WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	0.19 U	<b>0.42</b>	<b>0.74</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>13000</b>	<b>1100</b>	<b>17000</b>
E. Coli (CFU/100mL)	<b>8000</b>	<b>800</b>	<b>2800</b>
Enterococci (CFU/100mL)	<b>20000</b>	<b>10000</b>	<b>110000</b>

**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.

R – The value is considered unusable.

E - Exceeds value.

Table D-6.1  
Stormwater Analytical Data for Outfall 245 WY2021 - Composite Samples

	Storm 1 10/10/2020	Storm 2 11/3/2020	Storm 3 11/13/2020	Storm 4 12/9/2020	Storm 5 12/25/2020	Storm 6 1/11/2021	Storm 7 2/2/2021	Storm 8 2/22/2021	Storm 9 3/25/2021	Storm 10 5/28/2021	Storm 11 6/14/2021	Storm 12 9/18/2021
<b>Conventionals</b>												
Anionic Surfactants - MBAS (ug/L)	58.5	58.0	19.3 J	0.0107 R	-	11.9 J	22.6 J	21.8 J	40.5	80.4	56.6	102
BOD (mg/L)	3.0	3.9	5.8	3.4	2.3	2.0 U	3.8	2.0 U	2.3	5.8	2.3	4.7
Chloride (mg/L)	12.7 J	1160	92.3	99.0	-	21.1	198	4.96	219	302	42.1	615
Conductivity (uS/cm)	86.3	420	402	350	382	97.4	636	46.8	122	1220	238	2130
Hardness (mg CaCO3/L)	16.2	418	56.5	50.7	57.2	18.6	82.3	18.3	27.2	127	32.9	206
pH (pH Units)	6.9	7.3	7.3	7.8	8.4	7.2	7.4	8.4	7.6	7.3	6.4	6.8
Total Suspended Solids (mg/L)	29.5	61.2	82.7	85.4	22.4	35.9	63.9	75.8	42.2	154	41.5	75.8
Turbidity (NTU)	51.4	71.9	104	139	-	44.7 J	64.3	77.7	38.0	124	47.2	81.0
<b>Nutrients</b>												
Nitrate+Nitrite as N (mg/L)	0.128	0.194	0.130	0.152	0.121	0.034 J	0.091	0.043	0.152	0.241	0.125	0.361
Phosphate, Ortho (mg/L)	0.025	0.044	0.030	0.022	0.020	0.011 J	0.018	0.013	0.019 J	0.049	0.021	0.094 J
Phosphorus, Total (mg/L)	0.130	0.178	0.212	0.200	0.096	0.079 J	0.149	0.137	0.103	0.363	0.087	0.358
Total Nitrogen (mg/L)	0.82	0.92	0.80	0.57	0.76	0.18	0.44	0.24	0.41	0.6	0.21	1.29
<b>Metals</b>												
Cadmium (ug/L)	0.131 J	0.192 J	0.395 J	0.192 J	0.174 J	0.113 J	0.18 J	0.193 J	0.143 J	0.404 J	0.124 J	0.303 J
Cadmium, Dissolved (ug/L)	0.041 J	0.086 J	0.226 J	0.059 J	0.104 J	0.04 U	0.066 J	0.044 J	0.064 J	0.145 J	0.046 J	0.070 J
Copper (ug/L)	7.55	10.8	16.9	15.6	6.26	8.07	11.6	13.5	11.0	25.9	9.8	22.1
Copper, Dissolved (ug/L)	2.75	3.18	3.47	2.73	2.38	1.42	1.98	1.95	3.99	4.69	3.29	5.64
Lead (ug/L)	3.25	4.54	5.64	6.10	1.89	3.65	5.23	5.62	3.24	10.7	2.95	9.80
Lead, Dissolved (ug/L)	0.107 U	0.194	0.165	0.232	0.324	0.178	0.133	0.11	0.154	0.175	0.107 U	0.128
Mercury (ug/L)	0.0080 U	0.0080 U	0.0080 U	0.0016 U	0.0080 U	0.0080 U	0.0110 J	0.0080 U	0.0080 U	0.0080 J	0.0080 U	0.0080 U
Mercury, Dissolved (ug/L)	0.0090 U	0.0090 U	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	53.0	74.1	120	100	49.0	52.7	82.6	86.3	74.2	165	57.5	125
Zinc, Dissolved (ug/L)	20.7	29.5	44.6	25.9	29.7	18.6	25.4	18.2	28.3	40.7	18.1	27.1
<b>Insecticides</b>												
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
<b>LPAs</b>												
2-Methylnaphthalene (ug/L)	0.009 U	0.024	0.037	0.020	0.014	0.039	0.822	0.014	0.012	0.010 U	0.009 U	0.010 U
Acenaphthene (ug/L)	0.010 U	0.014	0.016	0.016	0.025	0.018	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Acenaphthylene (ug/L)	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
Fluorene (ug/L)	0.009 U	0.010 U	0.009 U	0.010 U	0.010 U	0.009 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.010 U
Naphthalene (ug/L)	0.026 U	0.057	0.042	0.040	0.031	0.070	0.577	0.028	0.027 U	0.026 U	0.026 U	0.016 U
Phenanthrene (ug/L)	0.029	0.046	0.052	0.046	0.032	0.025	0.017 U	0.036	0.026	0.034	0.018	0.017
Total LPAs	0.062	0.133	0.125	0.118	0.104	0.128	0.606	0.085	0.06	0.068	0.051	0.042
<b>HPAs</b>												
Benzo(a)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.011	0.008 J	0.006 U	0.008 J	0.006 U	0.006 U
Benzo(a)pyrene (ug/L)	0.008 J	0.010 J	0.016	0.019	0.007 J	0.011	0.013	0.013	0.008 J	0.011	0.003 U	0.005 J
Benzo(b,k)fluoranthene (ug/L)	0.019 J	0.027 J	0.044	0.042	0.011 U	0.022 J	0.037	0.011 U	0.020 J	0.039	0.011 U	0.016 J
Benzo(g,h,i)perylene (ug/L)	0.018	0.019	0.039	0.033	0.014	0.016	0.032	0.035	0.016	0.031	0.009 J	0.008 J
Chrysene (ug/L)	0.008 U	0.024	0.053	0.008 U	0.009 J	0.008 U	0.041	0.020	0.010	0.046	0.008 U	0.009 J
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Fluoranthene (ug/L)	0.023	0.038	0.059	0.049	0.024	0.027	0.050	0.048	0.029	0.049	0.015	0.017
Indeno(1,2,3-c,d)pyrene (ug/L)	0.005 U	0.005 U	0.017	0.016	0.005 U	0.005 U	0.014	0.015	0.008 J	0.014	0.005 U	0.005 U
Pyrene (ug/L)	0.034	0.055	0.090	0.084	0.037	0.045	0.173	0.073	0.045	0.072	0.020	0.021
Retene (ug/L)	0.007 J	0.011	0.021	0.021	0.012	0.008 J	0.020	0.012	0.011	0.019	0.006 J	0.009 J
Total HPAs	0.115	0.182	0.324	0.253	0.105	0.134	0.374	0.221	0.142	0.273	0.064	0.085
TOTAL PAHs	0.177	0.314	0.449	0.371	0.209	0.262	0.980	0.305	0.202	0.341	0.115	0.127
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate (ug/L)	0.909 J	0.865 J	1.27	2.04	0.792 J	0.803 J	1.26	1.34	1.04	1.83	0.867 J	0.626 U
Butyl benzyl phthalate (ug/L)	0.404 U	0.413 U	0.402 U	0.420 U	0.407 U	0.406 U	0.407 U	0.415 U	0.414 U	0.412 U	0.403 U	0.409 U
Diethyl phthalate (ug/L)	0.313 U	0.320 U	0.311 U	0.325 U	0.315 U	0.315 U	0.315 U	0.321 U	0.321 U	0.319 U	0.313 U	0.317 U
Dimethyl phthalate (ug/L)	0.340 U	0.348 U	0.338 U	0.354 U	0.343 U	0.342 U	0.343 U	0.349 U	0.349 U	0.347 U	0.340 U	0.344 U
Di-n-butyl phthalate (ug/L)	0.790 J	0.685 J	0.849 J	1.09	1.00	0.787 J	0.602 J	0.704 J	1.17	0.651 J	0.294 U	1.27
Di-n-octyl phthalate (ug/L)	0.361 U	0.369 U	0.359 U	0.375 U	0.363 U	0.363 U	0.363 U	0.370 U	0.370 U	0.368 U	0.360 U	0.365 U
Total Phthalates	1.70	1.55	2.12	3.13	1.79	1.59	1.86	2.04	2.21	2.48	0.867	1.27
<b>Herbicides</b>												
Dichlobenil (ug/L)	0.025 J	0.029 J	0.020 U	0.021 U	0.020 U	0.020 U	0.020 U	0.021 U	0.032 J	0.021 U	0.027 J	0.012 J

**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.  
 R - The value is considered unusable.  
 E - Exceeds value.

**Table D-6.2  
Stormwater Analytical Data for Outfall 245 WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	<b>0.20</b>	<b>0.40</b>	<b>0.78</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>22000</b>	<b>500</b>	<b>240000</b>
E. Coli (CFU/100mL)	<b>14000</b>	<b>39</b>	<b>240000</b>
Enterococci (CFU/100mL)	<b>250000</b>	<b>30000</b>	<b>820000</b>

**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.  
 R – The value is considered unusable.  
 E - Exceeds value.

**Table D-7.1**  
**Stormwater Analytical Data for Outfall 254 WY2021 - Composite Samples**

	Storm 1 11/3/2020	Storm 2 11/13/2020	Storm 3 12/9/2020	Storm 4 1/11/2021	Storm 5 3/5/2021	Storm 6 3/28/2021	Storm 7 4/7/2021	Storm 8 4/24/2021	Storm 9 5/27/2021	Storm 10 9/18/2021
<b>Conventionals</b>										
Anionic Surfactants - MBAS (ug/L)	-	49.0	18.9 J	32.4 J	82	73.6	144	175	75.6	124.0 J
BOD (mg/L)	-	2.9	2.4	2.0 U	3.4	4.0	-	5.2	-	4.8 J
Chloride (mg/L)	-	1850	2940	1370	4480	2130	2330	3180	3690	2220
Conductivity (uS/cm)	6460	5220	8980	4680	13800	6820	6420	9000	12500	6080
Hardness (mg CaCO3/L)	649	528	845	450	1460	638	736	883	1160	651
pH (pH Units)	7.2	6.7	7.6	7.5	6.7	6.7	6.7	6.6	6.8	7.0
Total Suspended Solids (mg/L)	61.6	53.5	42.3	57.6	20.9	57	116	39.2	128	67.7
Turbidity (NTU)	-	66.3	55.2	83.3 J	21.8	38.8	77	26.9	60.1	38.1
<b>Nutrients</b>										
Nitrate+Nitrite as N (mg/L)	0.189	0.132	0.114	0.036 J	0.165	0.095	0.232	0.276	0.166	0.287
Phosphate, Ortho (mg/L)	0.019 J	0.020	0.025	0.063 J	0.037	0.011 J	0.035 J	0.042	0.029	0.074 J
Phosphorus, Total (mg/L)	0.222	0.107	0.104	0.078 J	0.087	0.119	0.278	0.144	0.094	0.236
Total Nitrogen (mg/L)	0.46	0.44	0.43	0.23	0.68	0.35	0.88	1.48	0.45	1.11
<b>Metals</b>										
Cadmium (ug/L)	0.192 J	0.165 J	0.201 J	0.142 J	0.148 J	0.158 J	0.376 J	0.221 J	0.317 U	0.240 J
Cadmium, Dissolved (ug/L)	0.077 J	0.075 J	0.117 J	0.04 U	0.092 J	0.082 J	0.148 J	0.177 J	0.121 J	0.097 J
Copper (ug/L)	14.1	12.1	11.1	10.7	9.82	12.8	26.5	18.8	17.6	20.1
Copper, Dissolved (ug/L)	2.27	1.85	1.93	1.02	4.48	2.98	6.94	11.3	2.71	7.66
Lead (ug/L)	6.89	6.97	5.18	5.36	2.09 J	5.38	13	4.59	12.7	8.48
Lead, Dissolved (ug/L)	0.107 U	0.158	0.111	0.107 U	0.215 U	0.107 U	0.229	0.244	0.270	0.323
Mercury (ug/L)	0.0225 J	0.0080 J	0.0025 J	0.0080 U	0.0080 U	0.0080 U	0.0130 J	0.0080 U	0.0080 U	0.0095 J
Mercury, Dissolved (ug/L)	0.0090 U	0.0090 U	0.0018 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U	0.0090 U
Zinc (ug/L)	76.9	70.7	62.7	56.6	48.0	65.0	135	72.9	108	89.1
Zinc, Dissolved (ug/L)	35.6	30.5	31.9	22.0	32.4	28.2	47.9	48.3	31.4	39.2
<b>Insecticides</b>										
Bifenthrin (ug/L)	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U
<b>LPAHs</b>										
2-Methylnaphthalene (ug/L)	0.022	0.010	0.010 U	0.010 U	0.010 U	0.013	0.017	0.017	0.010 U	0.016
Acenaphthene (ug/L)	0.014	0.014	0.026	0.010 U	0.010 U	0.010 U	0.011	0.010 U	0.010 U	0.010 U
Acenaphthylene (ug/L)	0.035	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.009 U	0.056	0.009 U	0.009 U
Anthracene (ug/L)	0.012 U	0.012 U	0.012 U	0.012 U	0.016	0.012 U	0.032	0.012 U	0.012 U	0.005 U
Fluorene (ug/L)	0.015	0.009 U	0.010 U	0.010 U	0.010 U	0.010 U	0.009 U	0.010 U	0.010 U	0.009 U
Naphthalene (ug/L)	0.049	0.026 U	0.037	0.026 U	0.026 U	0.027 U	0.061 J	0.026 U	0.026 U	0.023 J
Phenanthrene (ug/L)	0.069	0.044	0.044	0.022	0.027	0.049	0.106	0.029	0.041	0.037
Total LPAHs	0.188	0.086	0.123	0.056	0.071	0.083	0.219	0.114	0.075	0.077
<b>HPAHs</b>										
Benzo(a)anthracene (ug/L)	0.019	0.006 U	0.020	0.019	0.007 J	0.012	0.034	0.006 U	0.012	0.010
Benzo(a)pyrene (ug/L)	0.025	0.022	0.025	0.048	0.011	0.018	0.046	0.003 U	0.014	0.016
Benzo(b,k)fluoranthene (ug/L)	0.070	0.068	0.074	0.116	0.033	0.054	0.132	0.028 J	0.055	0.048
Benzo(g,h,i)perylene (ug/L)	0.029	0.031	0.031	0.040	0.015	0.022	0.044	0.012	0.023	0.022
Chrysene (ug/L)	0.073	0.086	0.085	0.140	0.019	0.038	0.117	0.022	0.061	0.024
Dibenz(a,h)anthracene (ug/L)	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U	0.006 U
Fluoranthene (ug/L)	0.088	0.089	0.104	0.103	0.036	0.064	0.130	0.023	0.074	0.048
Indeno(1,2,3-c,d)pyrene (ug/L)	0.005 U	0.019	0.020	0.005 U	0.009 J	0.015	0.029	0.005 U	0.016	0.014
Pyrene (ug/L)	0.084	0.077	0.095	0.120	0.047	0.063	0.143	0.032	0.066	0.051
Retene (ug/L)	0.017	0.019	0.013	0.027	0.011	0.010	0.027	0.012	0.009 J	0.017
Total HPAHs	0.394	0.398	0.457	0.592	0.180	0.289	0.678	0.127	0.324	0.236
TOTAL PAHs	0.582	0.484	0.580	0.647	0.251	0.372	0.897	0.241	0.399	0.313
<b>Phthalates</b>										
Bis(2-ethylhexyl) phthalate (ug/L)	1.29	0.996	1.11	1.00	3.18	1.48	3.04	1.58	1.89	1.40 UJ
Butyl benzyl phthalate (ug/L)	0.412 U	0.405 U	0.413 U	0.411 U	0.411 U	0.418 U	0.401 U	0.408 U	0.407 U	0.406 U
Diethyl phthalate (ug/L)	0.319 U	0.314 U	0.320 U	0.319 U	0.635 J	0.562 J	0.587 J	0.63 J	0.496 J	0.369 J
Dimethyl phthalate (ug/L)	0.347 U	0.341 U	0.348 U	0.347 U	0.346 U	0.352 U	0.338 U	0.344 U	0.343 U	0.342 U
Di-n-butyl phthalate (ug/L)	0.389 J	0.393 J	0.691 J	0.458 J	0.300 U	0.354 J	0.293 U	0.327 J	0.363 J	0.425 J
Di-n-octyl phthalate (ug/L)	0.368 U	0.362 U	0.369 U	0.367 U	0.367 U	0.373 U	0.359 U	0.365 U	0.364 U	0.362 U
Total Phthalates	1.68	1.39	1.80	1.46	3.82	2.40	3.63	2.54	2.75	0.794
<b>Herbicides</b>										
Dichlobenil (ug/L)	0.027 J	0.020 U	0.021 U	0.022 J	0.036 J	0.021 U	0.020 U	0.028 J	0.020 U	0.008 U

**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.  
 R – The value is considered unusable.  
 E - Exceeds value.

**Table D-7.2  
Stormwater and Baseflow Analytical Data for Outfall 254 WY2021 - Grab Samples**

	11/3/2020	12/15/2020	9/17/2021
<b>TPH</b>			
NWTPH-Diesel (mg/L)	0.10 U	0.10 U	0.10 U
NWTPH-Heavy Oil (mg/L)	<b>0.32</b>	<b>4.2</b>	<b>0.56</b>
<b>Bacteria</b>			
Coliform, Fecal (CFU/100mL)	<b>1100</b>	<b>3000</b>	<b>170000</b>
E. Coli (CFU/100mL)	<b>800 R</b>	<b>1700</b>	<b>110000</b>
Enterococci (CFU/100mL)	<b>4000</b>	<b>7300</b>	<b>410000</b>

**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.

R – The value is considered unusable.

E - Exceeds value.

Table D-8  
Sediment Trap Analytical Data WY2021

Outfall ID#	OF230				OF235	OF237A				OF237B		OF243	OF245		OF248
	FD16	FD18	FD3-A	FD3-New	FD6	FD10-C	FD13-B New	FD2	FD2-A	FD1	FD35	FD23	FD21	MH-390	FD22
Date Collected	2108056-04	2108056-05	2108056-02	2108056-01	108056-07	2108056-14	2108056-12	2108056-08	2108056-09	2108056-16	2108056-19	2108056-20	2108056-21	2108056-23	2108056-22
<b>Conventionals</b>															
Particle/Grain Size, Clay (%)	--	5.9	--	--	9.9	--	--	4.5	--	--	--	--	--	10.4	--
Particle/Grain Size, Gravel (%)	--	0.9	--	--	0.1	--	--	2.0	0.1	--	--	--	--	5.0	--
Particle/Grain Size, Sand (%)	--	57.8	--	--	51.7	--	--	73.2	64.9	--	--	--	--	58.4	--
Particle/Grain Size, Silt (%)	--	35.3	--	--	38.2	--	--	20.3	29.5	--	--	--	--	26.2	--
Total Organic Carbon (mg/Kg)	197000	201000	87400	31600	63400	160000	247000	75000	5.5	19700	63600	99600	94200	129000	191000
Total Solids (%)	29.0	33.1	39.8	61.4	62.1	38.9	26.5	62.6	46.4	68.2	48.5	29.8	46.0	45.1	33.3
Total Volatile Solids (%)	--	--	--	6.1	12.5	--	--	11.0	--	3.9	--	21.0	--	30.9	--
<b>Nutrients</b>															
Phosphorus, Total (mg/Kg)	--	--	--	711	913	--	--	808	--	471	--	13700	--	1810	--
<b>Metals</b>															
Cadmium (mg/Kg dry)	--	--	--	4.86	0.13	--	--	0.407	--	0.230	--	2.66	--	0.791	--
Copper (mg/Kg dry)	--	--	--	50.2	148	--	--	68.5	--	43.3	--	236	--	143	--
Lead (mg/Kg dry)	--	--	--	103	286	--	--	67.4	--	20.6	--	384	80.4	80.6	204
Mercury (mg/Kg dry)	--	0.126	0.232	0.0377	0.0931	--	--	0.0557	--	0.0257	--	0.206	--	0.0948	0.171
Zinc (mg/Kg dry)	--	--	--	870	789	--	--	388	--	187	--	813	1000	586	2700
<b>LPAHs</b>															
2-Methylnaphthalene (ug/Kg)	--	12	26	22	103	22	85	34	--	14	--	29	--	39	--
Acenaphthene (ug/Kg)	--	13	47	13	19	38	374	23	--	13	U	13	U	13	U
Acenaphthylene (ug/Kg)	--	6	22	32	16	31	162	15	--	8	J	17	--	17	--
Anthracene (ug/Kg)	--	10	124	38	35	119	2090	115	--	18	--	40	--	26	--
Fluorene (ug/Kg)	--	7	69	26	23	77	669	45	--	23	--	15	--	15	--
Naphthalene (ug/Kg)	--	14	61	65	61	40	119	68	U	30	--	52	--	61	--
Phenanthrene (ug/Kg)	--	86	829	238	263	985	13800	852	--	308	--	134	--	108	--
Total LPAHs	--	119.5	1152	405.5	417	1290	17214	1084	--	393.5	--	265	--	233.5	--
<b>HPAHs</b>															
Benzo(a)anthracene (ug/Kg)	--	68	557	128	152	556	11500	750	--	95	--	91	--	44	--
Benzo(a)pyrene (ug/Kg)	--	75	597	260	184	690	9960	902	--	132	--	112	--	55	--
Benzo(b,k)fluoranthenes (ug/Kg)	--	236	1510	641	439	2050	30900	2320	--	355	--	287	--	130	J
Benzo(g,h,i)perylene (ug/Kg)	--	84	439	227	205	538	4110	689	J	252	--	157	J	142	J
Chrysene (ug/Kg)	--	123	886	283	297	1120	16400	1250	--	207	--	184	--	60	--
Dibenz(a,h)anthracene (ug/Kg)	--	19	116	45	65	146	1620	185	--	25	--	23	--	66	U
Fluoranthene (ug/Kg)	--	182	1460	368	432	1810	34200	2020	--	358	--	247	--	115	--
Indeno(1,2,3-c,d)pyrene (ug/Kg)	--	95	549	285	175	733	6840	902	--	144	--	120	--	71	--
Pyrene (ug/Kg)	--	171	1400	388	583	1520	27200	1800	--	212	--	316	--	185	--
Retene (ug/Kg)	--	--	--	31	73	--	--	138	--	22	--	70	--	22	J
Total HPAHs	--	1053	7514	2625	2500	9163	142730	10818	--	1780	--	1537	--	835	--
Total PAHs	--	1173	8666	3031	2917	10453	159944	11902	--	2174	--	1802	--	1069	--
<b>Phthalates</b>															
bis(2-Ethylhexyl)phthalate (ug/Kg)	5560	--	--	3530	6550	--	--	6610	--	1740	--	1830	--	1220	8150
Butyl benzyl phthalate (ug/Kg)	230	--	--	73	584	--	--	261	--	51	--	150	--	13900	865
Diethylphthalate (ug/Kg)	35	U	--	46	35	U	--	35	U	35	U	35	U	35	U
Dimethyl phthalate (ug/Kg)	138	--	--	6	62	--	--	240	--	6	U	13	J	20	20
Di-n-butylphthalate (ug/Kg)	45	--	--	31	41	--	--	88	--	31	U	31	U	48	69
Di-n-Octyl phthalate (ug/Kg)	71	U	--	14	70	U	--	70	U	1791	U	14	U	71	U
Total Phthalates	5973	--	--	3603	7237	--	--	7199	--	1791	--	1993	--	15188	9104
<b>PCBs</b>															
Aroclor-1016 (ug/Kg)	5	U	1	1	5	1	U	5	U	5	U	1	U	5	U
Aroclor-1221 (ug/Kg)	5	U	1	1	5	1	U	5	U	5	U	1	U	5	U
Aroclor-1232 (ug/Kg)	5	U	1	1	5	1	U	5	U	5	U	1	U	5	U
Aroclor-1242 (ug/Kg)	3	U	0.7	0.7	3	0.7	U	3	U	3	U	0.7	U	3	U
Aroclor-1248 (ug/Kg)	3	U	0.7	0.7	3	0.7	U	3	U	3	U	0.7	U	3	U
Aroclor-1254 (ug/Kg)	170	780	550	300	3	280	100	180	100	3	U	0.7	U	3	U
Aroclor-1260 (ug/Kg)	3	U	0.7	0.7	3	0.7	U	3	U	3	U	0.7	U	3	U
TOTAL PCBs	170	780	550	300	3	280	100	180	100	3	U	0.7	U	3	U
<b>TPH</b>															
NWTPH-Diesel (mg/Kg)	--	--	--	20	19	U	--	19	U	130	--	20	U	20	U
NWTPH-Heavy Oil (mg/Kg)	--	--	--	1100	2500	--	--	2500	--	860	--	3300	--	3800	--
<b>Insecticides</b>															
Bifenthrin (ug/Kg)	--	--	--	5	9	--	--	12	--	7	--	2	--	2	--
<b>Herbicides</b>															
Dichlobenil (ug/L)	--	--	--	21	6	--	--	19	--	2	--	2	--	18	--
<b>Phenolics</b>															
2-Methylphenol (ug/Kg dry)	--	--	--	38	38	UJ	--	38	UJ	38	UJ	38	UJ	38	UJ
4-Methylphenol (ug/Kg dry)	--	--	--	121	44	J	--	56	J	19	J	14	J	10	J
Pentachlorophenol (ug/Kg dry)	--	--	--	830	157	J	--	190	J	204	J	106	J	111	J
<b>PBDEs (ng/Kg)</b>															
PBDE-100	--	--	--	612	2110	--	--	2450	--	408	--	2780	--	145000	--
PBDE-128/154	--	--	--	350	914	--	--	1630	--	191	--	2530	--	86800	--
PBDE-138	--	--	--	46.8	38.2	U	--	46.3	U	47.2	U	490	--	8650	--
PBDE-153	--	--	--	308	899	--	--	1420	--	159	J	2950	--	77100	--
PBDE-183/176	--	--	--	400	317	J	--	387	UJ	159	U	1540	J	3310	--
PBDE-184	--	--	--	24.4	26.1	J	--	45.1	J	24.6	U	24.8	U	506	J
PBDE-191	--	--	--	30.1	44.6	J	--	54.1	J	55.1	J	191	J	184	J
PBDE-209	--	--	--	265000	90400	--	--	351000	--	996	U	165000	--	168000	--
PBDE-47	--	--	--	2540	8990	--	--	7300	--	1930	--	9120	--	396000	--
PBDE-49	--	--	--	207	641	--	--	948	--	162	J	2380	--	11400	--
PBDE-66	--	--	--	153	462	--	--	377	J	100	J	471	--	12400	--
PBDE-71	--	--	--	22.3	18.2	J	--	22.1	J	22.5	U	22.6	U	22.7	U
PBDE-99	--	--	--	2960	11300	--	--	10700	--	1810	--	13700	--	735000	--
Total PBDEs	--	--	--	272560.1	116059	--	--	375870	--	4760	--	201152	--	1644350	--

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(g,h,i)perylene, 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.  
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.  
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