

Table D-1.1  
Stormwater Analytical Data for Outfall 230 WY2017 - Composite Samples

	Storm 1 10/7/2016	Storm 2 10/15/2016	Storm 3 11/6/2016	Storm 4 Rejected 11/15/2016	Storm 5 12/4/2016	Storm 6 12/19/2016	Storm 7 1/8/2017	Storm 8 1/18/2017	Storm 9 2/4/2017	Storm 10 3/18/2017	Storm 11 4/6/2017	Storm 12 5/4/2017	Storm 13 6/16/2017	Storm 14 9/19/2017
<b>Conventionals</b>														
Anionic Surfactants - MBAS (mg/L)	-	51.1	-	25.0 UR	36.7	-	-	-	49.0 J	40.0	58.1	129	-	199
BOD (mg/L)	-	2.6	3.0	2.2 R	2.7	-	-	2.7 J	3.2	2.3	3.9	8.2	-	-
Chloride (mg/L)	-	1.65	-	0.891 R	2.65	-	-	-	30.1	2.09	2.07	2.89	-	8.20
Conductivity (uS/cm)	41.8	28.0	36.8	30.4 R	39.0	617	192	60.0	128	44.7	49.4	45.6	32.5	76.7
Hardness (mg CaCO3/L)	16.7	12.0	14.1	12.1 R	14.1	38.8	21.8	11.3	15.7	13.6	15.5	24.9	12.2	27.5
pH (pH Units)	7.3	6.3	6.9	7.7 R	6.8	7.8	7.0	7.0	7.1	7.2	7.6	7.3	7.1	7.2
Total Suspended Solids (mg/L)	43.4	60.2	40.6	22.0 R	13.9	17.2	46.6	36.4	19.2	18.6	12.2	183	23.1	103
Turbidity (NTU)	-	11.0	-	11.2 R	10.7	-	-	-	15.1 J	10.3	9.05	79.9	-	47.9
<b>Nutrients</b>														
Nitrate+Nitrite as N (mg/L)	-	0.150	0.160 J	0.120 R	0.096	-	0.115	0.113	0.156	0.099	0.172	0.239 J	0.203	0.426
Phosphate, Ortho (mg/L)	-	0.022	0.026	0.021 R	0.016	-	0.047	0.022 J	0.029 J	0.012	0.020	0.027	0.018	0.020
Phosphorus, Total (mg/L)	-	0.106	0.102	0.072 R	0.064	-	0.251	0.081	0.092	0.048	0.055	0.554	0.102	0.418
Total Nitrogen (mg/L)	-	0.33	0.47	0.23 R	0.29	-	1.07	0.31	0.53	0.28	0.48	0.86	0.66	2.10
<b>Metals</b>														
Cadmium (ug/L)	0.104 UJ	0.106 UJ	0.041 UJ	0.048 UJR	0.058 UJ	0.147 UJ	0.148 J	0.079 UJ	0.03 U	0.055 J	0.054 J	0.352 J	0.089 J	0.177 J
Cadmium, Dissolved (ug/L)	0.030 UJ	0.010 J	0.022 J	0.018 JR	0.033 UJ	0.109 UJ	0.040 J	0.024 UJ	0.061 U	0.050 U	0.050 U	0.050 U	0.050 U	0.066 UJ
Copper (ug/L)	12.3	9.15	5.44	5.41 R	4.51	8.22	13.9	7.35	6.87	7.14	8.46	41.4	12.3	39.6
Copper, Dissolved (ug/L)	5.16	2.49	2.30	1.67 R	2.07	4.62	3.92	2.24	3.77	2.61	5.28	6.24	6.89	18.1
Lead (ug/L)	11.9	12.0	5.90	8.01 R	4.46	5.77	15.7	8.24	4.32	7.39	4.94	64.9	6.81	25.5
Lead, Dissolved (ug/L)	0.604	0.305	0.401	0.299 R	0.280	0.396	0.307	0.244	0.312	0.257	0.475	0.739	0.516	1.30
Mercury (ng/L)	6.4	2.8 J	3.5 J	4.6 JR	3.3 J	3.9 J	5.7	4.2 J	2.4 J	6.0 J	9.0 J	5.5 J	6.5 J	10.1
Mercury, Dissolved (ng/L)	2.0 J	1.8 U	1.8 U	1.8 UR	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U	9.0 UJ	9.0 U	3.5 J
Zinc (ug/L)	96.9	75.8	37.2	40.4 R	52.4	102	110	57.3	60.4	48.3	56.7	231	70.8	200
Zinc, Dissolved (ug/L)	49.7	34.2	23.6	20.6 R	38.0	77.3	44.1	29.1	44.8	28.1	41.1	38.7	44.4	97.0
<b>Insecticides</b>														
Carbaryl (ug/L)	-	0.50 U	0.50 U	0.50 UR	0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.017 U	0.017 U	0.006 U	0.006 UJR	0.017 U	0.020 U	0.006 U	0.006 U	0.006 UJ	0.006 U	0.017 U	0.060 U	0.061 U	0.060 U
<b>LPAHs</b>														
2-Methylnaphthalene (ug/L)	0.008 U	0.009 J	0.005 UJ	0.005 UJR	0.040 J	0.014	0.026	0.014	0.020 J	0.009 J	0.008 U	0.007 J	0.003 U	0.013
Acenaphthene (ug/L)	0.006 U	0.006 U	0.004 UJ	0.004 UJR	0.006 UJ	0.007 U	0.004 U	0.006 J	0.005 J	0.007 J	0.012	0.005 U	0.005 U	0.005 UJ
Acenaphthylene (ug/L)	0.006 U	0.006 U	0.005 J	0.004 JR	0.006 UJ	0.007 U	0.011	0.008 J	0.006 J	0.004 J	0.006 U	0.006 J	0.003 U	0.003 U
Anthracene (ug/L)	0.005 U	0.008 J	0.006 J	0.007 JR	0.006 J	0.006 U	0.007 J	0.007 J	0.008 J	0.005 UJ	0.005 U	0.015	0.006 U	0.006 U
Fluorene (ug/L)	0.006 U	0.006 UJ	0.006 J	0.007 JR	0.013 J	0.008 U	0.014	0.010 J	0.009 J	0.006 J	0.006 U	0.010 J	0.006 J	0.005 U
Naphthalene (ug/L)	0.014 J	0.016 J	0.017 UJ	0.014 UJR	0.021 J	0.029	0.072	0.045 UJ	0.026 UJ	0.020 J	0.019	0.017	0.012 UJ	0.023 J
Phenanthrene (ug/L)	0.031	0.055	0.024 J	0.041 JR	0.048 J	0.037	0.064	0.051	0.058 J	0.028 J	0.023	0.099	0.038	0.040
Total LPAHs	0.0565	0.088	0.0515		0.094	0.08	0.17	0.1045	0.099	0.0675	0.0625	0.1495	0.057	0.0725
<b>HPAHs</b>														
Benzo(a)anthracene (ug/L)	0.019	0.045	0.018	0.038 JR	0.024 J	0.011 J	0.029	0.030	0.028 J	0.020	0.009 J	0.079	0.019	0.016
Benzo(a)pyrene (ug/L)	0.028	0.063	0.025	0.052 JR	0.031 J	0.013	0.036	0.039	0.033 J	0.029	0.014	0.107	0.026	0.025
Benzo(b,k)fluoranthene (ug/L)	0.081	0.202	0.053	0.108 JR	0.079 J	0.036	0.081	0.085	0.078 J	0.061	0.035	0.256	0.068	0.073
Benzo(g,h,i)perylene (ug/L)	0.027	0.050	0.034	0.048 JR	0.027 J	0.019	0.052	0.047	0.047 J	0.055	0.013	0.082	0.018	0.015
Chrysene (ug/L)	0.053	0.104	0.030	0.063 JR	0.051 J	0.026	0.051	0.056	0.057 J	0.042	0.025	0.149	0.024	0.049
Dibenz(a,h)anthracene (ug/L)	0.006 J	0.011	0.008 J	0.014 JR	0.006 J	0.003 U	0.011	0.011	0.010 J	0.012	0.003 U	0.022	0.004 U	0.005 J
Fluoranthene (ug/L)	0.063	0.121	0.043	0.086 JR	0.060	0.034	0.082	0.082	0.074 J	0.049	0.030	0.207	0.062	0.059
Indeno(1,2,3-c,d)pyrene (ug/L)	0.021	0.048	0.034	0.051 JR	0.023	0.011 J	0.042	0.041	0.035 J	0.044	0.009 J	0.092	0.013	0.015
Pyrene (ug/L)	0.059	0.107	0.043	0.084 JR	0.081 J	0.044	0.093	0.084	0.089 J	0.056	0.039	0.198	0.061	0.058
Total HPAHs	0.357	0.751	0.288		0.382	0.1955	0.477	0.475	0.451	0.368	0.1755	1.192	0.293	0.315
TOTAL PAHs	0.4135	0.839	0.3395		0.476	0.2755	0.647	0.5795	0.55	0.4355	0.238	1.3415	0.35	0.3875
<b>Phthalates</b>														
Bis(2-ethylhexyl) phthalate (ug/L)	1.88	1.90	2.30	1.96 R	1.89	1.67	2.68	2.24	2.74 J	2.26	2.14	2.75	3.20	2.90
Butyl benzyl phthalate (ug/L)	0.603 U	0.603 U	0.206 J	0.267 JR	0.603 U	0.721 U	0.344 J	0.220 J	0.321 J	0.268 J	0.582 U	0.433 J	0.434 U	0.430 U
Diethyl phthalate (ug/L)	0.520 U	0.520 UJ	0.546 J	0.344 JR	0.520 U	0.622 U	0.400 J	0.157 U	0.268 J	0.257 J	0.502 U	0.439 J	0.283 U	0.280 U
Dimethyl phthalate (ug/L)	0.455 U	0.455 U	0.077 UJ	0.077 UJR	0.455 U	0.544 U	0.077 U	0.077 UJ	0.077 UJ	0.078 UJ	0.439 U	0.270 U	0.273 U	0.270 U
Di-n-butyl phthalate (ug/L)	0.508 U	0.508 U	0.300 J	0.273 JR	0.508 U	0.607 U	0.355 J	0.230 J	0.376 J	0.323 J	0.491 U	0.290 U	0.293 U	0.290 U
Di-n-octyl phthalate (ug/L)	0.501 J	0.464 J	0.468 J	0.406 JR	0.403 J	0.410 U	0.564 J	0.367 J	0.575 J	0.580 J	0.611 J	0.466 J	1.08	1.52
Total Phthalates	2.381	2.364	3.82		2.293	1.67	4.343	3.057	4.28	3.688	2.751	4.088	4.28	4.42
<b>Herbicides</b>														
2,4-D (ug/L)	-	0.12	0.069 J	0.17 JR	0.045 J	-	0.036 J	0.018 U	0.10 J	0.023 J	0.60	0.47	0.46	-
Dichlobenil (ug/L)	0.021 J	0.020 U	0.017 J	0.012 JR	0.023 J	0.024 U	0.023 J	0.016 J	0.064 J	0.162 J	0.053 J	0.091 J	0.055 J	0.040 U

**UR** - 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-1.2  
Stormwater Analytical Data for Outfall 230 WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/7/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>										
NWTPH-Diesel (mg/L)	<b>0.13</b> J	0.10 UJ	<b>0.11</b>	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 U	<b>Unusable</b> R
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.76</b> J	<b>0.54</b> J	<b>0.78</b> J	<b>1.4</b>	<b>1.3</b>	<b>0.59</b> J	<b>0.50</b> J	<b>0.53</b>	<b>0.67</b>	<b>Unusable</b> R
<b>Bacteria</b>										
Coliform, Fecal (CFU/100mL)	<b>16,000</b> E	<b>9,200</b>	<b>16,000</b> E	<b>5,400</b>	<b>2,400</b>	<b>3,500</b>	<b>790</b>	<b>2,800</b>	<b>16,000</b>	<b>3,500</b>
<b>BTEX</b>										
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	0.4 J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	<b>0.5</b> J	0.2 J	0.2 U	0.2 U	0.2 J	0.2 U	0.2 U	0.2 U	<b>0.3</b> J	0.2 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-2.1  
Stormwater Analytical Data for Outfall 235 WY2017 - Composite Samples**

	Storm 1 10/15/2016	Storm 2 11/14/2016	Storm 3 12/4/2016	Storm 4 12/19/2016	Storm 5 1/8/2017	Storm 6 1/18/2017	Storm 7 2/4/2017	Storm 8 2/15/2017	Storm 9 3/19/2017	Storm 10 4/5/2017	Storm 11 6/16/2017	Storm 12 9/18/2017
<b>Conventionals</b>												
Anionic Surfactants - MBAS (mg/L)	37.6	45.0	25.0 U	–	–	–	30.8	27.9	28.2	64.7	83.8	–
BOD (mg/L)	2.0 U	2.0 U	2.1	–	4.4	2.9	2.3	2.0 U	2.0	3.8	4.1	–
Chloride (mg/L)	2.26	2.48	3.22	–	–	–	45.0	46.1	6.92	4.52	2.96	–
Conductivity (uS/cm)	42.0	69.6	65.0	1590	386	386	158	121	107	77.6	65.0	140
Hardness (mg CaCO3/L)	18.2	28.1	26.2	60.5	31.7	20.3	20.7	18.0	37.4	29.0	26.6	54.8
pH (pH Units)	6.3	7.0	6.9	7.3	7.6	7.0	7.1	6.7	7.5	7.2	6.8	6.5
Total Suspended Solids (mg/L)	15.2	5.60	16.8	33.5	66.5	45.4	21.6	28.6	19.2	16.4	28.8	126
Turbidity (NTU)	7.87	5.13	11.2	–	–	–	21.9	20.6	16.5	15.9	16.8	–
<b>Nutrients</b>												
Nitrate+Nitrite as N (mg/L)	0.313	0.206	0.189	–	0.255	0.212	0.227	0.162	0.270	0.295	0.346	0.661
Phosphate, Ortho (mg/L)	0.025	0.031 J	0.020	0.046	0.047	0.028	0.023	0.019	0.023	0.020	0.021	–
Phosphorus, Total (mg/L)	0.052	0.063	0.069	–	0.164	0.106	0.096	0.059	0.055	0.073	0.127	0.329
Total Nitrogen (mg/L)	0.46	0.36	0.44	–	0.72	0.52	0.62	0.37	0.50	0.59	0.75	2.77
<b>Metals</b>												
Cadmium (ug/L)	0.042 UJ	0.028 UJ	0.043 UJ	0.263 UJ	0.112 J	0.091 UJ	0.071 U	0.103 J	0.062 J	0.061 J	0.104 J	0.224 J
Cadmium, Dissolved (ug/L)	0.010 U	0.017 J	0.022 UJ	0.180 UJ	0.042 J	0.028 UJ	0.059 U	0.050 U	0.050 U	0.050 U	0.050 U	0.055 J
Copper (ug/L)	12.7	16.0	17.4	29.1	25.8	20.9	18.3	16.6	18.1	22.5	30.7	81.5
Copper, Dissolved (ug/L)	7.11	10.7	8.32	15.3	10.5	6.35	8.51	5.86	6.80	11.8	15.2	27.4
Lead (ug/L)	19.8	20.7	22.6	32.2	29.9	31.0	20.9	27.7	23.4	31.2	40.0	72.3
Lead, Dissolved (ug/L)	3.61	8.83	2.91	2.64	2.70	2.13	2.01	1.96	2.38	7.05	5.75	40.9
Mercury (ng/L)	3.3 J	3.4 J	3.5 J	5.3	5.5	6.0	3.1 J	8.0 J	8.5 J	8.5 J	6.5 J	11.7
Mercury, Dissolved (ng/L)	1.8 U	2.7 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U	9.0 U	9.0 U	2.1 J
Zinc (ug/L)	41.0	36.7	51.2	118	96.3	79.0	61.9	56.7	43.4	62.9	89.2	247
Zinc, Dissolved (ug/L)	27.2	27.5	30.4	65.6	35.2	26.7	32.9	23.6	20.6	33.5	35.1	75.8
<b>Insecticides</b>												
Carbaryl (ug/L)	0.50 U	0.50 U	0.50 U	–	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.017 U	0.006 UJ	0.017 U	0.017 U	0.007 U	0.006 U	0.006 UJ	0.017 U	0.006 U	0.016 U	0.061 U	0.062 U
<b>LPAHs</b>												
2-Methylnaphthalene (ug/L)	0.008 U	0.005 UJ	0.008 UJ	0.227	0.012	0.008 J	0.006 J	0.016 J	0.005 UJ	0.008 U	0.003 U	0.014
Acenaphthene (ug/L)	0.006 U	0.004 UJ	0.006 UJ	0.019	0.006 J	0.005 J	0.004 UJ	0.016	0.004 UJ	0.010	0.005 U	0.005 UJ
Acenaphthylene (ug/L)	0.008 J	0.003 UJ	0.006 UJ	0.011	0.009 J	0.009 J	0.005 J	0.013	0.009 J	0.006 U	0.003 U	0.007 J
Anthracene (ug/L)	0.017	0.005 UJ	0.005 UJ	0.013	0.010 J	0.018	0.008 J	0.013	0.021 J	0.008 J	0.007 J	0.019
Fluorene (ug/L)	0.006 U	0.004 UJ	0.006 UJ	0.035	0.009 J	0.006 J	0.014	0.004 UJ	0.006 U	0.005 U	0.005 U	0.017
Naphthalene (ug/L)	0.008 UJ	0.007 UJ	0.008 UJ	0.094	0.038 UJ	0.025 UJ	0.015 UJ	0.046 J	0.011 J	0.015	0.012 UJ	0.019 J
Phenanthrene (ug/L)	0.009 J	0.008 J	0.014 J	0.166	0.064	0.038	0.021 J	0.060	0.031 J	0.017	0.017	0.054
<b>Total LPAHs</b>	<b>0.044</b>	<b>0.0195</b>	<b>0.0295</b>	<b>0.338</b>	<b>0.117</b>	<b>0.0885</b>	<b>0.0495</b>	<b>0.162</b>	<b>0.076</b>	<b>0.056</b>	<b>0.0365</b>	<b>0.1185</b>
<b>HPAHs</b>												
Benzo(a)anthracene (ug/L)	0.017	0.007 J	0.013 J	0.060	0.028	0.046	0.019 J	0.026	0.040	0.015	0.013	0.017
Benzo(a)pyrene (ug/L)	0.019	0.007 UJ	0.015 J	0.064	0.039	0.047	0.020 J	0.032	0.046	0.020	0.019	0.027
Benzo(b,k)fluoranthene (ug/L)	0.055	0.014 J	0.034 J	0.154	0.088	0.102	0.044 J	0.084	0.095	0.048	0.046	0.079
Benzo(g,h,i)perylene (ug/L)	0.012	0.009 J	0.017 J	0.047	0.057	0.047	0.027 J	0.028	0.064	0.019	0.019	0.018
Chrysene (ug/L)	0.029	0.009 J	0.028 J	0.103	0.068	0.076	0.035 J	0.057	0.062	0.034	0.021	0.032
Dibenz(a,h)anthracene (ug/L)	0.003 U	0.004 UJ	0.003 UJ	0.009 J	0.012	0.011	0.006 J	0.006 J	0.015	0.004 J	0.004 U	0.006 J
Fluoranthene (ug/L)	0.029	0.017 J	0.030	0.183	0.119	0.105	0.053 J	0.086	0.082	0.034	0.047	0.084
Indeno(1,2,3-c,d)pyrene (ug/L)	0.011	0.007 J	0.009 J	0.034	0.038	0.040	0.019 J	0.020	0.058	0.012	0.010	0.018
Pyrene (ug/L)	0.033	0.026 J	0.054 J	0.231	0.139	0.120	0.069 J	0.097	0.098	0.058	0.066	0.078
<b>Total HPAHs</b>	<b>0.2065</b>	<b>0.0945</b>	<b>0.2015</b>	<b>0.885</b>	<b>0.588</b>	<b>0.594</b>	<b>0.292</b>	<b>0.436</b>	<b>0.56</b>	<b>0.244</b>	<b>0.243</b>	<b>0.359</b>
<b>TOTAL PAHs</b>	<b>0.2505</b>	<b>0.114</b>	<b>0.231</b>	<b>1.223</b>	<b>0.705</b>	<b>0.6825</b>	<b>0.3415</b>	<b>0.598</b>	<b>0.636</b>	<b>0.3</b>	<b>0.2795</b>	<b>0.4775</b>
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate (ug/L)	0.783 J	1.21	1.63	19.3	3.01	2.58	1.78 J	1.74	1.93	1.94	3.01	2.62
Butyl benzyl phthalate (ug/L)	0.603 U	0.342 J	0.597 U	7.93	0.583 J	0.334 J	0.380 J	0.707 J	0.365 J	0.579 U	0.434 U	0.443 U
Diethyl phthalate (ug/L)	0.520 U	0.156 UJ	0.515 U	0.526 U	0.177 U	0.157 U	0.157 UJ	0.526 U	0.163 J	0.500 U	0.283 U	0.582 J
Dimethyl phthalate (ug/L)	0.455 U	0.077 UJ	0.451 U	0.460 U	0.087 U	0.077 U	0.077 UJ	0.460 U	0.078 UJ	0.437 U	0.273 U	0.278 U
Di-n-butyl phthalate (ug/L)	0.508 U	0.242 J	0.503 U	0.513 U	0.261 J	0.191 J	0.266 J	0.513 U	0.234 J	0.488 U	0.293 U	0.347 J
Di-n-octyl phthalate (ug/L)	0.343 UJ	0.349 J	0.339 UJ	0.420 J	0.525 J	0.307 J	0.307 J	0.346 UJ	0.365 J	0.394 J	0.892 J	1.19
<b>Total Phthalates</b>	<b>0.783</b>	<b>2.143</b>	<b>1.63</b>	<b>27.65</b>	<b>4.379</b>	<b>3.412</b>	<b>2.733</b>	<b>2.447</b>	<b>3.057</b>	<b>2.334</b>	<b>3.902</b>	<b>4.739</b>
<b>Herbicides</b>												
2,4-D (ug/L)	0.14	0.083 J	0.044 J	0.084 J	0.037 J	0.031 J	0.050 J	0.031 J	0.026 J	12	1.7	–
Dichlobenil (ug/L)	0.020 U	0.007 UJ	0.020 U	0.020 U	0.009 J	0.069 J	0.082 J	0.078 J	0.058 J	0.040 J	0.041 UJ	0.041 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-2.2  
Stormwater Analytical Data for Outfall 235 WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/7/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>										
NWTPH-Diesel (mg/L)	<b>0.11</b> J	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.62</b> J	<b>0.66</b> J	<b>0.39</b> J	<b>1.1</b>	<b>1.0</b>	<b>0.54</b>	<b>0.54</b> J	<b>0.32</b> J	<b>0.54</b>	<b>1.1</b> J
<b>Bacteria</b>										
Coliform, Fecal (CFU/100mL)	<b>5,400</b>	<b>16,000</b> E	<b>3,500</b>	<b>3,500</b>	<b>1,700</b>	<b>1,700</b>	<b>1,300</b>	<b>16,000</b> E	<b>2,400</b>	<b>9,200</b> J
<b>BTEX</b>										
Benzene (ug/L)	<b>0.7</b>	0.2 U	0.2 U	0.2 U	<b>0.2</b> J	0.2 U	0.2 U	<b>0.4</b> J	<b>0.3</b> J	<b>0.3</b> J
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	<b>0.6</b> J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	<b>0.7</b>	0.2 U	0.2 U	0.2 U	<b>0.3</b> J	<b>0.4</b> J	0.2 U	0.2 U	0.2 U	<b>0.2</b> 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-3.1  
Stormwater Analytical Data for Outfall 237A New WY2017 - Composite Samples**

	Storm 1 10/7/2016	Storm 2 10/15/2016	Storm 3 11/6/2016	Storm 4 11/15/2016	Storm 5 12/3/2016	Storm 6 12/19/2016	Storm 7 1/18/2017	Storm 8 2/26/2017	Storm 9 3/19/2017	Storm 10 4/6/2017	Storm 11 5/4/2017	Storm 12 6/16/2017
<b>Conventionals</b>												
Anionic Surfactants - MBAS (mg/L)	-	51.9	28.8	27.5	33.8	-	37.1	35.0	30.4	66.7	-	95.4
BOD (mg/L)	-	2.0 U	2.3	2.0 U	2.6	-	2.6	2.7	2.0 U	5.1	-	6.8
Chloride (mg/L)	-	4.30	3.04	3.79	4.28	-	27.0	39.6	5.40	4.91	-	4.51
Conductivity (uS/cm)	68.5	48.0	55.0	61.2	73.4	480	129	319	89.6	89.3	49.7	77.0
Hardness (mg CaCO3/L)	30.3	21.0	22.2	21.0	28.7	47.8	23.9	53.3	31.7	32.7	40.7	27.8
pH (pH Units)	7.3	6.6	7.2	7.1	7.4	7.3	6.8	7.2	6.9	7.6	7.3	6.8
Total Suspended Solids (mg/L)	52.0	48.3	19.2	23.7	23.9	26.8	38.0	11.6	20.6	16.6	668	30.0
Turbidity (NTU)	-	23.0	12.2	14.4	12.7	-	22.1	19.6	13.3	14.6	-	14.4
<b>Nutrients</b>												
Nitrate+Nitrite as N (mg/L)	0.656	0.295	0.300	0.237	0.396	-	0.268	0.839	0.515	0.558	0.221 J	0.524
Phosphate, Ortho (mg/L)	-	0.023	0.024	0.022	0.020	-	0.016	0.027	0.015	0.018	0.011	0.026
Phosphorus, Total (mg/L)	0.117	0.100	0.064	0.075	0.085	-	0.093	0.057	0.049	0.069	1.15	0.081
Total Nitrogen (mg/L)	0.87	0.43	0.41	0.36	0.61	-	0.50	0.99	0.67	0.84	0.82	0.81
<b>Metals</b>												
Cadmium (ug/L)	0.103 UJ	0.079 UJ	0.039 UJ	0.057 UJ	0.049 UJ	0.147 UJ	0.092 UJ	0.066 J	0.049 J	0.047 J	0.615	0.061 J
Cadmium, Dissolved (ug/L)	0.014 UJ	0.010 U	0.025 J	0.015 J	0.017 UJ	0.083 UJ	0.031 UJ	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Copper (ug/L)	10.6	8.86	5.98	6.38	6.06	9.01	10.7	6.06	5.89	7.53	69.1	10.0
Copper, Dissolved (ug/L)	3.45	2.74	2.93	2.05	2.32	3.40	2.43	2.94	2.24	3.68	4.16	4.34
Lead (ug/L)	9.44	7.69	3.86	6.72	4.72	5.98	9.67	3.39	4.71	3.81	80.6	5.33
Lead, Dissolved (ug/L)	0.411	0.254	0.285	0.250	0.215 UJ	0.161 UJ	0.169	0.265	0.298	0.246	0.382	0.259
Mercury (ng/L)	4.5 J	4.7 J	3.6 J	6.2	2.7 J	3.9 J	6.1	4.1 U	6.5 J	7.0 J	4.5 J	5.0 J
Mercury, Dissolved (ng/L)	1.8 U	1.8 U	2.9 J	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U	9.0 U	9.0 UJ	9.0 U
Zinc (ug/L)	74.6	62.5	35.0	40.6	52.4	352	70.8	45.2	35.9	81.1	333	56.6
Zinc, Dissolved (ug/L)	27.6	27.5	21.3	19.8	31.8	289	28.6	29.4	20.4	55.0	23.3	26.8
<b>Insecticides</b>												
Carbaryl (ug/L)	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.017 U	0.017 U	0.006 U	0.006 UJ	0.017 U	0.022 U	0.006 U	0.017 U	0.006 U	0.016 U	0.059 UJ	0.061 U
<b>LPAHs</b>												
2-Methylnaphthalene (ug/L)	0.008 U	0.008 U	0.005 UJ	0.007 J	0.008 UJ	0.016	0.016	0.010	0.005 UJ	0.008 U	0.011 J	0.005 J
Acenaphthene (ug/L)	0.006 U	0.006 U	0.004 UJ	0.004 UJ	0.006 UJ	0.008 U	0.005 J	0.006 U	0.004 UJ	0.006 U	0.005 UJ	0.005 U
Acenaphthylene (ug/L)	0.006 U	0.006 U	0.003 UJ	0.004 J	0.006 UJ	0.008 U	0.003 U	0.006 U	0.004 UJ	0.006 U	0.008 J	0.003 U
Anthracene (ug/L)	0.007 J	0.008 J	0.005 UJ	0.005 UJ	0.005 UJ	0.006 U	0.011	0.005 U	0.005 UJ	0.005 U	0.070 J	0.006 U
Fluorene (ug/L)	0.006 U	0.007 U	0.005 J	0.006 J	0.007 UJ	0.010 J	0.008 J	0.006 U	0.004 UJ	0.006 U	0.020 J	0.005 U
Naphthalene (ug/L)	0.016 J	0.017 J	0.012 UJ	0.016 UJ	0.009 J	0.032	0.035 UJ	0.019	0.011 J	0.014	0.016 J	0.012 UJ
Phenanthrene (ug/L)	0.053	0.067	0.016 J	0.031 J	0.021 J	0.050	0.083	0.023	0.030 J	0.022	0.831 J	0.019
<b>Total LPAHs</b>	<b>0.085</b>	<b>0.1015</b>	<b>0.033</b>	<b>0.0535</b>	<b>0.042</b>	<b>0.103</b>	<b>0.126</b>	<b>0.0535</b>	<b>0.0495</b>	<b>0.0475</b>	<b>0.9475</b>	<b>0.0345</b>
<b>HPAHs</b>												
Benzo(a)anthracene (ug/L)	0.051	0.072	0.013	0.030 J	0.013 J	0.027	0.071	0.016	0.029	0.013	0.719 J	0.018
Benzo(a)pyrene (ug/L)	0.081	0.110	0.018	0.040 J	0.017 J	0.039	0.102	0.021	0.040	0.023	0.864 J	0.029
Benzo(b,k)fluoranthene (ug/L)	0.279	0.368	0.040	0.094 J	0.048 J	0.115	0.253	0.072	0.094	0.075	2.07 J	0.095
Benzo(g,h,i)perylene (ug/L)	0.069	0.079	0.026	0.041 J	0.019 J	0.041	0.105	0.029	0.069	0.022	0.415 J	0.018
Chrysene (ug/L)	0.149	0.182	0.024	0.053 J	0.032 J	0.076	0.140	0.043	0.059	0.044	1.10 J	0.053
Dibenz(a,h)anthracene (ug/L)	0.016	0.019	0.007 J	0.009 J	0.003 U	0.007 J	0.024	0.006 J	0.015	0.005 J	0.116 J	0.004 U
Fluoranthene (ug/L)	0.199	0.219	0.034	0.078 J	0.037	0.082	0.209	0.045	0.076	0.049	2.03 J	0.058
Indeno(1,2,3-c,d)pyrene (ug/L)	0.065	0.082	0.025	0.043 J	0.012	0.033	0.110	0.026	0.065	0.020	0.578 J	0.017
Pyrene (ug/L)	0.172	0.184	0.033	0.070 J	0.048 J	0.100	0.189	0.055	0.085	0.055	1.73 J	0.058
<b>Total HPAHs</b>	<b>1.081</b>	<b>1.315</b>	<b>0.22</b>	<b>0.458</b>	<b>0.2275</b>	<b>0.52</b>	<b>1.203</b>	<b>0.313</b>	<b>0.532</b>	<b>0.306</b>	<b>9.622</b>	<b>0.348</b>
<b>TOTAL PAHs</b>	<b>1.166</b>	<b>1.4165</b>	<b>0.253</b>	<b>0.5115</b>	<b>0.2695</b>	<b>0.623</b>	<b>1.329</b>	<b>0.3665</b>	<b>0.5815</b>	<b>0.3535</b>	<b>10.5695</b>	<b>0.3825</b>
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate (ug/L)	1.60	1.84	1.90	1.68	1.50	1.88	2.49	1.76	2.11	1.66	3.04 J	1.94
Butyl benzyl phthalate (ug/L)	0.597 U	0.609 U	0.183 U	0.182 U	0.609 U	0.768 U	0.246 J	0.582 U	0.234 J	0.577 U	0.426 UJ	0.434 U
Diethyl phthalate (ug/L)	0.515 U	0.526 U	0.180 J	0.241 J	0.526 U	0.662 U	0.157 U	0.502 U	0.160 U	0.498 U	0.277 UJ	0.283 U
Dimethyl phthalate (ug/L)	0.451 U	0.460 U	0.077 UJ	0.076 UJ	0.460 U	0.579 U	0.077 U	0.439 U	0.079 UJ	0.435 U	0.267 UJ	0.273 U
Di-n-butyl phthalate (ug/L)	0.503 U	0.513 U	0.193 J	0.274 J	0.513 U	0.647 U	0.253 J	0.491 U	0.464 J	0.486 U	0.290 J	0.293 U
Di-n-octyl phthalate (ug/L)	0.339 U	0.379 J	0.517 J	0.334 J	0.346 U	0.436 U	0.326 J	0.375 J	0.323 J	0.342 J	0.426 J	0.637 J
<b>Total Phthalates</b>	<b>1.6</b>	<b>2.219</b>	<b>2.79</b>	<b>2.529</b>	<b>1.5</b>	<b>1.88</b>	<b>3.315</b>	<b>2.135</b>	<b>3.131</b>	<b>2.002</b>	<b>3.756</b>	<b>2.577</b>
<b>Herbicides</b>												
2,4-D (ug/L)	-	0.22	0.29	0.081 J	0.065 J	-	0.080 J	0.064 J	0.063 J	0.28	1.0	0.55
Dichlobenil (ug/L)	0.029 J	0.043 J	0.024 J	0.044 J	0.020 U	0.026 U	0.058 J	0.045 J	0.111 J	0.048 J	0.079 J	0.041 UJ

**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 New WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/17/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>										
NWTPH-Diesel (mg/L)	<b>0.14</b> J	0.10 UJ	0.10 U	<b>0.13</b>	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.92</b> J	<b>0.48</b> J	<b>0.30</b> J	<b>2.1</b>	<b>0.97</b>	<b>0.66</b>	<b>0.53</b> J	<b>0.63</b>	<b>0.60</b>	<b>0.66</b> J
<b>Bacteria</b>										
Coliform, Fecal (CFU/100mL)	<b>16000</b>	<b>2200</b>	<b>2200</b>	<b>2400</b>	<b>330</b>	<b>700</b>	<b>1100</b>	<b>16000</b>	<b>5400</b>	<b>5400</b>
<b>BTEX</b>										
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	<b>0.4</b> J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	0.2 U	<b>0.2</b> J	0.2 U	0.2 U	<b>0.8</b>	<b>0.3</b> J	0.2 U	0.2 U	0.2 U	0.2 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-4.1  
Stormwater Analytical Data for Outfall 237 B WY2017 - Composite Samples**

	Rejected Storm 10/14/2016	Storm 1 11/6/2016	Storm 2 11/15/2016	Storm 3 12/4/2016	Storm 4 1/8/2017	Storm 5 1/18/2017	Storm 6 2/4/2017	Storm 7 2/15/2017	Storm 8 3/18/2017	Storm 9 4/5/2017	Storm 10 6/16/2017	Storm 11 9/19/2017
<b>Conventionals</b>												
Anionic Surfactants - MBAS (mg/L)	41.6 R	28.3	32.6	31.3	-	43.0	41.6	25.0 U	-	-	69.7	84.6
BOD (mg/L)	2.8 R	2.2	2.5	2.5	-	3.6	3.0	2.0 U	-	-	-	4.4
Chloride (mg/L)	6.58 R	2.47	1.87	4.26	-	14.6	10.0	7.71	-	-	3.03	8.57
Conductivity (uS/cm)	152 R	81.2	94.6	109	366	126	132	95.0	129	230	91.7	235
Hardness (mg CaCO3/L)	68.8 R	36.5	31.1	46.3	61.4	43.2	52.2	37.0	53.0	55.6	39.4	96.4
pH (pH Units)	7.1 R	7.0	6.9	6.9	7.6	7.0	6.9	6.9	7.3	6.9	7.2	6.6
Total Suspended Solids (mg/L)	21.5 R	19.6	77.8	21.6	-	49.8	31.4	28.2	13.0	15.8	45.7	16.0
Turbidity (NTU)	12.8 R	19.2	40.0	20.2	-	50.2	29.0	21.6	-	-	18.1	11.8
<b>Nutrients</b>												
Nitrate+Nitrite as N (mg/L)	1.70 R	0.791	0.628	0.936	-	0.938	1.12	0.749	1.10	1.35	0.990	2.72
Phosphate, Ortho (mg/L)	0.026 R	0.022	0.027	0.015	-	0.021	0.023	0.016	0.016 J	0.019	0.020	0.031
Phosphorus, Total (mg/L)	0.079 R	0.079	0.150	0.076	-	0.130	0.101	0.071	0.045	0.078	0.097	0.109
Total Nitrogen (mg/L)	1.62 R	0.87	0.76	1.03	-	1.14	1.40	0.96	1.15	1.45	1.23	3.19
<b>Metals</b>												
Cadmium (ug/L)	0.028 UR	0.040 UJ	0.102 UJ	0.049 UJ	0.138 J	0.092 UJ	0.065 U	0.065 J	0.041 J	0.048 J	0.079 J	0.043 U
Cadmium, Dissolved (ug/L)	0.010 UR	0.018 J	0.015 J	0.012 UJ	0.051 J	0.019 UJ	0.026 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Copper (ug/L)	5.30 R	5.07	9.68	5.05	12.5	10.1	7.15	5.90	4.23	5.17	7.91	7.10
Copper, Dissolved (ug/L)	1.84 R	2.43	2.20	1.47	3.67	2.31	2.14	2.09	2.22	2.45	2.50	3.75
Lead (ug/L)	4.26 R	3.19	11.0	4.16	8.00	9.41	5.63	4.97	2.20	2.98	6.09	2.44
Lead, Dissolved (ug/L)	0.092 UR	0.174	0.168	0.137 UJ	0.162	0.200	0.192 UJ	0.188	0.239	0.246	0.192	0.245
Mercury (ng/L)	4.1 JR	4.4 J	9.9	5.3	5.0	7.7	7.5 J	8.0 J	6.5 J	8.5 J	6.0 J	2.7 J
Mercury, Dissolved (ng/L)	1.8 UR	3.0 J	2.0 J	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U	9.0 U	9.0 U	1.8 U
Zinc (ug/L)	29.4 R	25.0	48.4	32.7	73.7	55.3	40.9	31.7	22.6	28.5	52.8	35.2
Zinc, Dissolved (ug/L)	11.8 R	13.4	14.0	14.5	25.2	17.8	16.7	15.2	14.1	26.0	19.7	17.6
<b>Insecticides</b>												
Carbaryl (ug/L)	0.50 UR	0.50 U	0.50 U	0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.017 UR	0.006 U	0.006 UJ	0.017 U	0.006 U	0.006 U	0.006 UJ	0.018 U	0.006 U	0.017 U	0.061 U	0.062 U
<b>LPAHs</b>												
2-Methylnaphthalene (ug/L)	0.008 UR	0.005 UJ	0.008 J	0.013 J	0.013	0.005 U	0.005 UJ	0.019 J	0.007 J	0.008 U	0.003 U	0.007 J
Acenaphthene (ug/L)	0.006 UR	0.004 UJ	0.004 UJ	0.006 UJ	0.008 J	0.004 U	0.004 UJ	0.006 U	0.004 UJ	0.006 U	0.005 U	0.005 UJ
Acenaphthylene (ug/L)	0.006 UR	0.003 UJ	0.007 J	0.006 UJ	0.007 J	0.008 J	0.004 J	0.006 U	0.004 UJ	0.006 U	0.003 U	0.004 U
Anthracene (ug/L)	0.005 UR	0.005 UJ	0.011 J	0.005 UJ	0.007 J	0.006 J	0.005 UJ	0.005 U	0.005 UJ	0.005 U	0.006 U	0.006 U
Fluorene (ug/L)	0.006 UR	0.005 J	0.009 J	0.006 UJ	0.016	0.004 U	0.004 UJ	0.007 U	0.006 J	0.006 U	0.005 U	0.005 U
Naphthalene (ug/L)	0.008 UR	0.013 J	0.013 UJ	0.018 J	0.023 UJ	0.022 UJ	0.009 UJ	0.035 J	0.014 J	0.013	0.012 UJ	0.012 UJ
Phenanthrene (ug/L)	0.010 R	0.014 J	0.053 J	0.028 J	0.063	0.045	0.034 J	0.039	0.016 J	0.016	0.011	0.019
<b>Total LPAHs</b>	R	0.0315	0.0885	0.0575	0.1125	0.074	0.049	0.086	0.0425	0.0405	0.0265	0.035
<b>HPAHs</b>												
Benzo(a)anthracene (ug/L)	0.005 UR	0.010 J	0.036 J	0.018 J	0.027	0.023	0.019 J	0.014	0.007 J	0.011	0.007 J	0.010 J
Benzo(a)pyrene (ug/L)	0.007 JR	0.013	0.051 J	0.025 J	0.038	0.031	0.026 J	0.020	0.010 J	0.014	0.013	0.016
Benzo(b,k)fluoranthene (ug/L)	0.019 JR	0.023	0.103 J	0.074 J	0.085	0.074	0.056 J	0.056	0.019 J	0.035	0.036	0.048
Benzo(g,h,i)perylene (ug/L)	0.011 R	0.015	0.045 J	0.024 J	0.052	0.038	0.034 J	0.018	0.020	0.014	0.008 J	0.012 J
Chrysene (ug/L)	0.014 R	0.014	0.064 J	0.051 J	0.059	0.050	0.043 J	0.033	0.016	0.025	0.013	0.028
Dibenz(a,h)anthracene (ug/L)	0.003 UR	0.005 J	0.010 J	0.004 J	0.010	0.009 J	0.007 J	0.005 J	0.005 U	0.002 U	0.004 U	0.004 U
Fluoranthene (ug/L)	0.018 R	0.021	0.094 J	0.057	0.092	0.074	0.060 J	0.048	0.019	0.029	0.026	0.036
Indeno(1,2,3-c,d)pyrene (ug/L)	0.007 JR	0.015	0.046 J	0.019	0.038	0.032	0.028 J	0.015	0.014	0.009 J	0.006 J	0.013
Pyrene (ug/L)	0.018 R	0.023	0.092 J	0.067 J	0.117	0.075	0.071 J	0.052	0.027	0.043	0.033	0.038
<b>Total HPAHs</b>	R	0.139	0.541	0.339	0.518	0.406	0.344	0.261	0.1345	0.181	0.144	0.203
<b>TOTAL PAHs</b>	R	0.1705	0.6295	0.3965	0.6305	0.48	0.393	0.347	0.177	0.2215	0.1705	0.238
<b>Phthalates</b>												
Bis(2-ethylhexyl) phthalate (ug/L)	0.460 UR	1.90	2.30	1.68	2.58	1.47	1.70 J	1.07	1.38	2.95	1.32	2.14
Butyl benzyl phthalate (ug/L)	0.603 UR	0.185 U	0.183 U	0.603 U	0.185 U	0.185 U	0.187 U	0.616 U	0.413 J	0.581 U	0.434 U	0.443 U
Diethyl phthalate (ug/L)	0.520 UR	0.157 UJ	0.159 J	0.520 U	0.209 J	0.157 U	0.159 UJ	0.531 U	0.188 J	0.501 U	0.283 U	0.289 U
Dimethyl phthalate (ug/L)	0.455 UR	0.077 UJ	0.077 UJ	0.455 U	0.077 U	0.077 U	0.078 UJ	0.465 U	0.079 UJ	0.438 U	0.273 U	0.278 U
Di-n-butyl phthalate (ug/L)	0.508 UR	0.210 J	0.231 J	0.508 U	0.356 J	0.220 J	0.168 J	0.519 U	0.349 J	0.489 U	0.293 U	0.299 U
Di-n-octyl phthalate (ug/L)	0.343 UR	0.215 U	0.271 J	0.343 U	0.739 J	0.215 U	0.329 J	0.350 U	0.256 J	0.330 U	0.444 J	1.63
<b>Total Phthalates</b>	R	2.11	2.961	1.68	3.884	1.69	2.197	1.07	2.586	2.95	1.764	3.77
<b>Herbicides</b>												
2,4-D (ug/L)	0.18 R	0.18	0.19 J	0.27 J	-	0.037 J	0.063 J	0.043 J	-	1.6	-	0.42
Dichlobenil (ug/L)	0.020 UR	0.037 J	0.034 J	0.020 U	0.010 J	0.025 J	0.026 J	0.059 J	0.041 J	0.267	0.041 UJ	0.041 U

**Bold** - The analyte was present in the sample.  
 U - The analyte was not detected at or above the reported value.  
 UR - 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 237 B WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/8/2017	1/17/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>											
NWTPH-Diesel (mg/L)	<b>0.14</b> J	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 UJ	<b>0.10</b>	0.10 UJ
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.74</b> J	<b>0.53</b> J	<b>0.27</b> J	<b>0.82</b> J	<b>1.3</b> J	<b>0.91</b>	<b>0.54</b>	<b>0.42</b>	<b>0.35</b> J	<b>0.66</b>	<b>0.28</b> J
<b>Bacteria</b>											
Coliform, Fecal (CFU/100mL)	<b>16,000</b> E	<b>5,400</b>	<b>5,400</b>	<b>790</b>	<b>790</b>	<b>230</b>	<b>490</b>	<b>490</b>	<b>5,400</b>	<b>2,400</b>	<b>790</b>
<b>BTEX</b>											
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 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-5.1  
Stormwater Analytical Data for Outfall 243 WY2017 - Composite Samples**

	Storm 1 10/7/2016	Storm 2 11/5/2016	Storm 3 11/15/2016	Storm 4 Rejected 12/4/2016	Storm 5 12/19/2016	Storm 6 2/4/2017	Storm 7 3/18/2017
<b>Conventionals</b>							
Anionic Surfactants - MBAS (mg/L)	86.2	32.8	39.9	30.6	–	94.7 J	45.2 J
BOD (mg/L)	2.3	4.7	3.4	2.0 U	–	3.9	2.2
Chloride (mg/L)	25400	741	885	1620	–	3980	1140
Conductivity (uS/cm)	13300	2730	3150	5780	8200	7170	3900
Hardness (mg CaCO3/L)	1250	284	292	547	660	705	380
pH (pH Units)	7.1	7.1	7.2	7.2	7.3	7.0	7.1
Total Suspended Solids (mg/L)	26.2	289	156	37.8	171	29.0	14.8
Turbidity (NTU)	0.21 J	140	53.0	36.1	–	38.6 J	22.4 J
<b>Nutrients</b>							
Nitrate+Nitrite as N (mg/L)	0.799	0.359	0.202	0.134	–	0.302	0.169
Phosphate, Ortho (mg/L)	0.040	0.033	0.030	0.043	–	0.018 J	0.035 J
Phosphorus, Total (mg/L)	0.202	1.36	1.28	0.403	–	0.107	0.096
Total Nitrogen (mg/L)	0.88	0.46	0.51	0.41	–	0.70	0.50
<b>Metals</b>							
Cadmium (ug/L)	0.063 J	1.25	0.476 J	0.232 UJ	0.457 J	0.189 U	0.143 J
Cadmium, Dissolved (ug/L)	0.064 J	0.101 J	0.118 J	0.105 UJ	0.249 UJ	0.137 U	0.083 J
Copper (ug/L)	3.22	110	39.3	25.9	67.5	24.6	14.3
Copper, Dissolved (ug/L)	2.28	3.14	3.04	2.17	3.39	6.88	4.97
Lead (ug/L)	0.116 J	115	46.2	19.7	27.6	6.05	3.70
Lead, Dissolved (ug/L)	0.021 J	0.086 J	0.196	0.026 UJ	0.005 U	0.031 U	0.102
Mercury (ng/L)	3.2 J	153	41.0	12.5	20.8	5.5	6.0 J
Mercury, Dissolved (ng/L)	1.8 U	1.9 J	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U
Zinc (ug/L)	12.3	233	93.9	52.7	117	73.7	44.1
Zinc, Dissolved (ug/L)	10.9	16.4	16.7	15.3	34.1	32.1	23.5
<b>Insecticides</b>							
Carbaryl (ug/L)	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.017 U	0.006 U	0.006 UJ	0.017 U	0.018 UJ	0.006 UJ	0.006 U
<b>LPAHs</b>							
2-Methylnaphthalene (ug/L)	0.008 U	0.005 UJ	0.013 J	0.008 UJ	0.009 UJ	0.005 UJ	0.005 UJ
Acenaphthene (ug/L)	0.012	0.004 UJ	0.008 J	0.011 J	0.012 J	0.009 J	0.011 J
Acenaphthylene (ug/L)	0.009 J	0.008 J	0.022 J	0.011 J	0.009 J	0.007 J	0.010 J
Anthracene (ug/L)	0.019	0.046 J	0.077 J	0.040 J	0.022 J	0.027 J	0.033 J
Fluorene (ug/L)	0.007 J	0.006 J	0.015 J	0.008 J	0.014 J	0.013 J	0.009 J
Naphthalene (ug/L)	0.016 J	0.010 UJ	0.033 UJ	0.011 J	0.018 J	0.008 UJ	0.011 J
Phenanthrene (ug/L)	0.019	0.014 J	0.074 J	0.037 J	0.064 J	0.027 J	0.013 J
Total LPAHs	0.082	0.081	0.2125	0.118	0.139	0.087	0.087
<b>HPAHs</b>							
Benzo(a)anthracene (ug/L)	0.010 J	0.021	0.615 J	0.047 J	0.033 J	0.018 J	0.013
Benzo(a)pyrene (ug/L)	0.013	0.031	0.654 J	0.065 J	0.043 J	0.022 J	0.015
Benzo(b,k)fluoranthene (ug/L)	0.041	0.058	1.43 J	0.190 J	0.107 J	0.048 J	0.029
Benzo(g,h,i)perylene (ug/L)	0.012	0.031	0.503 J	0.053 J	0.035 J	0.037 J	0.031
Chrysene (ug/L)	0.025	0.030	0.788 J	0.101 J	0.071 J	0.042 J	0.022
Dibenz(a,h)anthracene (ug/L)	0.004 J	0.009 J	0.684 J	0.013	0.006 J	0.006 J	0.007 J
Fluoranthene (ug/L)	0.033	0.038	0.248 J	0.097	0.093 J	0.069 J	0.032
Indeno(1,2,3-c,d)pyrene (ug/L)	0.011	0.037	0.620 J	0.047	0.026 J	0.023 J	0.021
Pyrene (ug/L)	0.036	0.039	0.293 J	0.121 J	0.121 J	0.093 J	0.048
Total HPAHs	0.185	0.294	5.835	0.734	0.535	0.358	0.218
TOTAL PAHs	0.267	0.375	6.0475	0.852	0.674	0.445	0.305
<b>Phthalates</b>							
Bis(2-ethylhexyl) phthalate (ug/L)	0.767 J	1.38	3.95	1.68	1.42 J	2.69 J	2.16
Butyl benzyl phthalate (ug/L)	0.603 U	0.185 U	1.64 J	0.603 U	0.635 UJ	0.187 U	0.187 U
Diethyl phthalate (ug/L)	0.520 U	0.157 UJ	0.156 UJ	0.520 U	0.548 UJ	0.159 UJ	0.166 J
Dimethyl phthalate (ug/L)	0.455 U	0.077 UJ	0.077 UJ	0.455 U	0.480 UJ	0.078 UJ	0.078 UJ
Di-n-butyl phthalate (ug/L)	0.508 U	0.262 J	0.357 J	0.508 U	0.535 UJ	0.293 J	0.251 J
Di-n-octyl phthalate (ug/L)	0.343 U	0.223 J	1.28 J	0.343 U	0.361 UJ	0.448 J	0.466 J
Total Phthalates	0.767	1.865	7.227	1.68	1.42	3.431	3.043
<b>Herbicides</b>							
2,4-D (ug/L)	0.19	0.017 U	0.017 UJ	0.029 J	–	0.054 J	0.026 J
Dichlobenil (ug/L)	0.020 U	0.007 UJ	0.008 J	0.020 U	0.021 UJ	0.016 J	0.025 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-5.2  
Stormwater Analytical Data for Outfall 243 WY2017 - Grab Samples**

	10/13/2016	1/17/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>								
NWTPH-Diesel (mg/L)	0.10 UJ	0.10 UJ	0.1 U	0.10 UJ	0.10 U	<b>0.18</b>	0.10 U	0.10 UJ
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.34</b> J	<b>0.83</b> J	<b>0.48</b>	<b>0.29</b> J	<b>0.33</b>	<b>0.57</b>	0.20 U	<b>0.56</b> J
<b>Bacteria</b>								
Coliform, Fecal (CFU/100mL)	<b>16,000</b> E	<b>790</b>	<b>330</b>	<b>2,400</b>	<b>310</b>	<b>5,400</b>	<b>9,200</b>	<b>&gt;16,000</b>
<b>BTEX</b>								
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	<b>0.4</b> J	0.4 U	0.4 U	0.4 U	0.4 U	<b>0.6</b> J	0.4 U	0.4 U
o-Xylene (ug/L)	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> 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-6.1  
Stormwater Analytical Data for Outfall 245 WY2017 - Composite Samples**

	Storm 1 10/7/2016	Storm 2 10/20/2016	Storm 3 11/5/2016	Storm 4 11/15/2016	Storm 5 12/4/2016	Storm 6 12/19/2016	Storm 7 1/8/2017	Storm 8 1/18/2017	Storm 9 2/3/2017	Storm 10 3/18/2017	Storm 11 4/5/2017	Storm 12 5/5/2017	Storm 13 6/15/2017
<b>Conventionals</b>													
Anionic Surfactants - MBAS (mg/L)	-	53.8	54.1	37.9	26.5	-	26.0 J	42.9	65.1 J	36.3	98.0 J	71.1	124
BOD (mg/L)	-	2.6	2.1	2.0	2.0 U	-	4.3	3.9	4.6	2.2	3.8	5.4	5.7
Chloride (mg/L)	-	30.0	26.6	122	32.0	-	51.8	79.9	114	16.7 J	85.1	520	121
Conductivity (uS/cm)	513	243	98.1	475	179	440	232	579	505	104	425	1810	526
Hardness (mg CaCO3/L)	66.9	28.6	21.2	58.0	35.1	66.8	37.9	45.8	66.8	27.8	75.6	195	71.5
pH (pH Units)	7.0	7.1	6.8	6.9	7.9	7.3	7.4	7.1	7.0	6.9	7.2	6.8	7.0
Total Suspended Solids (mg/L)	95.3	27.2	12.4	29.8	18.6	34.8	18.8	50.6	62.8	24.0	45.6	296	49.6
Turbidity (NTU)	-	28.0	11.6	24.4	38.5	-	21.7	54.0	97.1 J	21.1	34.9 J	95.3	48.4
<b>Nutrients</b>													
Nitrate+Nitrite as N (mg/L)	-	0.107	0.094	0.079	0.102	0.297	0.154	0.121	0.216	0.089	0.217	0.210 J	0.271
Phosphate, Ortho (mg/L)	-	0.027	0.044 J	0.013	0.028	0.147	0.038	0.067	0.039 J	0.019	0.033 J	0.689	0.069
Phosphorus, Total (mg/L)	-	0.072	0.338	0.071	0.118	-	0.121	0.279	0.246	0.067	0.197	1.51	0.119
Total Nitrogen (mg/L)	-	0.37	0.48	0.27	0.43	1.11	0.70	0.68	1.02	0.39	1.06	0.71	1.97
<b>Metals</b>													
Cadmium (ug/L)	0.491 J	0.107 U	0.127 U	0.137 U	0.118 U	0.718	0.147 J	0.464 J	0.353 J	0.117 J	0.157 J	1.56	0.217 J
Cadmium, Dissolved (ug/L)	0.091 J	0.036 U	0.075 J	0.068 J	0.056 U	0.426 J	0.069 J	0.179 J	0.122 U	0.051 J	0.059 J	0.964	0.050 U
Copper (ug/L)	23.8	7.47	4.45	7.47	6.23	12.3	5.62	15.7	17.1	7.89	12.6	42.6	17.5
Copper, Dissolved (ug/L)	5.26	1.68	2.15	1.07	1.44	4.09	2.42	2.02	4.08	2.07	3.71	6.20	5.45
Lead (ug/L)	15.6	4.15	1.57	3.81	3.48	4.54	3.15	9.83	9.70	5.67	9.41	33.8	8.34
Lead, Dissolved (ug/L)	0.194	0.115 U	0.076 J	0.053 J	0.086 U	0.047 U	0.200	0.078 J	0.124 U	0.324	0.403	0.033 U	0.296
Mercury (ng/L)	8.2	4.4 J	2.2 J	2.5 J	1.6 J	2.4 J	1.6 J	5.7	4.7 J	5.5 J	10.5 J	4.5 J	7.5 J
Mercury, Dissolved (ng/L)	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 U	9.0 U	9.0 U
Zinc (ug/L)	184	57.7	31.2	52.2	46.9	117	46.4	99.3	101	43.7	71.6	230	99.1
Zinc, Dissolved (ug/L)	32.8	24.0	22.0	23.9	22.6	64.9	25.8	28.2	34.3	21.0	26.8	81.8	14.9
<b>Insecticides</b>													
Carbaryl (ug/L)	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.031 J	0.017 U	0.006 U	0.006 U	0.017 U	0.018 U	0.006 U	0.006 U	0.006 U	0.006 U	0.017 U	0.060 U	0.060 U
<b>LPAHs</b>													
2-Methylnaphthalene (ug/L)	0.008 U	0.011 J	0.005 U	0.012 J	0.008 U	0.018	0.016	0.023	0.039 J	0.013 J	0.009 J	0.011 J	0.006 J
Acenaphthene (ug/L)	0.006 U	0.009 J	0.005 J	0.005 J	0.006 U	0.008 J	0.011	0.037	0.082 J	0.030 J	0.012	0.016 J	0.013
Acenaphthylene (ug/L)	0.006 U	0.006 U	0.004 J	0.006 J	0.006 U	0.010 J	0.009 J	0.012	0.011 J	0.008 J	0.006 U	0.008 J	0.003 U
Anthracene (ug/L)	0.008 J	0.007 J	0.006 J	0.007 J	0.005 U	0.008 J	0.006 J	0.019	0.013 J	0.013 J	0.013 J	0.013 J	0.006 U
Fluorene (ug/L)	0.007 U	0.007 J	0.006 J	0.009 J	0.006 U	0.015	0.012	0.036	0.072 J	0.021 J	0.009 J	0.013 J	0.007 J
Naphthalene (ug/L)	0.017 J	0.025 J	0.014 U	0.049 U	0.008 U	0.037	0.036 U	0.061 U	0.072 U	0.029 J	0.031	0.031 J	0.017 J
Phenanthrene (ug/L)	0.031	0.033	0.017 J	0.034 J	0.018 J	0.081	0.045	0.105	0.098	0.046 J	0.034	0.057 J	0.033
Total LPAHs	0.0655	0.084	0.045	0.0855	0.0335	0.159	0.101	0.2395	0.312	0.147	0.102	0.138	0.0745
<b>HPAHs</b>													
Benzo(a)anthracene (ug/L)	0.013	0.008 J	0.005 J	0.012 J	0.009 J	0.019	0.008 J	0.024	0.015 J	0.012	0.009 J	0.019 J	0.006 J
Benzo(a)pyrene (ug/L)	0.018	0.011	0.007 U	0.016 J	0.009 J	0.021	0.009 J	0.023	0.017 J	0.015	0.016	0.024 J	0.011
Benzo(b,k)fluoranthene (ug/L)	0.055	0.030	0.012 U	0.028 J	0.024 J	0.062	0.020 J	0.045	0.037 J	0.031	0.035	0.057 J	0.028
Benzo(g,h,i)perylene (ug/L)	0.026	0.013	0.008 J	0.024 J	0.011 J	0.022	0.015	0.030	0.022 J	0.031	0.019 J	0.026 J	0.009 J
Chrysene (ug/L)	0.025	0.014	0.005 U	0.024 J	0.023 J	0.032	0.009 J	0.044	0.039 J	0.030	0.018	0.060 J	0.015
Dibenz(a,h)anthracene (ug/L)	0.003 U	0.003 U	0.004 U	0.005 J	0.003 U	0.003 U	0.005 J	0.007 J	0.005 J	0.008 J	0.004 J	0.006 J	0.004 U
Fluoranthene (ug/L)	0.063	0.031	0.015	0.037 J	0.027 J	0.076	0.028	0.093	0.067 J	0.045	0.038	0.072 J	0.033
Indeno(1,2,3-c,d)pyrene (ug/L)	0.012	0.007 J	0.006 J	0.015 J	0.006 J	0.012	0.010 J	0.020	0.015 J	0.021	0.012 J	0.019 J	0.006 J
Pyrene (ug/L)	0.077	0.040	0.018	0.047 J	0.042 J	0.108	0.036	0.098	0.082 J	0.051	0.051	0.087 J	0.039
Total HPAHs	0.2905	0.1555	0.066	0.208	0.1525	0.3535	0.14	0.384	0.299	0.244	0.202	0.37	0.149
TOTAL PAHs	0.356	0.2395	0.111	0.2935	0.186	0.5125	0.241	0.6235	0.611	0.391	0.304	0.508	0.2235
<b>Phthalates</b>													
Bis(2-ethylhexyl) phthalate (ug/L)	3.39	1.22	1.90	2.22	1.51	3.02	1.49	1.63	1.48 J	1.48	1.08	1.90 J	1.34
Butyl benzyl phthalate (ug/L)	0.609 U	0.597 U	0.187 U	0.196 J	0.603 U	0.616 U	0.187 U	0.227 J	0.313 J	0.187 U	0.588 U	0.430 U	0.430 U
Diethyl phthalate (ug/L)	0.526 U	0.515 U	0.270 J	0.217 J	0.520 U	0.531 U	0.301 J	0.157 U	0.215 J	0.214 J	0.507 U	0.280 U	0.280 U
Dimethyl phthalate (ug/L)	0.460 U	0.451 U	0.078 U	0.077 U	0.455 U	0.465 U	0.078 U	0.077 U	0.079 J	0.078 U	0.444 U	0.270 U	0.270 U
Di-n-butyl phthalate (ug/L)	0.513 U	0.503 U	0.363 J	0.243 J	0.508 U	0.519 U	0.419 J	0.235 J	0.309 J	0.253 J	0.496 U	0.290 U	0.290 U
Di-n-octyl phthalate (ug/L)	0.346 U	0.339 U	0.218 U	0.214 U	0.343 U	0.350 U	0.218 U	0.215 U	0.215 U	0.218 U	0.334 U	0.350 U	0.350 U
Total Phthalates	3.39	1.22	2.533	2.876	1.51	3.02	2.21	2.092	2.396	1.947	1.08	1.9	1.34
<b>Herbicides</b>													
2,4-D (ug/L)	-	0.017 U	0.017 U	0.017 U	0.022 J	0.043 J	0.017 U	0.018 U	0.018 U	0.048 J	0.017 U	0.14	0.061 J
Dichlobenil (ug/L)	0.020 U	0.020 U	0.009 J	0.007 U	0.020 U	0.021 U	0.007 U	0.008 J	0.050 J	0.032 J	0.027 J	0.040 U	0.040 U

**Bold** - 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-6.2  
Stormwater Analytical Data for Outfall 245 WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/17/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>										
NWTPH-Diesel (mg/L)	<b>0.13</b> J	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	<b>0.11</b>	0.10 U
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.68</b> J	<b>0.47</b> J	<b>0.29</b> J	<b>0.84</b> J	<b>0.55</b>	<b>0.26</b> J	<b>0.48</b>	<b>0.32</b>	<b>0.46</b>	<b>0.68</b>
<b>Bacteria</b>										
Coliform, Fecal (CFU/100mL)	<b>16,000</b> E	<b>16,000</b> E	<b>16,000</b> E	<b>230</b>	<b>130</b>	<b>790</b>	<b>790</b>	<b>790</b>	<b>5,400</b>	<b>9,200</b>
<b>BTEX</b>										
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	<b>0.4</b> J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> 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-7.1  
Stormwater Analytical Data for Outfall 254 WY2017 - Composite Samples**

	Storm 1 10/7/2016	Storm 2 11/5/2016	Storm 3 11/15/2016	Storm 4 12/4/2016	Storm 5 12/19/2016	Storm 6 1/8/2017	Storm 7 2/4/2017	Storm 8 3/18/2017	Storm 9 5/4/2017	Storm 10 6/8/2017
<b>Conventionals</b>										
Anionic Surfactants - MBAS (mg/L)	105	54.5	51.6	41.0	–	38.2 J	107 J	57.4 J	169	83.0
BOD (mg/L)	2.4	2.0	2.0 U	2.0 U	–	2.7	2.7	2.5	–	69.0
Chloride (mg/L)	3420	760	625	1520	–	5490	4270	493	1260	2160
Conductivity (uS/cm)	10800	2840	2240	5150	7550	16400	12700	1790	4240	7520
Hardness (mg CaCO3/L)	1020	266	211	484	690	1650	1370	161	405	792
pH (pH Units)	7.1	7.0	7.0	7.0	7.2	7.3	7.6	7.1	7.5	6.8
Total Suspended Solids (mg/L)	31.6	40.0	47.8	33.8	44.9	24.6	88.3	37.6	346	65.6
Turbidity (NTU)	0.46 J	58.6	47.4	21.0	–	21.2	138 J	51.3 J	216	63.8
<b>Nutrients</b>										
Nitrate+Nitrite as N (mg/L)	0.157	0.073	0.070	0.083	0.285	0.163	0.143	0.096	0.219 J	0.149
Phosphate, Ortho (mg/L)	0.030	0.013	0.015	0.027	0.039	0.042	0.034 J	0.007 J	0.018	0.019
Phosphorus, Total (mg/L)	0.120	0.082	0.094	0.115	0.632	0.110	0.162	0.086	1.09	0.161
Total Nitrogen (mg/L)	0.54	0.24	0.24	0.37	1.08	0.53	0.67	0.44	0.85	1.27
<b>Metals</b>										
Cadmium (ug/L)	0.300 UJ	0.133 UJ	0.154 UJ	0.158 UJ	0.301 J	0.273 J	0.273 U	0.115 J	0.543	0.252 J
Cadmium, Dissolved (ug/L)	0.161 J	0.088 J	0.040 J	0.084 UJ	0.045 UJ	0.183 J	0.157 U	0.077 J	0.052 J	0.181 J
Copper (ug/L)	19.3	9.55	8.99	8.92	13.9	9.38	19.5	9.76	56.3	22.9
Copper, Dissolved (ug/L)	2.23	1.94	0.909	1.06	1.34	2.69	1.89	2.38	3.35	10.5
Lead (ug/L)	5.72	4.19	5.12	5.10	6.58	4.02	9.52	4.34	33.8	7.75
Lead, Dissolved (ug/L)	0.169	0.087 J	0.112	0.050 UJ	0.042 UJ	0.315	0.024 U	0.166	0.244	1.03
Mercury (ng/L)	6.7	4.1 J	3.6 J	4.0 J	7.0 J	3.5 J	7.3	8.0 J	7.0 J	25.0
Mercury, Dissolved (ng/L)	1.8 U	1.9 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	9.0 U	9.0 UJ	9.0 U
Zinc (ug/L)	47.9	44.7	49.9	52.5	81.7	51.9	77.3	48.3	213	75.2
Zinc, Dissolved (ug/L)	20.1	22.4	20.3	30.0	33.8	32.0	27.0	25.5	16.4	38.1
<b>Insecticides</b>										
Carbaryl (ug/L)	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorpyrifos (ug/L)	0.022 J	0.006 U	0.006 UJ	0.017 U	0.017 U	0.006 U	0.006 UJ	0.006 U	0.059 UJ	0.060 U
<b>LPAHs</b>										
2-Methylnaphthalene (ug/L)	0.008 U	0.007 J	0.007 J	0.008 UJ	0.295	0.012	0.011 J	0.011 J	0.015 J	0.011
Acenaphthene (ug/L)	0.006 U	0.004 UJ	0.004 UJ	0.006 UJ	0.018	0.006 J	0.009 J	0.009 J	0.005 UJ	0.005 U
Acenaphthylene (ug/L)	0.010 J	0.006 J	0.007 J	0.006 UJ	0.008 J	0.007 J	0.007 J	0.007 J	0.011 J	0.031
Anthracene (ug/L)	0.008 J	0.007 J	0.009 J	0.006 J	0.008 J	0.007 J	0.007 J	0.011 J	0.014 J	0.019
Fluorene (ug/L)	0.006 U	0.004 UJ	0.007 J	0.006 UJ	0.029	0.008 J	0.009 J	0.010 J	0.015 J	0.005 U
Naphthalene (ug/L)	0.013 J	0.019 UJ	0.020 UJ	0.008 UJ	0.093	0.019 UJ	0.024 UJ	0.024 J	0.035 J	0.021
Phenanthrene (ug/L)	0.020	0.018 J	0.031 J	0.018 J	0.092	0.039	0.044 J	0.027 J	0.091 J	0.030
Total LPAHs	0.057	0.0445	0.066	0.037	0.248	0.0765	0.088	0.088	0.1685	0.106
<b>HPAHs</b>										
Benzo(a)anthracene (ug/L)	0.008 J	0.015	0.027 J	0.014 J	0.011	0.012	0.025 J	0.015	0.042 J	0.010 J
Benzo(a)pyrene (ug/L)	0.013	0.025	0.041 J	0.020 J	0.014	0.015	0.037 J	0.024	0.051 J	0.018 J
Benzo(b,k)fluoranthene (ug/L)	0.035	0.039	0.069 J	0.049 J	0.033	0.029	0.057 J	0.035	0.123 J	0.042 J
Benzo(g,h,i)perylene (ug/L)	0.012	0.033	0.037 J	0.012 J	0.011	0.015	0.031 J	0.035	0.034 J	0.012 J
Chrysene (ug/L)	0.013	0.018	0.028 J	0.041 J	0.015	0.027	0.028 J	0.019	0.103 J	0.018
Dibenz(a,h)anthracene (ug/L)	0.003 U	0.011	0.010 J	0.004 J	0.004 J	0.005 J	0.011 J	0.011	0.010 J	0.004 UJ
Fluoranthene (ug/L)	0.032	0.033	0.060 J	0.041	0.034	0.042	0.060 J	0.032	0.157 J	0.034
Indeno(1,2,3-c,d)pyrene (ug/L)	0.009 J	0.021	0.024 J	0.008 J	0.008 J	0.012	0.019 J	0.019	0.030 J	0.007 J
Pyrene (ug/L)	0.036	0.042	0.075 J	0.055 J	0.068	0.050	0.079 J	0.047	0.162 J	0.070
Total HPAHs	0.1595	0.237	0.371	0.244	0.198	0.207	0.347	0.237	0.712	0.213
TOTAL PAHs	0.2165	0.2815	0.437	0.281	0.446	0.2835	0.435	0.325	0.8805	0.319
<b>Phthalates</b>										
Bis(2-ethylhexyl) phthalate (ug/L)	1.14	2.37	3.46	1.51	1.26	1.59	1.36 J	1.70	7.61 J	1.34
Butyl benzyl phthalate (ug/L)	0.597 U	0.185 U	0.185 U	0.603 U	0.603 U	0.185 U	0.291 J	0.187 U	0.422 UJ	0.430 U
Diethyl phthalate (ug/L)	0.515 U	0.232 J	0.157 UJ	0.520 U	0.520 U	0.157 U	0.159 UJ	0.159 U	0.275 UJ	0.280 U
Dimethyl phthalate (ug/L)	0.451 U	0.077 UJ	0.077 UJ	0.455 U	0.455 U	0.077 U	0.078 UJ	0.092 J	0.265 UJ	0.270 U
Di-n-butyl phthalate (ug/L)	0.503 U	0.328 J	0.320 J	0.508 U	0.508 U	0.354 J	0.378 J	0.341 J	0.478 J	0.421 J
Di-n-octyl phthalate (ug/L)	0.427 J	0.215 U	0.258 J	0.343 U	0.343 U	0.215 U	0.218 UJ	0.218 U	0.343 UJ	0.350 UJ
Total Phthalates	1.567	2.93	4.038	1.51	1.26	1.944	2.029	2.133	8.088	1.761
<b>Herbicides</b>										
2,4-D (ug/L)	0.11	0.075 J	0.017 UJ	0.027 J	0.15	0.017 U	0.026 J	0.018 U	–	0.17
Dichlobenil (ug/L)	0.020 U	0.009 J	0.007 UJ	0.020 U	0.020 U	0.007 U	0.263 J	0.045 J	0.039 UJ	0.040 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 Analytical Data for Outfall 254 WY2017 - Grab Samples**

	10/4/2016	10/13/2016	11/5/2016	1/7/2017	2/3/2017	2/15/2017	3/13/2017	4/5/2017	5/11/2017	6/15/2017
<b>TPH</b>										
NWTPH-Diesel (mg/L)	<b>0.10</b> J	0.10 UJ	0.10 UJ	<b>0.14</b> J	0.10 UJ	0.10 UJ	<b>0.11</b>	<b>0.10</b> J	<b>0.13</b> J	<b>0.10</b> J
NWTPH-Gasoline (ug/L)	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U	50.0 U
NWTPH-Heavy Oil (mg/L)	<b>0.34</b> J	<b>0.37</b> J	<b>0.49</b> J	<b>1.0</b> J	<b>0.55</b> J	<b>0.25</b> J	<b>0.66</b>	<b>0.51</b> J	<b>0.58</b> J	<b>1.1</b> J
<b>Bacteria</b>										
Coliform, Fecal (CFU/100mL)	<b>16000</b> E	<b>1700</b>	<b>3500</b>	<b>1100</b>	<b>490</b>	<b>2400</b>	<b>5400</b>	<b>16000</b> E	<b>5400</b>	<b>&gt;16000</b>
<b>BTEX</b>										
Benzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylene (ug/L)	0.4 U	0.4 U	0.4 U	0.4 U	<b>0.4</b> J	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
o-Xylene (ug/L)	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene (ug/L)	<b>0.2</b> J	0.2 U	0.2 U	0.2 U	0.2 U	<b>0.2</b> J	<b>0.2</b> J	0.2 U	<b>0.2</b> J	<b>0.2</b> 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-8  
Sediment Trap Analytical Data WY2017

Outfall ID# Date Collected	OF230						OF235	OF237A						OF237B				OF243	OF245		OF248			
	FD16	FD18	FD18-B	FD3-A	FD3-B	FD3-New	FD6	FD10	FD10-B	FD10-C	FD13	FD13-B	FD13-B New	FD2	FD2-A	FD1	FD31	FD34	FD35	FD23	FD21	MH-390	FD22	
<b>Conventionals</b>																								
Particle/Grain Size, Clay (%)	--	--	--	--	--	--	2.6	0.9	--	--	--	1.8	--	0.8	0.9	--	1.2	--	--	--	3.0	2.0	--	--
Particle/Grain Size, Gravel (%)	--	--	--	--	--	--	0.2	0.0	--	--	--	2.0	--	1.9	0.0	--	0.4	--	--	--	0.7	2.4	--	--
Particle/Grain Size, Sand (%)	--	--	--	--	--	--	73.2	82.9	--	--	--	71.4	--	73.9	78.5	--	81.3	--	--	--	38.7	86.9	--	--
Particle/Grain Size, Silt (%)	--	--	--	--	--	--	23.9	16.4	--	--	--	24.8	--	23.3	20.7	--	17.0	--	--	--	57.7	8.9	--	--
Total Organic Carbon (mg/Kg)	55000	101000	52600	99600	52900	62600	75500	50900	24500	121000	--	136000	114000	77600	89000	20500	61100	77500	88300	72000	105000	36700	118000	--
Total Solids (%)	29.1	38.6	45.9	23.4	54.8	54.2	56.5	69.8	67.4	46.8	12.2	43.3	28.3	48.6	46.4	74.2	64.1	57.7	50.7	26.2	58.5	60.4	29.7	--
Total Volatile Solids (%)	--	--	--	--	--	11.3	12.7	--	--	--	--	--	--	18.7	--	3.1	--	--	--	17.0	--	13.1	--	--
<b>Nutrients</b>																								
Phosphorus, Total (mg/Kg)	--	--	--	--	--	1560	1180	--	--	--	--	--	--	1880	--	456	--	--	--	10300	--	989	--	--
<b>Metals</b>																								
Cadmium (mg/Kg dry)	--	--	--	--	--	0.448 J	0.593	--	--	--	--	--	--	0.714	--	0.649	--	--	--	2.47	--	1.77	--	--
Copper (mg/Kg dry)	--	--	--	--	--	87.0	120	--	--	--	--	--	--	100	--	63.5	--	--	--	224	--	93.3	--	--
Lead (mg/Kg dry)	--	126	171	364	--	73.3	155	56.8	74.8	169	--	--	--	103	116	42.7	98.2	--	--	343	177	51.3	236	--
Mercury (mg/Kg dry)	--	0.108	0.0971	0.0927	--	0.0601	0.224	0.0362	0.0240	0.189	--	0.0715	0.0486	0.0661	0.101	0.0467	--	0.0772	--	0.257	0.0947	0.0636	0.130	--
Zinc (mg/Kg dry)	--	445	404	885	--	309	466	325	--	766	--	--	526	356	473	585	186	229	--	647	1120	462	3380	--
<b>PAHs</b>																								
2-Methylnaphthalene (ug/Kg)	39	72	63	105	24	105	65	41	12 J	107	44 J	66	86	83	64	7 U	41	--	--	88	156	26	375	--
Acenaphthene (ug/Kg)	22 J	61	56	185	22	62	53	98	51	246	68 J	231	1020	87	38	7 U	185	--	--	50	123	14 J	45	--
Acenaphthylene (ug/Kg)	18 J	23	52	68	10 J	52	20	45	16 J	127	37 J	72	166	26	35	9 U	76	--	--	59	71	11 J	47	--
Anthracene (ug/Kg)	56	173	106	725	44	115	184	424	180	593	212	1510	5370	319	121	12 J	559	--	--	152	113	21	99	--
Fluorene (ug/Kg)	38	106	121	328	31	79	74	179	90	365	116	439	1700	151	85	8 U	343	--	--	82	165	18 J	113	--
Naphthalene (ug/Kg)	70	94	70	205	50	75	96	61	24 J	173	104	166	163	97	108	8 U	67	--	--	132	253	55	839	--
Phenanthrene (ug/Kg)	509	1470	1300	5840	323	1010	966	3250	1950	5420	2520	10100	31800	2360	938	88	7210	--	--	597	988	145	827	--
Total LPAHs	713	1927	1705	7351	480	1393	1393	4057	2311	6924	3057	12518	40219	3040	1325	116	8440	--	--	1072	1713	264	1970	--
Benzo(a)anthracene (ug/Kg)	237	1320	575	6840	176	770	1050	3010	1720	3770	1990	10700	24500	1840	491	69	4410	--	--	578	307	64 J	231	--
Benzo(a)pyrene (ug/Kg)	255	1560	666	6310	246	1030	903	3130	2280	4750	2400	10400	23800	2230	546	103	4860	--	--	693	357	64	256	--
Benzo(b,k)fluoranthene (ug/Kg)	666	5030	1760	16800	517	2240	1790	9630	6350	14300	9230	32600	58500	5640	1460	361	12200	--	--	1780	1020	169	783	--
Benzo(g,h,i)perylene (ug/Kg)	182	930	367	2300	139	391	337	1440	931	2170	1840	6730	7850	1190	311	128	1850	--	--	428	448	57	310	--
Chrysene (ug/Kg)	448	2090	995	8580	297	1350	1660	4850	2700	6550	3820	15500	29600	2960	985	155	6080	--	--	988	823	106	722	--
Dibenz(a,h)anthracene (ug/Kg)	39 UJ	210	73 J	700	34 U	110 J	86 J	439	289	601	406	1730	2560	295	56 J	11 UJ	522	--	--	87 J	47 J	13 J	34 UJ	--
Fluoranthene (ug/Kg)	595	1850	1490	16200	382	1260	1410	7880	3360	11200	4390	26300	67600	3680	1260	172	14400	--	--	1120	1080	194	948	--
Indeno(1,2,3-c,d)pyrene (ug/Kg)	138	1030	387	2840	111	413	315	1830	1230	2680	2140	8310	10600	1350	276	129	2400	--	--	367	221	31	165 J	--
Pyrene (ug/Kg)	716	2760	1540	14200	770	1900	3480	6410	3670	9230	6580	20000	51300	4850	1730	234	11100	--	--	1780	1670	276	1280	--
Total HPAHs	3257	16780	7853	74770	2655	9464	11031	38619	22530	55251	32796	132270	276310	24035	7115	1356.5	57822	--	--	7821	5973	974	4712	--
Total PAHs	3970	18707	9558	82121	3135	10857	12424	42676	24841	62175	35853	144788	316529	27075	8440	1472.5	66262	--	--	8893	7686	1238	6682	--
<b>Phthalates</b>																								
bis(2-Ethylhexyl)phthalate (ug/Kg)	7540	8970	5110	25000	13500	6790	13300	7960	2400	17900	11500	8920 J	6720	12200	16700	3040	2310	--	--	10600	17500	5010	21800	--
Butyl benzyl phthalate (ug/Kg)	1710	260	220	627	210	378	1980	245	58	1060	642	690	565	913	893	355	150	--	--	1800	944	4120	2990	--
Diethylphthalate (ug/Kg)	33 UJ	49 UJ	30 UJ	39 UJ	26 UJ	38 UJ	28 UJ	26 UJ	28 UJ	34 UJ	113 UJ	34 UJ	31 UJ	38 UJ	34 UJ	13 UJ	32 UJ	--	--	21 UJ	35 UJ	15 UJ	52 UJ	--
Dimethyl phthalate (ug/Kg)	89	27	143	50	7 U	12 J	122	30	141	284	25 U	12 J	11 J	170	109	9 U	7 U	--	--	39	31	9 U	42	--
Di-n-butylphthalate (ug/Kg)	253	144	147	287	55	218	144 UJ	519	173	1910	154	124	100	279	707	20 UJ	50	--	--	141 UJ	88	1500	202	--
Di-n-Octyl phthalate (ug/Kg)	1940 UJ	1260 UJ	1030 UJ	3290 UJ	1200 UJ	1660 UJ	2470 UJ	450 UJ	462 UJ	1870 UJ	1920 UJ	3640 UJ	2000 UJ	1340 UJ	1980 UJ	131 UJ	274 UJ	--	--	1500 UJ	1460 UJ	451 UJ	902 UJ	--
Total Phthalates	9592	9401	5620	29254	13765	9058	17872	8754	2772	21154	12296	13386	7396	14902	18409	3395	2510	--	--	13939	18563	11081	25034	--
<b>PCBs</b>																								
Aroclor-1016 (ug/Kg)	2 U	2 U	--	5 U	--	2 U	2 U	2 U	2 U	2 U	--	--	--	2 U	2 U	2 U	--	--	2 U	2 U	--	2 U	--	--
Aroclor-1221 (ug/Kg)	2 U	2 U	--	5 UJ	--	2 UJ	2 U	2 U	2 U	2 U	--	--	--	2 U	2 UJ	2 U	--	--	2 U	2 U	2 UJ	--	2 U	--
Aroclor-1232 (ug/Kg)	2 U	2 U	--	5 UJ	--	2 UJ	2 U	2 U	2 U	2 U	--	--	--	2 U	2 UJ	2 U	--	--	2 U	2 U	2 UJ	--	2 U	--
Aroclor-1242 (ug/Kg)	2 U	1 U	--	3 U	--	2 U	1 U	1 U	2 U	1 U	--	--	--	1 U	1 U	1 U	--	--	1 U	1 U	1 U	--	1 U	--
Aroclor-1248 (ug/Kg)	2 U	1 U	--	3 U	--	2 U	1 U	1 U	2 U	1 U	--	--	--	1 U	1 U	1 U	--	--	1 U	1 U	1 U	--	1 U	--
Aroclor-1254 (ug/Kg)	2 U	400	--	590	--	360	1 U	1 U	2 U	1 U	--	--	--	1 U	99 J	1 U	--	--	1 U	1 U	1 U	--	1 U	--
Aroclor-1260 (ug/Kg)	2 U	1 U	--	3 U	--	2 U	1 U	1 U	2 U	1300	--	--	--	110	1 U	1 U	--	--	1 U	240	1 U	--	1 U	--
TOTAL PCBs	400						590	360	1300						110	99	240						--	
<b>TPH</b>																								
NWTPH-Diesel (mg/Kg)	170	210	99	120	76	260	160 J	100	110	480	--	380	200	160	210 J	19 U	76	160	230	400	210	96	1100	--
NWTPH-Heavy Oil (mg/Kg)	4700	5600	2900	4600	1900	6100	4400 J	2300	2700	4700	--	4700	5100	3900	5200	520	1800	3800	4800	3600	3600	1900	7300	--
<b>Insecticides</b>																								
Bifenthrin (ug/Kg)	--	--	--	--	--	23 J	13	--	--	--	--	--	--	35 J	--	2 J	--	--	--	15 J	--	0.6 U	--	--

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.

**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.