King County

Department of Natural Resources and Parks
Wastewater Treatment Division

April 28, 2017

West Point Treatment Plant Restoration Effluent Priority Pollutant Monitoring Data

This file contains a compilation of King County's influent and effluent water quality monitoring data that is being collected at the West Point wastewater treatment plant. This file contains data for the EPA-designated priority pollutant parameters (i.e., consisting primarily of trace metal and organic compounds). The priority pollutants are normally collected on a quarterly frequency in the West Point influent and effluent, as required by the National Pollutant Discharge Elimination System (NPDES) permit for West Point. While repairs are underway to repair the treatment processes that were damaged in the flooding on February 9, 2017, King County has collected additional influent and effluent data for priority pollutants more frequently. Additional influent and effluent samples are being collected on a bi-weekly frequency and updates to this data report will be prepared on a periodic basis.

The attached file contains an update of available effluent monitoring data collected on April 4, 2017.

The "Preliminary Draft Data" watermark refers to analyses completed and validated by King County; however, submittal of the final data to Ecology is pending completion of all sampling and analysis within the current monthly reporting period.

If you have questions about this document, contact Jeff Lafer at 206-477-6315, or email him at jeff.lafer@kingcounty.gov.

	West Point - Influent					West Point - Effluent					Sample Blank				
	Project: 421093-100 Locator: S4001 Descrip: WEST POINT STP/DIV Sample: L67435 Matrix: LB INFLUENT ColDate: 4/4/17 8:03 TimeSpan: 24 **WET Weight Basis**					Project: 421093-100 Locator: FESD01 Descrip: WP FINAL EFFLUENT Sample: L67435 Matrix: LC EFFLUENT ColDate: 4/4/17 8:22 TimeSpan: 24 **WET Weight Basis**					Project: 421093-100 Locator: ATMOSBLANK Descrip: ATMOSPHERE BLANK Sample: L67435 Matrix: LN BLANK WTR ColDate: 4/4/17 8:23 TimeSpan: 24 **WET Weight Basis**				
Parameters	**Value**	**Qual**	**MDL**	**RDL**	**Units**	**Value**	**Qual**	**MDL**	**RDL**	**Units**	**Value**	**Qual**	**MDL**	**RDL**	**Units**
MT EPA 200.8*SW846 6020A															
Antimony, Total, ICP-MS						0.45	<RDL	0.3	1	ug/L					
Arsenic, Total, ICP-MS						1.61		0.1	0.5	ug/L					
Barium, Total, ICP-MS						20.1		0.5	0.5	ug/L					
Beryllium, Total, ICP-MS							<MDL	0.1	0.5	ug/L					
Cadmium, Total, ICP-MS						0.13	<RDL	0.05	0.25	ug/L					
Chromium, Total, ICP-MS						1.83		0.2	1	ug/L					
Copper, Total, ICP-MS						26.5		0.2	2	ug/L					
Lead, Total, ICP-MS						2.95		0.1	0.5	ug/L					
Nickel, Total, ICP-MS						3.65		0.1	0.5	ug/L					
Selenium, Total, ICP-MS							<MDL	0.5	1	ug/L					
Silver, Total, ICP-MS						0.18	<RDL	0.04	0.2	ug/L					
Thallium, Total, ICP-MS							<MDL	0.1	0.2	ug/L					
Zinc, Total, ICP-MS						60.3		0.5	2.5	ug/L					
MT EPA 1631E															
Mercury, Total, CVAF	0.0179		0.001	0.003	ug/L	0.0042		0.001	0.003	ug/L		<MDL	0.0002	0.0005	ug/L
CV EPA 420.1															
Total Phenolics	0.051		0.04	0.04	mg/L	0.11		0.04	0.04	mg/L					
CV SM4500-CN-I,E															
Cyanide, Weak & Dissociable		<MDL	0.002	0.01	mg/L		<MDL	0.002	0.01	mg/L					
OR EPA 1664B															
Hem (oil, total)	12.2	B3	1.5	5.2	mg/L	3.4	<RDL,B	1.4	5.1	mg/L					
OR EPA 608/SW846 3520C*8082A															
Aroclor 1016		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1221		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1232		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1242		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1248		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1254		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Aroclor 1260		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
Total Aroclors		<MDL	0.05	0.2	ug/L		<MDL	0.05	0.2	ug/L					
OR EPA 624/SW846 5030C*8260C															
1,1,1-Trichloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,1,2,2-Tetrachloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,1,2-Trichloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,1,2-Trichloroethylene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,1-Dichloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,1-Dichloroethylene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,2-Dibromoethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,2-Dichlorobenzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,2-Dichloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,2-Dichloropropane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,3-Dichlorobenzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
1,4-Dichlorobenzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
2-Butanone (MEK)		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
2-Chloroethylvinyl ether		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
2-Hexanone		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
4-Methyl-2-Pentanone (MIBK)		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
Acetone	91.2		2.5	10	ug/L	53		2.5	10	ug/L					
Acrolein		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
Acrylonitrile		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Benzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Bromodichloromethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Bromoform		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Bromomethane		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
Carbon Disulfide		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Carbon Tetrachloride		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Chlorobenzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Chlorodibromomethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Chloroethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Chloroform	1.6	<RDL	1	2	ug/L	1.6	<RDL	1	2	ug/L					
Chloromethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Cis-1,3-Dichloropropene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Ethylbenzene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
M/P Xylenes		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Methylene Chloride		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
Methyl-t-butyl Ether (MTBE)		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
O-Xylene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Styrene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Tetrachloroethylene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Toluene		<MDL	1	2	ug/L	1.6	<RDL	1	2	ug/L					
Total Xylenes		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Trans-1,2-Dichloroethylene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Trans-1,3-Dichloropropene		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Trichlorofluoromethane		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
Vinyl Acetate		<MDL	5	10	ug/L		<MDL	5	10	ug/L					
Vinyl Chloride		<MDL	1	2	ug/L		<MDL	1	2	ug/L					
OR EPA 625/SW846 3520C*8270D															
1,2,4-Trichlorobenzene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
1,2-Diphenylhydrazine		<MDL	4.7	9.43	ug/L		<MDL	1.3	2.5	ug/L					
2,4,6-Trichlorophenol		<MDL	9.4	18.9	ug/L		<MDL	2.5	5	ug/L					
2,4-Dichlorophenol		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
2,4-Dimethylphenol		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
2,4-Dinitrophenol		<MDL	14	23.6	ug/L		<MDL	3.8	6.25	ug/L					
2,4-Dinitrotoluene		<MDL	2.4	9.43	ug/L		<MDL	0.63	2.5	ug/L					
2,6-Dinitrotoluene		<MDL	2.4	9.43	ug/L		<MDL	0.63	2.5	ug/L					
2-Chloronaphthalene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
2-Chlorophenol		<MDL	4.7	9.43	ug/L		<MDL	1.3	2.5	ug/L					
2-Methylnaphthalene		<MDL	3.8	7.08	ug/L		<MDL	1	1.88	ug/L					
2-Methylphenol		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
2-Nitrophenol		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
3,3'-Dichlorobenzidine		<MDL	9.43	9.43	ug/L		<MDL	2.5	2.5	ug/L					
3-,4-Methylphenol	25.9		2.4	4.72	ug/L	20.1		0.63	1.25	ug/L					
3-Methylcholanthrene		<MDL	9.4	37.7	ug/L		<MDL	2.5	10	ug/L					

PRELIMINARY DRAFT DATA

	West Point - Influent					West Point - Effluent					Sample Blank				
	Project: 421093-100 Locator: S4001 Descrip: WEST POINT STP/DIV Sample: L67435 Matrix: LB INFLUENT ColDate: 4/4/17 8:03 TimeSpan: 24 **WET Weight Basis**					Project: 421093-100 Locator: FESD01 Descrip: WP FINAL EFFLUENT Sample: L67435 Matrix: LC EFFLUENT ColDate: 4/4/17 8:22 TimeSpan: 24 **WET Weight Basis**					Project: 421093-100 Locator: ATMOSBLANK Descrip: ATMOSPHERE BLANK Sample: L67435 Matrix: LN BLANK WTR ColDate: 4/4/17 8:23 TimeSpan: 24 **WET Weight Basis**				
Parameters	**Value**	**Qual**	**MDL**	**RDL**	**Units**	**Value**	**Qual**	**MDL**	**RDL**	**Units**	**Value**	**Qual**	**MDL**	**RDL**	**Units**
4,6-Dinitro-O-Cresol		<MDL	9.4	23.6	ug/L		<MDL	2.5	6.25	ug/L					
4-Bromophenyl Phenyl Ether		<MDL	0.94	1.42	ug/L		<MDL	0.25	0.375	ug/L					
4-Chloro-3-Methylphenol		<MDL	4.7	9.43	ug/L		<MDL	1.3	2.5	ug/L					
4-Chlorophenyl Phenyl Ether		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
4-Nitrophenol		<MDL	9.4	23.6	ug/L		<MDL	2.5	6.25	ug/L					
Acenaphthene		<MDL	0.94	1.89	ug/L		<MDL	0.25	0.5	ug/L					
Acenaphthylene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Anthracene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Benzidine		<MDL	142	425	ug/L		<MDL,JG	37.5	113	ug/L					
Benzo(a)anthracene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Benzo(a)pyrene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Benzo(b,j,k)fluoranthene		<MDL	3.8	7.08	ug/L		<MDL	1	1.88	ug/L					
Benzo(g,h,i)perylene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Benzo(r,s,t)pentaphene		<MDL	12	47.2	ug/L		<MDL	3.1	12.5	ug/L					
Benzoic Acid	69.2		37.7	37.7	ug/L	54.5	JL	10	10	ug/L					
Benzyl Alcohol	44.2		2.4	4.72	ug/L	14.6		0.63	1.25	ug/L					
Benzyl Butyl Phthalate		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Bis(2-Chloroethoxy)Methane		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Bis(2-Chloroethyl)Ether		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Bis(2-Chloroisopropyl)Ether		<MDL	4.7	9.43	ug/L		<MDL	1.3	2.5	ug/L					
Bis(2-Ethylhexyl)Phthalate		<MDL	2.4	9.43	ug/L	0.64	<RDL	0.63	2.5	ug/L					
Carbazole		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Chrysene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Dibenzo(a,e)pyrene		<MDL	12	47.2	ug/L		<MDL	3.1	12.5	ug/L					
Dibenzo(a,h)acridine		<MDL	12	47.2	ug/L		<MDL	3.1	12.5	ug/L					
Dibenzo(a,h)anthracene		<MDL	3.8	7.08	ug/L		<MDL	1	1.88	ug/L					
Dibenzo(a,h)pyrene		<MDL	12	47.2	ug/L		<MDL	3.1	12.5	ug/L					
Dibenzo(a,j)acridine		<MDL	12	47.2	ug/L		<MDL	3.1	12.5	ug/L					
Dibenzofuran		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Diethyl Phthalate		<MDL	2.4	4.72	ug/L	0.72	<RDL	0.63	1.25	ug/L					
Dimethyl Phthalate		<MDL	0.94	1.42	ug/L		<MDL	0.25	0.375	ug/L					
Di-N-Butyl Phthalate		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Di-N-Octyl Phthalate		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Fluoranthene		<MDL	1.4	2.83	ug/L		<MDL	0.38	0.75	ug/L					
Fluorene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Hexachlorobenzene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Hexachlorobutadiene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Hexachlorocyclopentadiene		<MDL	9.4	23.6	ug/L		<MDL,JG	2.5	6.25	ug/L					
Hexachloroethane		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Indeno(1,2,3-Cd)Pyrene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Isophorone		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Naphthalene		<MDL	3.8	7.08	ug/L		<MDL	1	1.88	ug/L					
n-Decane		<MDL	1.4	2.83	ug/L		<MDL	0.38	0.75	ug/L					
Nitrobenzene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
N-Nitrosodimethylamine		<MDL	9.4	14.2	ug/L		<MDL	2.5	3.75	ug/L					
N-Nitrosodi-N-Propylamine		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
N-Nitrosodiphenylamine		<MDL	4.7	9.43	ug/L		<MDL	1.3	2.5	ug/L					
n-Octadecane		<MDL	1.4	2.83	ug/L		<MDL	0.38	0.75	ug/L					
Pentachlorophenol		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Perylene		<MDL	2.4	4.72	ug/L		<MDL	0.63	1.25	ug/L					
Phenanthrene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
Phenol	14	<RDL	9.4	14.2	ug/L	3.6	<RDL	2.5	3.75	ug/L					
Pyrene		<MDL	1.4	2.36	ug/L		<MDL	0.38	0.625	ug/L					
OR SW846 3520C*SW846 8081B															
4,4'-DDD		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
4,4'-DDE		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
4,4'-DDT		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Aldrin		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Alpha-BHC		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Alpha-Chlordane		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Beta-BHC		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Delta-BHC		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Dieldrin		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Endosulfan I		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Endosulfan II		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Endosulfan Sulfate		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Endrin		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Endrin Aldehyde		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Gamma-BHC (Lindane)		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Heptachlor		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Heptachlor Epoxide		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					
Methoxychlor		<MDL	0.05	0.1	ug/L		<MDL	0.05	0.1	ug/L					
Toxaphene		<MDL	0.2	1	ug/L		<MDL	0.2	1	ug/L					
trans-Chlordane		<MDL	0.01	0.02	ug/L		<MDL	0.01	0.02	ug/L					

PRELIMINARY DRAFT DATA