

APPENDIX G

SELECTION OF THE APPROACH FOR THE TERRESTRIAL ECOLOGICAL EVALUATION

MTCA regulations outline a series of criteria for determining whether a site is excluded from the TEE process, is subject to a simplified TEE, or subject to a site-specific TEE. The discussion below evaluates these possibilities and provides the justification for a site-specific approach.

G.1 Evaluation of Exclusion Criteria

An ecological evaluation is not required if a site meets any one of five exclusionary criteria defined by WAC 173-340-7491. A summary of each of the exclusionary criteria and an evaluation of their applicability to the LSP site is provided below. None of the site conditions qualify for an exclusion from the TEE. Consequently, the site was further evaluated to determine whether it qualified for a simplified TEE.

Evaluation of Exclusionary Criteria for Terrestrial Ecological Evaluation.

Criteria	Evaluation
1. Contaminated soil is located below the point of compliance (the biologically active zone, to a depth of 6 feet or a site-specific alternative depth appropriate to the site approved by the agency).	<i>The area of contamination does not qualify for an exclusion based on this criterion.</i>
2. All contaminated soil is or will be covered by buildings, pavement, or other physical barriers that will prevent plant or wildlife exposure.	<i>The plans for the site do not qualify for an exclusion based on this criterion.</i>
3. There is less than 1.5 acres of contiguous undeveloped land on or within 500 ft of any area of contamination.	<i>The size of the site does not qualify for an exclusion based on this criterion.</i>

Evaluation of Exclusionary Criteria for Terrestrial Ecological Evaluation (continued).

Criteria	Evaluation
4. There is less than ¼ acre of contiguous undeveloped land on or within 500 ft for sites contaminated with any of the following: PCBs, chlorinated dioxins/furans, DDX, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor or its epoxide, benzene, hexachlorobenzene, toxaphene, pentachlorophenol (PCP), and/or pentachlorobenzene.	<i>The amount of contiguous undeveloped land in the vicinity of the site does not qualify for an exclusion based on this criterion.</i>
5. Concentrations of hazardous substances do not exceed natural background levels from areas similar to the site that have not been influenced by site activities or other localized anthropogenic activities.	<i>The site does not qualify for an exclusion based on this criterion because:</i> <i>a. Existing data indicate TPH and dioxins/furans are present</i> <i>b. Ecology does not recognize natural background levels of these organic chemicals.</i> <i>c. It is unlikely these organic chemicals will be remediated to concentrations below non-detection levels, on which basis the site will not meet this criterion in the future, either.</i>

G.2 Applicability of Simplified Evaluation

The simplified TEE is intended for sites that do not have a substantial potential for posing a threat of significant adverse effects to terrestrial ecological receptors and may therefore be removed from further ecological consideration during the remedial investigation and cleanup process. The simplified TEE is structured with an intent to protect terrestrial wildlife at industrial or commercial sites (WAC 173-340-792(1) (b)).

A simplified ecological evaluation may be conducted in the absence of six limiting conditions or criteria. A summary of each of the criteria for a simplified TEE and an evaluation of their applicability to the LSP site is provided below. Where any one of these conditions is present, a simplified TEE is not appropriate and a site-specific TEE is required. LSP does not qualify for a simplified TEE because it is located in a natural area (Criterion 1) and it is larger than 10 acres (Criterion 5). In addition, use of the site by sensitive species (Criterion 3) cannot be ruled out based on current information.

Evaluation of Criteria for Conducting a Simplified Terrestrial Ecological Evaluation.

Criteria	Evaluation
1. The site is located on or directly adjacent to an area where management or land use plans will maintain or restore native or semi-native vegetation [-7491(2) (a) (i)].	Little Squalicum Park is a City Park with native vegetation and wildlife habitat.
2. The site is used by a threatened or endangered species [-7491(2) (a) (ii)]. For animals, "used" means that individuals of a species have been observed to live, feed or breed at the site. For plants, "used" means that a plant species grows at the site or has been found growing at the site.	The 2002 RI/FS for the site indicates that two federally listed species, the bald eagle (<i>Haliaeetus leucocephalus</i>) and the bull trout (<i>Salvelinus confluentus</i>) may be present in the site vicinity. The bald eagle occupies forested areas with large-diameter trees along major water bodies, where it feeds on fish, waterfowl, and carrion. The bald eagle prefers areas with limited human activity, so the site, as a public park, is probably not preferred habitat. It is possible that bald eagles could use the trees along the shoreline as perches while they look for food in Bellingham Bay; however, this use would not fit the definition of site "use." The bull trout occupies pools of large cold rivers in the northwest, and is most common in high mountainous areas; such habitat is not present at the site.

Evaluation of Criteria for Conducting a Simplified Terrestrial Ecological Evaluation (continued).

<u>Criteria</u>	<u>Evaluation</u>
3. Is the site used by a wildlife species classified by the Washington State Department of Fish and Wildlife as a "priority species" or "species of concern" under Title 77 RCW [-7491(2)(a)(ii)]?	The 2002 RI/FS for the Oeser site indicates five "species of concern" as indicated by the U.S. Fish and Wildlife Service: Pacific lamprey (<i>Entosphenus tridentata</i>), river lamprey (<i>Lampetery ayresi</i>), long-eared myotis (the bat <i>Myotis evotis</i>), long-legged myotis (the bat <i>M. volans</i>), and peregrine falcon (<i>Falco peregrinus</i>). No lampreys have been recovered at the site during sampling by the Washington Department of Fish and Wildlife. Neither species of bat nor the peregrine falcon were observed during site visits for the RI/FS, but their potential presence cannot be ruled out.
4. Is the site used by a plant species classified by the Washington State Department of Natural Resources Natural Heritage Program as "endangered," "threatened," or "sensitive" under Title 79 RCW [-7491(2)(a)(ii)]?	No additional species identified as state endangered, threatened, or sensitive were acknowledged in the RI/FS.
5. Is the area of contamination located on a property that contains at least 10 acres of native vegetation within 500 feet of the area of contamination [-7491(2)(a)(iii)]?	The site is larger than 10 acres, most of which is covered in native vegetation.
6. Has the department determined that the site may present a risk to significant wildlife populations [-7491(2)(a)(iv)]?	Ecology has not determined that the site may present a significant risk to wildlife populations.

G.3 Summary

The LSP site is located in a natural setting and does not qualify for an exclusion from a TEE. The simplified TEE is not appropriate for the LSP site because of its natural setting, status as a City Park, and size (>10 acres). Consequently, the site-specific evaluation was adopted for the TEE of the LSP site.

TABLES

LIST OF TABLES

Table G-1.	Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments
Table G-2.	Comparison of Maximum Concentrations of LSP Site Sediment Samples to EICs for Sediments and Soils
Table G-3.	Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water
Table G-4.	Soil Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area
Table G-5.	Water Exposure Point Concentrations (ug/L) and Hazard Quotients (dimensionless) of CoPECs by Area
Table G-6.	Sediment Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Table G-1. Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Soil EICs				Screening Against Sediment EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Aluminum	28	100	--	--	11000	30000	B-BB3	99070535	South Slope	50	0.0	--	600.0	0	--	--	--	--	--
Antimony	29	34	0.66	4.1	0.48	36	MWLSC01	99070511	Upper creek	5	0.8	0.0	7.2	0	0.4	10.3	1.0	90.0	1
Arsenic	160	58	0.8	9.8	10	9.09	RES-B-07	99234025	Background	7	1.4	0.1	1.3	0.268817204	20	0.5	0.2	0.5	0.838709677
Barium	28	100	--	--	100	90	B-BB5	99070593	South Slope	102	0.0	--	0.9	0.964285714	--	--	--	--	--
Beryllium	29	14	0.4	8	0.36	0.46	B-AA2	99070532	South Slope	10	0.8	0.9	0.0	0	--	--	--	--	--
Cadmium	135	62	0.04	0.2	0.15	8	TP-22	LSP0107	Landfill	4	0.1	0.0	2.0	0.011904762	0.6	0.3	0.0	13.3	0.392857143
Calcium	54	100	--	--	12000	9570	RES-B-07	99234025	Background	--	--	--	--	--	--	--	--	--	--
Chromium	159	100	--	--	155	98.2	RES-B-05	99234018	Background	42	0.0	--	2.3	0.364779874	95	0.0	--	1.0	0.006289308
Cobalt	29	100	--	--	10	9.8	B-BB5	99070595	South Slope	20	0.0	--	0.5	0.24137931	--	--	--	--	--
Copper	134	100	--	--	104	97.5	SB-18	LSP0252	Lower creek	100	0.0	--	1.0	1	80	0.0	--	1.2	0.059701493
Iron	29	100	--	--	20000	41000	B-AA4	99070588	South Slope	--	--	--	--	--	--	--	--	--	--
Lead	135	100	--	--	10	97	SB-20	LSP0271	Lower creek	50	0.0	--	1.9	0.2	335	0.0	--	0.3	0.362962963
Magnesium	54	100	--	--	10700	9700	MWLSC01	99070541	Upper creek	--	--	--	--	--	--	--	--	--	--
Manganese	29	100	--	--	1000	960	B-AA4	99070533	South Slope	1100	0.0	--	0.9	0.931034483	--	--	--	--	--
Mercury	135	64	0.002	0.18	0.0385	1.62	TP-23	LSP0110	Landfill	0.03	6.0	0.4	54.0	1	0.5	0.4	0.0	3.2	0.022988506
Nickel	133	100	--	--	106	94	B-AA4	99070588	South Slope	30	0.0	--	3.1	0.804511278	60	0.0	--	1.6	0.060150376
Potassium	28	100	--	--	1100	990	SP03; SP06	99070652; 99070655	Upper creek; Upper creek	--	--	--	--	--	--	--	--	--	--
Selenium	29	14	0.42	5.7	0.45	3.4	B-AA2	99070532	South Slope	0.3	19.0	1.0	11.3	1	--	--	--	--	--
Silver	135	5	0.04	0.61	0.31	1.4	TP-01	LSP0061	Landfill	2	0.3	0.0	0.7	0	2	0.3	0.0	0.7	0
Sodium	29	14	110	99	110	340	MW-06D	95372607	Background	--	--	--	--	--	--	--	--	--	--
Thallium	29	24	0.044	0.26	0.081	0.47	B-BB3	99070535	South Slope	1	0.3	0.0	0.5	0	--	--	--	--	--
Vanadium	28	100	--	--	35	83	B-AA4	99070588	South Slope	2	0.0	--	41.5	1	--	--	--	--	--
Zinc	145	100	--	--	100	99	B-AA4	99070588	South Slope	86	0.0	--	1.2	0.124137931	140	0.0	--	0.7	0.779310345
Acetone	3	67	0.0541	0.0541	0.89	1.78	MW-06D	95372607	Background	--	--	--	--	--	--	--	--	--	--
Acrolein	1	0	0.00043	0.00043	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzene	33	0	0.00001	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromobenzene	3	0	0.00005	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	3	0	0.00008	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	3	0	0.00006	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoethane	1	0	0.00007	0.00007	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone	3	0	0.00049	0.0356	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	3	0	0.00005	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
tert-Butylbenzene	3	0	0.00006	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Disulfide	3	0	0.00004	0.0071	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	3	0	0.00005	0.0018	--	--	--	--	--	40	0.0	0.0	0.0	--	--	--	--	--	--
1-Chlorobutane	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	3	0	0.00006	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethylvinylether	1	0	0.00005	0.00005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	3	0	0.00003	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	3	0	0.00008	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	3	0	0.00005	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	3	0	0.00011	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromomethane	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichloro-2-butene	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-Dichloro-2-butene	1	0	0.00005	0.00005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	3	0	0.00003	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethene (ND = 0)	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethene (ND = 1/2 DL)	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	3	0	0.00003	0.0018	--	--	--	--	--	700	0.0	0.0	0.0	--	--	--	--	--	--
1,3-Dichloropropane	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	3	0	0.00003	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	3	0	0.00004	0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table G-1. Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Soil EICs				Screening Against Sediment EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
1,3-Dichloropropene (ND = 1/2 DL)	3	0	0.0004	0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropene (ND = 0)	3	0	0.0004	0.0019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	3	0	0.0004	0.0017	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Ether	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethyl Methacrylate	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	33	3	0.0014	0.5	0.21	0.21	TP-06	LSP0045	Historical creek	--	--	--	--	--	--	--	--	--	--
Fluorotrichloromethane	3	0	0.0005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	3	0	0.00044	0.0356	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene	3	0	0.00003	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	3	0	0.00005	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methacrylonitrile	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl acrylate	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl Methacrylate	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl Ether	32	0	0.0014	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	3	0	0.00029	0.0178	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	3	0	0.00005	0.0089	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitropropane	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachloroethane	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propenenitrile	3	0	0.00004	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	3	0	0.00003	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	3	0	0.00005	0.0018	--	--	--	--	--	300	0.0	0.0	0.0	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	3	0	0.00006	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	3	0	0.00004	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylenes (ND = 0)	33	6	0.0029	0.5	0.33	0.63	MWLSC02	99070547	Upper creek	--	--	--	--	--	--	--	--	--	--
Toluene	33	3	0.0014	0.5	0.088	0.088	TP-06	LSP0045	Historical creek	200	0.0	0.0	0.0	0	--	--	--	--	--
Total Xylenes (ND = 1/2 DL)	33	6	0.0029	0.5	0.33	0.88	MWLSC02	99070547	Upper creek	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0.00004	0.00004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	3	0	0.00003	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	3	0	0.00005	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	3	0	0.00006	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	3	0	0.00006	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	3	33	0.0029	0.0036	0.51	0.51	TP-06	LSP0045	Historical creek	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	3	33	0.0029	0.0036	0.18	0.18	TP-06	LSP0045	Historical creek	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	1	0	0.00003	0.00003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	3	0	0.00004	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m&p-Xylene	33	6	0.0029	0.5	0.18	0.63	MWLSC02	99070547	Upper creek	--	--	--	--	--	--	--	--	--	--
o-Xylene	33	3	0.0014	0.5	0.15	0.15	TP-06	LSP0045	Historical creek	--	--	--	--	--	--	--	--	--	--
Total Xylenes	2	0	0.0029	0.0036	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl Chloride	2	0	0.0014	0.0018	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aniline	59	0	0.019	0.381	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Benzenediamine	5	0	0.096	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	73	0	0.344	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	114	33	0.0019	0.21	0.0067	9.9	SB-31	LSP0512	Upper creek	20	0.0	0.0	0.5	0.394736842	1.06	0.2	0.0	9.3	0.578947368
Acenaphthylene	114	40	0.0019	0.2	0.002	7.2	SB-11; SB-11	LSP0275; LSP0275	Historical creek; Upper creek	--	--	--	--	--	0.47	0.4	0.0	15.3	0.5
Bis(2-chloroethoxy) Methane	114	0	0.0095	0.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis-(2-chloroethyl) Ether	114	0	0.0095	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl)ether	66	0	0.0095	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) Ether	48	0	0.012	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	114	52	0.0019	0.2	0.0022	78	SP02	99070651	Upper creek	--	--	--	--	--	1.2	0.2	0.0	65.0	0.525423729
4-Bromophenyl-phenylether	114	0	0.0095	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	114	41	0.0019	0.2	0.0018	9.4	SB-29; SB-29	LSP0468; LSP0468	Historical creek; Upper creek	30	0.0	0.0	0.3	0.29787234	1	0.2	0.0	9.4	0.489361702
Caffeine	2	0	0.022	0.117	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	75	53	0.02	0.2	0.011	9.3	SB-31	LSP0510	Upper creek	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	110	0	0.0095	2.2	--	--	--	--	--	20	0.1	0.0	0.0	--	--	--	--	--	--
4-Chloro-3-methylphenol	114	0	0.0095	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	114	0	0.0038	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	114	0	0.0095	0.2	--	--	--	--	--	7	0.0	0.0	0.0	--	--	--	--	--	--
4-Chlorophenyl-phenylether	114	0	0.0095	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3B-Coprostanol	2	0	0.221	1.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Creosote	6	83	7	7	2900	9500	SB-12	LSP0201	Upper creek	--	--	--	--	--	--	--	--	--	--
7H-Dibenzo(c,g)carbazole	38	11	0.0019	0.03	0.05	0.31	SP03	99070652	Upper creek	--	--	--	--	--	--	--	--	--	--
Naphthalene	114	58	0.0019	0.24	0.002	80	TP-06	LSP0046	Historical creek	--	--	--	--	--	0.5	0.5	0.0	160.0	0.318181818

Table G-1. Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Soil EICs				Screening Against Sediment EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
1,3-Dichlorobenzene	114	0	0.0005	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	107	0	0.0095	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	114	0	0.008	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	114	75	0.0019	0.191	0.0029	94	SB-09	LSP0179	Upper creek	--	--	--	--	--	6.1	0.0	0.0	15.4	0.070588235
2-Methylnaphthalene	114	42	0.0019	0.37	0.0043	9.2	TP-06	LSP0047	Historical creek	--	--	--	--	--	0.47	0.8	0.0	19.6	0.333333333
4,6-Dinitro-2-methylphenol	110	1	0.0095	2.5	0.013	0.013	B-AA2	99070532	South Slope	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	114	0	0.0095	8.01	--	--	--	--	--	20	0.4	0.1	0.0	--	--	--	--	--	--
2,4-Dinitrotoluene	114	4	0.0095	2	0.036	4.2	TP-06	LSP0045	Historical creek	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	114	1	0.0095	2.2	0.022	0.022	B-BB5	99070536	South Slope	--	--	--	--	--	--	--	--	--	--
di-n-Octylphthalate	114	0	0.0095	0.953	--	--	--	--	--	--	--	--	--	0.026	36.7	0.6	0.0	--	--
1,2-Diphenylhydrazine	75	0	0.019	0.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	109	0	0.0095	2	--	--	--	--	--	10	0.2	0.0	0.0	--	--	--	--	--	--
Hexachloroethane	114	0	0.0014	0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	114	0	0.0095	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	73	38	0.02	0.41	0.019	79	SB-31	LSP0510	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	114	51	0.0019	0.278	0.0033	9.2	SB-09	LSP0179	Upper creek	--	--	--	--	4.26	0.1	0.0	2.2	0.137931034	--
3&4-Methylphenol	39	3	0.0095	0.18	0.11	0.11	SP03	99070652	Upper creek	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	75	3	0.019	0.2	0.092	0.114	LSC-S2	3394048	Upper creek	--	--	--	--	0.67	0.3	0.0	0.2	0	--
2-Nitroaniline	114	0	0.0095	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	113	0	0.0095	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	113	0	0.0095	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	114	0	0.0095	0.24	--	--	--	--	--	40	0.0	0.0	0.0	--	--	--	--	--	--
2-Nitrophenol	114	0	0.0084	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	114	0	0.0095	2.2	--	--	--	--	--	7	0.3	0.0	0.0	--	--	--	--	--	--
1-Nitropyrene	3	0	0.0023	0.0025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	50	0	0.046	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Nitroso-di-n-propylamine	114	0	0.008	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	114	56	0.0019	0.381	0.0026	75	TP-06	LSP0045	Historical creek	12	0.0	0.0	6.3	0.421875	3.3	0.1	0.0	22.7	0.21875
Chrysene	114	67	0.0019	0.2	0.0023	8.8	SB-09	LSP0179	Upper creek	--	--	--	--	5.94	0.0	0.0	1.5	0.039473684	--
Pyridine	49	0	0.041	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Retene	73	16	0.02	2.2	0.013	0.37	SB-18	LSP0250	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	46	0	0.096	2.2	--	--	--	--	--	20	0.1	0.0	0.0	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	46	2	0.096	2.2	0.087	0.087	TP-23	LSP0108	Landfill	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	46	0	0.096	2.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachlorophenols	39	15	0.0095	0.15	0.023	0.2	SP03	99070652	Upper creek	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	2	0	0.0145	0.0178	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	4	0	0.00006	0.41	--	--	--	--	--	20	0.0	0.0	0.0	--	--	--	--	--	--
2,4,5-Trichlorophenol	114	1	0.0057	1.5	0.0079	0.0079	LSC-S1	3394047	Lower creek	4	0.4	0.0	0.0	0	--	--	--	--	--
2,4,6-Trichlorophenol	114	1	0.0084	1	0.032	0.032	LSC-S1	3394047	Lower creek	10	0.1	0.0	0.0	0	--	--	--	--	--
Dibenzo(a,h)anthracene	114	39	0.0019	0.381	0.023	9.9	TP-06	LSP0045	Historical creek	--	--	--	--	0.8	0.5	0.0	12.4	0.422222222	--
2,4-Dimethylphenol	111	2	0.0095	0.3	0.044	0.077	LSC-S1	3394047	Lower creek	--	--	--	--	0.029	10.3	0.4	2.7	1	--
2-Methylphenol	114	2	0.0095	0.54	0.048	0.065	LSC-S2	3394048	Upper creek	--	--	--	--	0.063	8.6	0.4	1.0	0.5	--
Phenol	114	4	0.0095	0.27	0.0041	0.429	LSC-S2	3394048	Upper creek	70	0.0	0.0	0.0	0	0.42	0.6	0.0	1.0	0.2
Pentachlorophenol	114	39	0.0095	1	0.0056	7.1	TP-16	LSP0088	Historical creek	3	0.3	0.0	2.4	0.133333333	0.36	2.8	0.4	19.7	0.6
Bis(2-ethylhexyl)phthalate	114	25	0.011	2.76	0.014	6.18	LSC-S2	3394048	Upper creek	--	--	--	--	0.23	12.0	0.3	26.9	0.413793103	--
Butylbenzylphthalate	114	12	0.0095	0.381	0.0016	0.666	LSC-S1	3394047	Lower creek	--	--	--	--	0.26	1.5	0.3	2.6	0.142857143	--
Dimethylphthalate	114	17	0.0095	0.297	0.0032	3.13	LSC-S1	3394047	Lower creek	200	0.0	0.0	0.0	0.052631579	0.046	6.5	0.5	68.0	0.631578947
Benzoic Acid	114	26	0.019	2	0.021	2.92	LSC-S2	3394048	Upper creek	--	--	--	--	0.65	3.1	0.3	4.5	0.666666667	--
Benzo(b)fluoranthene	114	63	0.0019	0.2	0.003	9.5	SB-29; SB-29	LSP0474; LSP0474	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	39	33	0.019	0.026	0.0034	2.2	SP01	99070650	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	114	56	0.0019	0.2	0.0034	9.9	SB-31	LSP0510	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	114	6	0.0095	0.953	0.0068	1.1	SP03	99070652	Upper creek	--	--	--	--	0.057	16.7	0.4	19.3	0.571428571	--
Dibenzofuran	114	39	0.0095	0.35	0.0014	9.9	SP02	99070651	Upper creek	--	--	--	--	0.4	0.9	0.0	24.8	0.477272727	--
Fluoranthene	114	77	0.0019	0.2	0.0037	9.4	SB-22	LSP0326	Upper creek	--	--	--	--	11	0.0	0.0	0.9	0.306818182	--
Indeno(1,2,3-cd)pyrene	114	60	0.0019	0.381	0.004	94	SB-11; SB-11	LSP0274; LSP0274	Historical creek; Upper creek	--	--	--	--	4.12	0.1	0.0	22.8	0.132352941	--
Pyrene	114	71	0.0019	0.2	0.0018	95	SB-29; SB-29	LSP0468; LSP0468	Historical creek; Upper creek	--	--	--	--	8.8	0.0	0.0	10.8	0.037037037	--
Benzo(g,h,i)perylene	114	59	0.0019	0.2	0.0048	87	SB-11; SB-11	LSP0274; LSP0274	Historical creek; Upper creek	--	--	--	--	4.02	0.0	0.0	21.6	0.089552239	--
Dibenzo(a,h)acridine	37	0	0.0019	0.037	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,j)acridine	37	3	0.0019	0.037	0.036	0.036	SP05	99070654	Upper creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,e)pyrene	39	18	0.0019	0.0026	0.064	2.6	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)pyrene	39	18	0.0019	0.0026	0.0073	1.4	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,i)pyrene	39	18	0.0019	0.0026	0.029	0.47	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--

Table G-1. Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Soil EICs				Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC
Dibenzo(a,l)pyrene	38	11	0.0019	0.037	0.0039	0.1	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	83	6	0.0019	0.88	0.016	3.4	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--
LPAH (ND = 1/2 DL)	114	81	0.0019	0.191	0.0089	8.574	SP01	99070650	Upper creek	--	--	--	--	6.6	0.0	0.0	1.3	0.076086957
Total Benzofluoranthenes (ND = 0)	114	64	0.019	0.2	0.003	91	TP-17	LSP0090	Historical creek	--	--	--	--	11	0.0	0.0	8.3	0.479452055
Total Benzofluoranthenes (ND = 1/2 DL)	114	64	0.019	0.2	0.0057	91	TP-17	LSP0090	Historical creek	--	--	--	--	11	0.0	0.0	8.3	0.479452055
HPAH (ND = 1/2 DL)	114	79	0.019	0.312	0.02935	9.333	LSC-S2	3394048	Upper creek	--	--	--	--	31	0.0	0.0	0.3	0.277777778
TPAHs (ND = 1/2 DL)	114	84	0.019	0.312	0.0319	99.92	SB-09	LSP0176	Upper creek	--	--	--	--	--	--	--	--	--
Aldrin	12	0	0.000043	0.000044	--	--	--	--	--	0.1	0.0	0.0	0.0	--	--	--	--	--
alpha-BHC	12	0	0.00005	0.000051	--	--	--	--	--	--	--	--	--	--	--	--	--	--
beta-BHC	12	0	0.000089	0.000091	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-BHC (Lindane)	12	0	0.000088	0.00009	--	--	--	--	--	6	0.0	0.0	0.0	--	--	--	--	--
delta-BHC	12	0	0.000021	0.000021	--	--	--	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlordane	12	0	0.000057	0.000058	--	--	--	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlordane	12	0	0.00012	0.00012	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlordane (ND = 0)	12	0	0.00012	0.00012	--	--	--	--	--	1	0.0	0.0	0.0	--	--	--	--	--
Chlordane (ND = 1/2 DL)	12	0	0.00012	0.00012	--	--	--	--	--	1	0.0	0.0	0.0	--	--	--	--	--
4,4'-DDD	12	0	0.000093	0.000095	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE	12	0	0.00012	0.00012	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	12	8	0.0002	0.0002	0.0032	0.0032	HA-01	LSP0569	Railroad	--	--	--	--	--	--	--	--	--
Dieldrin	12	0	0.000083	0.000085	--	--	--	--	--	0.07	0.0	0.0	0.0	--	--	--	--	--
Endosulfan I	12	0	0.000062	0.000063	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	12	0	0.00012	0.00012	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan Sulfate	12	0	0.00015	0.00015	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin	12	0	0.00008	0.000082	--	--	--	--	--	0.2	0.0	0.0	0.0	--	--	--	--	--
Endrin Aldehyde	12	0	0.00018	0.00018	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endrin Ketone	12	0	0.00018	0.00019	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	12	0	0.000072	0.000073	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Heptachlor Epoxide	12	0	0.000053	0.000054	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor	12	0	0.0011	0.0011	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	12	0	0.047	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Heptachlor (ND = 0)	12	0	0.000072	0.000073	--	--	--	--	--	0.4	0.0	0.0	0.0	--	--	--	--	--
Total Heptachlor (ND = 1/2 DL)	12	0	0.000072	0.000073	--	--	--	--	--	0.4	0.0	0.0	0.0	--	--	--	--	--
Total DDX (ND = 0)	12	8	0.0002	0.0002	0.0032	0.0032	HA-01	LSP0569	Railroad	0.75	0.0	0.0	0.0	0	--	--	--	--
Total DDX (ND = 1/2 DL)	12	8	0.0002	0.0002	0.0033065	0.0033065	HA-01	LSP0569	Railroad	0.75	0.0	0.0	0.0	0	--	--	--	--
Endosulfan (ND = 0)	12	0	0.00015	0.00015	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Endosulfan (ND = 1/2 DL)	12	0	0.00015	0.00015	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1016	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	14	0	0.0019	0.033	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Aroclors (ND = 0)	14	0	0.0019	0.033	--	--	--	--	--	0.65	0.1	0.0	0.0	--	0.06	0.6	0.0	0.0
Total Aroclors (ND = 1/2 DL)	14	0	0.0019	0.033	--	--	--	--	--	0.65	0.1	0.0	0.0	--	0.06	0.6	0.0	0.0
Gasoline Range Hydrocarbons	19	16	0.004	0.011	110	170	TP-06	LSP0046	Historical creek	100	0.0	0.0	1.7	1	--	--	--	--
Diesel Range Hydrocarbons	138	70	0.4	2.6	100	96	HA-04	LSP0575	Railroad	200	0.0	0.0	0.5	0.635416667	--	--	--	--
Motor Oil	136	76	11	78	100	90	TP-22	LSP0107	Landfill	--	--	--	--	--	--	--	--	--
TPH	67	99	2	2	103	99	SS-FS20	SS-FS20	South Slope	--	--	--	--	--	--	--	--	--
C5-C6 Aliphatics	30	0	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C6-C8 Aliphatics	30	0	5	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C8-C10 Aliphatics	35	0	14	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C10-C12 Aliphatics	44	2	14	6.4	9.4	9.4	SB-09	LSP0177	Upper creek	--	--	--	--	--	--	--	--	--
C12-C16 Aliphatics	46	24	5.2	6.8	11	8.7	MWLSC02	99070512	Upper creek	--	--	--	--	--	--	--	--	--
C16-C18 Aliphatics	39	10	5.2	6.8	250	9	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--
C16-C21 Aliphatics	7	100	--	--	15	87	SB-11; SB-11	LSP0275; LSP0275	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--
C18-C21 Aliphatics	39	13	5.2	6.8	15	6.7	SP06	99070655	Upper creek	--	--	--	--	--	--	--	--	--
C21-C28 Aliphatics	39	18	5.2	6.8	10	94	SP01	99070650	Upper creek	--	--	--	--	--	--	--	--	--
C21-C34 Aliphatics	7	100	--	--	130	19	TP-06	LSP0044	Historical creek	--	--	--	--	--	--	--	--	--
C28-C36 Aliphatics	39	18	5.2	6.8	140	8.2	MWLSC01	99070511	Upper creek	--	--	--	--	--	--	--	--	--
C8-C10 Aromatics	37	5	2.4	66	30	4.9	TP-06	LSP0044	Historical creek	--	--	--	--	--	--	--	--	--
C10-C12 Aromatics	44	7	2.4	6.4	13	90	SB-09	LSP0177	Upper creek	--	--	--	--	--	--	--	--	--
C12-C13 Aromatics	30	3	5	5	74	74	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--

Table G-1. Comparison of Maximum Concentrations of LSP Site Soil Samples to EICs for Soils and Sediments.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Soil EICs				Screening Against Sediment EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
C12-C16 Aromatics	44	14	2.4	6.8	2000	81	SB-29; SB-29	LSP0468; LSP0468	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--	--
C16-C18 Aromatics	39	3	5.2	6.8	510	510	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
C16-C21 Aromatics	7	100	--	--	29	900	SB-29; SB-29	LSP0468; LSP0468	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--	--
C18-C21 Aromatics	39	10	5.2	6.8	20	9.6	SP03	99070652	Upper creek	--	--	--	--	--	--	--	--	--	--
C21-C28 Aromatics	39	15	5.2	6.8	11	700	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
C21-C34 Aromatics	7	100	--	--	200	4900	SB-11; SB-11	LSP0275; LSP0275	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--	--
C28-C36 Aromatics	39	21	5.2	6.8	22	81	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	62	15	0.00000151	0.000043	0.00000669	0.000036	TP-16	LSP0088	Historical creek	--	--	--	--	--	--	--	--	--	--
Total TCDD	62	68	0.00000151	0.000043	0.00002227	0.00021	SB-18	LSP0250	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	62	29	0.00000242	0.0000538	0.0000102	0.000135	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
Total PeCDD	62	66	0.00000354	0.000015	0.00001696	0.00053	SB-18	LSP0250	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	62	52	0.00000239	0.0000497	0.00000475	0.000423	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	62	73	0.00000168	0.000027	0.00000569	0.00292	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	62	60	0.00000191	0.0000297	0.00001269	0.000745	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
Total HxCDD	62	82	0.00000446	0.000024	0.0000024	0.0132	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	62	85	0.00000609	0.0000234	0.00000426	0.078	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
Total HpCDD	62	89	0.00000609	0.00000956	0.00000426	0.17	TP-16	LSP0088	Historical creek	--	--	--	--	--	--	--	--	--	--
OCDD	62	84	0.00000411	0.0000712	0.000082307	0.79	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	62	53	0.00000248	0.00013	0.00000268	0.000038	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
Total TCDF	62	56	0.00000237	0.00013	0.00000918	0.00014	SB-18	LSP0250	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	62	15	0.00000135	0.000054	0.0000013	0.00018	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	62	27	0.00000139	0.00003843	0.00000932	0.00021	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
Total PeCDF	62	71	0.00000228	0.000054	0.00001524	0.00304	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	62	21	0.00000454	0.00314	0.00003881	0.0014	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	62	13	0.00000189	0.0000725	0.000002108	0.0003	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	62	15	0.00000291	0.000115	0.00000415	0.000036	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	62	16	0.00000218	0.0000848	0.0000052	0.00022	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
Total HxCDF	62	79	0.00000247	0.0000141	0.00001914	0.016	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	62	79	0.00000559	0.000012424	0.00001577	0.0174	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	62	27	0.00000252	0.00015	0.000002172	0.00063	SB-20	LSP0271	Lower creek	--	--	--	--	--	--	--	--	--	--
Total HpCDF	62	79	0.00000336	0.00000547	0.00001577	0.069	TP-16	LSP0088	Historical creek	--	--	--	--	--	--	--	--	--	--
OCDF	62	82	0.00000064	0.000053698	0.00002437	0.147	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
TEQDF B1	62	89	0.00000411	0.0000186	1.05174E-06	0.0008058	SB-20	LSP0271	Lower creek	0.000002	9.3	1.0	402.9	0.854545455	--	--	--	--	--
TEQDF F1	62	89	0.00000411	0.0000186	6.46545E-07	0.00085612	SP07	99070656	General Site	0.000002	9.3	1.0	428.1	0.781818182	--	--	--	--	--
TEQDF 0.5M98	62	89	0.00000411	0.0000186	7.24827E-07	0.001719635	SP07	99070656	General Site	0.000002	9.3	1.0	859.8	0.836363636	--	--	--	--	--
TEQDF 0.5M05	62	89	0.00000411	0.0000186	7.01962E-07	0.001876575	SP07	99070656	General Site	0.000002	9.3	1.0	938.3	0.836363636	--	--	--	--	--
Total PCDD (ND = 0)	62	89	0.00000411	0.0000186	0.00000426	0.9326668	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
Total PCDD (ND = 1/2 DL)	62	89	0.00000411	0.0000186	0.000030586	0.9326668	SP07	99070656	General Site	--	--	--	--	--	--	--	--	--	--
Total PCDF (ND = 1/2 DL)	62	87	0.00000069	0.00000637	0.000006764	0.1648013	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
Total PCDF (ND = 0)	62	87	0.00000069	0.00000637	0.000005989	0.1647363	SP02	99070651	Upper creek	--	--	--	--	--	--	--	--	--	--
Liquid Limit	7	100	--	--	23.7	63.2	TP-06	LSP0048	Historical creek	--	--	--	--	--	--	--	--	--	--
Moisture Content	15	100	--	--	10	9	SC-18	SC-18-01101993-0-0.5	--	--	--	--	--	--	--	--	--	--	--
Percent Moisture	25	100	--	--	14	9.9	TP-02	LSP0068	Landfill	--	--	--	--	--	--	--	--	--	--
Plastic Limit	7	100	--	--	15	64.3	SB-22	LSP0328	Upper creek	--	--	--	--	--	--	--	--	--	--
Plasticity Index	7	100	--	--	11.6	6.3	SB-09	LSP0173	Upper creek	--	--	--	--	--	--	--	--	--	--
Specific Gravity	15	100	--	--	2.47	2.77	SB-32	LSP0530	Upper creek	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	18	100	--	--	1300	79000	SP03	99070652	Upper creek	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	98	100	--	--	0.085	9.37	SB-25	LSP0451	Upper creek	--	--	--	--	--	--	--	--	--	--
Total Solids	145	100	--	--	20.8	99.8	MWLSC04	99070514	Upper creek	--	--	--	--	--	--	--	--	--	--

Notes: -- = No data

Table G-2. Comparison of Maximum Concentrations of LSP Site Sediment Samples to EICs for Sediments and Soils.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs					Screening Against Soil EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Aluminum	18	100	--	--	10500	9700	SD03	99070522	Lower creek	--	--	--	--	--	50	0.0	--	194.0	0.22222222
Antimony	18	33	0.59	4.2	4	8.3	OS06	95352505	Upper creek	0.4	10.5	1.0	20.8	1	5	0.8	0.0	1.7	0.5
Arsenic	48	75	0.9	4.5	10	9.5	SB-38	LSP0559	Historical creek	20	0.2	0.1	0.5	0.52777778	7	0.6	0.0	1.4	0.13888889
Barium	18	100	--	--	100	96.9	OS04	95352503	Upper creek	--	--	--	--	--	102	0.0	--	1.0	0.88888889
Beryllium	18	39	0.46	6	0.2	0.27	OS05; OS06	95352504; 95352505	Upper creek; Upper creek	--	--	--	--	--	10	0.6	0.8	0.0	0
Cadmium	56	75	0.05	4.5	0.21	2.5	SB-37	LSP0552	Historical creek	0.6	7.5	0.1	4.2	0.380952381	4	1.1	0.1	0.6	0
Calcium	18	100	--	--	12100	9100	SD11	99070530	Wetlands	--	--	--	--	--	--	--	--	--	--
Chromium	45	100	--	--	103	86	SB-37	LSP0552	Historical creek	95	0.0	--	0.9	0	42	0.0	--	2.0	0.28888889
Cobalt	18	100	--	--	10.6	9.8	SD10	99070529	Upper creek	--	--	--	--	--	20	0.0	--	0.5	0.66666667
Copper	58	100	--	--	104	91.3	OS03	95352502	Upper creek	80	0.0	--	1.1	0.051724138	100	0.0	--	0.9	1
Iron	18	100	--	--	13000	24700	OS05	95352504	Upper creek	--	--	--	--	--	--	--	--	--	--
Lead	58	98	0.2	0.2	11.2	92	SB-36	LSP0548	Historical creek	335	0.0	0.0	0.3	0.456140351	50	0.0	0.0	1.8	0.315789474
Magnesium	18	100	--	--	4100	7650	SD11	99070530	Wetlands	--	--	--	--	--	--	--	--	--	--
Manganese	18	100	--	--	235	930	SD10	99070529	Upper creek	--	--	--	--	--	1100	0.0	--	0.8	1
Mercury	59	56	0.003	0.35	0.004	0.4	SB-37	LSP0552	Historical creek	0.5	0.7	0.0	0.8	0	0.03	11.7	0.4	13.3	0.909090909
Nickel	56	100	--	--	106	95.4	OS03	95352502	Upper creek	60	0.0	--	1.6	0.142857143	30	0.0	--	3.2	0.660714286
Potassium	18	100	--	--	1300	990	SD02	99070521	Lower creek	--	--	--	--	--	--	--	--	--	--
Selenium	18	0	0.2	8.9	--	--	--	--	--	--	--	--	--	--	0.3	29.7	0.6	0.0	--
Silver	45	2	0.05	2.3	30	30	SD04	99070523	Lower creek	2	1.2	0.0	15.0	1	2	1.2	0.0	15.0	1
Sodium	18	39	120	4800	162	483	OS01	95352500	Beach	--	--	--	--	--	--	--	--	--	--
Thallium	18	0	0.25	4.5	--	--	--	--	--	--	--	--	--	--	1	4.5	0.6	0.0	--
Vanadium	18	100	--	--	29	60.5	SD11	99070530	Wetlands	--	--	--	--	--	2	0.0	--	30.3	1
Zinc	59	100	--	--	100	98	SB-15	LSP0230	Upper creek	140	0.0	--	0.7	0.762711864	86	0.0	--	1.1	0.101694915
Aniline	25	4	0.02	0.226	0.12	0.12	SB-02	LSP0127	Lower creek	--	--	--	--	--	--	--	--	--	--
1,4-Benzenediamine	1	0	2.3	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzidine	24	0	0.339	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	41	71	0.0022	0.185	0.0035	5.4	SB-19	LSP0254	Lower creek	1.06	0.2	0.0	5.1	0.137931034	20	0.0	0.0	0.3	0.068965517
Acenaphthylene	41	71	0.0022	0.21	0.0044	1.8	SB-38	LSP0561	Historical creek	0.47	0.4	0.0	3.8	0.137931034	--	--	--	--	--
Bis(2-chloroethoxy) Methane	41	0	0.01	0.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethyl) Ether	41	0	0.01	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl)ether	18	0	0.011	0.226	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) Ether	23	0	0.012	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	41	88	0.0022	0.185	0.012	9	SB-19	LSP0253	Lower creek	1.2	0.2	0.0	7.5	0.444444444	--	--	--	--	--
4-Bromophenyl-phenylether	41	0	0.01	0.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	41	76	0.0022	0.185	0.0063	9.2	SB-19	LSP0254	Lower creek	1	0.2	0.0	9.2	0.129032258	30	0.0	0.0	0.3	0.032258065
Caffeine	6	0	0.02	0.196	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	31	71	0.022	0.393	0.011	4.78	LSC-03	3394042	Lower creek	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	41	0	0.011	2.3	--	--	--	--	--	--	--	--	--	--	20	0.1	0.0	0.0	--
4-Chloro-3-methylphenol	41	0	0.0099	0.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	41	0	0.0043	0.226	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	41	0	0.01	0.226	--	--	--	--	--	--	--	--	--	--	7	0.0	0.0	0.0	--
4-Chlorophenyl-phenylether	41	0	0.01	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3B-Coprostanol	6	33	0.236	1.96	0.638	2.8	LSC-03	3394042	Lower creek	--	--	--	--	--	--	--	--	--	--
Creosote	2	100	--	--	11000	5200	SB-19	LSP0253	Lower creek	--	--	--	--	--	--	--	--	--	--
7H-Dibenzo(c,g)carbazole	11	9	0.0022	0.01	0.013	0.013	SD02	99070521	Lower creek	--	--	--	--	--	--	--	--	--	--
Naphthalene	41	73	0.0022	0.185	0.0035	4.3	LSC Bank	LSP0051	Upper creek	0.5	0.4	0.0	8.6	0.066666667	--	--	--	--	--
1,2-Dichlorobenzene *	23	0	0.112936345	6.666666667	--	--	--	--	--	2.3	2.9	0.2	0.0	--	--	--	--	--	--
1,3-Dichlorobenzene	41	0	0.01	0.226	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene *	23	0	0.102669405	6.666666667	--	--	--	--	--	3.1	2.2	0.1	0.0	--	20	0.3	0.1	0.0	--
3,3'-Dichlorobenzidine	35	0	0.011	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	41	0	0.0081	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate *	23	4	0.102669405	6.666666667	0.638461538	0.638461538	SD09	99070528	Upper creek	61	0.1	0.0	0.0	0	100	0.1	0.2	0.0	0
Phenanthrene	41	98	0.185	0.185	0.0024	7.8	SB-19	LSP0254	Lower creek	6.1	0.0	0.0	1.3	0.05	--	--	--	--	--
2-Methylnaphthalene	41	63	0.0022	0.19	0.0021	8.7	LSC Bank	LSP0051	Upper creek	0.47	0.4	0.0	18.5	0.076923077	--	--	--	--	--
di-n-Butylphthalate *	23	30	0.281818182	6.666666667	0.87456847	4.857142857	SB-35	LSP0545	Historical creek	220	0.0	0.1	0.0	0.285714286	200	0.0	0.1	0.0	0.285714286
4,6-Dinitro-2-methylphenol	41	0	0.011	2.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	41	0	0.011	9.03	--	--	--	--	--	--	--	--	--	--	20	0.5	0.2	0.0	--
2,4-Dinitrotoluene	41	0	0.01	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	41	0	0.011	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
di-n-Octylphthalate	41	2	0.01	0.23	0.012	0.012	SB-10	LSP0181	Lower creek	0.026	8.8	0.6	0.5	0	--	--	--	--	--
1,2-Diphenylhydrazine	30	0	0.02	0.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene *	23	0	0.102669405	6.666666667	--	--	--	--	--	0.38	17.5	0.9	0.0	--	17	0.4	0.2	0.0	--
Hexachlorobutadiene *	23	0	0.205338809	6.666666667	--	--	--	--	--	3.9	1.7	0.1	0.0	--	--	--	--	--	--
Hexachlorocyclopentadiene	40	0	0.011	1.13	--	--	--	--	--	--	--	--	--	--	10	0.1	0.0	0.0	--
Hexachloroethane	41	2	0.011	0.226	0.0073	0.0073	LSC-06	3394045	Upper creek	--	--	--	--	--	--	--	--	--	--
Isophorone	41	0	0.01	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	23	52	0.02	0.2	0.025	11	LSC Bank	LSP0051	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	41	90	0.01	0.185	0.003	8.8	OS05	95352504	Upper creek	4.26	0.0	0.0	2.1	0.108108108	--	--	--	--	--
3&4-Methylphenol	11	55	0.011	0.05	0.003	1.7	SD06	99070525	Upper creek	--	--	--	--	--	--	--	--	--	--

Table G-2. Comparison of Maximum Concentrations of LSP Site Sediment Samples to EICs for Sediments and Soils.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				Screening Against Soil EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Benzo(a)pyrene	41	93	0.01	0.185	0.0041	9.4	SB-35	LSP0546	Historical creek	3.3	0.1	0.0	2.8	0.184210526	12	0.0	0.0	0.8	0.447368421
2-Nitroaniline	41	0	0.011	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	41	0	0.011	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	41	0	0.011	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	41	0	0.01	0.24	--	--	--	--	--	--	--	--	--	40	0.0	0.0	0.0	--	--
2-Nitrophenol	41	0	0.0086	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	41	0	0.011	2.3	--	--	--	--	--	--	--	--	--	7	0.3	0.0	0.0	--	--
1-Nitropyrene	1	0	0.012	0.012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Nitrosodimethylamine	30	0	0.047	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-nitrosodiphenylamine *	23	0	0.205338809	6.666666667	--	--	--	--	--	11	0.6	0.2	0.0	--	20	0.3	0.1	0.0	--
n-Nitroso-di-n-propylamine	41	0	0.01	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	41	93	0.01	0.185	0.0098	95	LSC Bank	LSP0051	Upper creek	5.94	0.0	0.0	16.0	0.184210526	--	--	--	--	--
Dibenzo(a,h)anthracene	41	76	0.0022	0.196	0.0087	8.3	SB-38	LSP0561	Historical creek	0.8	0.2	0.0	10.4	0.290322581	--	--	--	--	--
Pyridine	30	0	0.042	2.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Retene	23	30	0.024	2.3	0.056	18	SB-19	LSP0253	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	17	12	0.099	2.3	0.11	0.11	SB-02; SB-02	LSP0127; LSP0132	Lower creek; Lower creek	--	--	--	--	--	20	0.1	0.0	0.0	0
2,3,4,6-Tetrachlorophenol	17	12	0.099	2.3	0.15	0.175	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	17	12	0.099	2.3	0.2	0.225	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Tetrachlorophenols	11	64	0.011	0.05	0.0046	2.0395	SD06	99070525	Upper creek	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	1	0	0.46	0.46	--	--	--	--	--	--	--	--	--	--	20	0.0	0.0	0.0	--
1,2,4-Trichlorobenzene *	23	0	0.205338809	6.666666667	--	--	--	--	--	0.81	8.2	0.6	0.0	--	20	0.3	0.1	0.0	--
2,4,5-Trichlorophenol	41	0	0.0058	1	--	--	--	--	--	--	--	--	--	4	0.3	0.0	0.0	--	
2,4,6-Trichlorophenol	41	2	0.0086	1	0.74	0.74	SD06	99070525	Upper creek	--	--	--	--	--	10	0.1	0.0	0.1	0
Fluoranthene	41	98	0.185	0.185	0.0135	86.3	LSC-03	3394042	Lower creek	11	0.0	0.0	7.8	0.275	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	41	90	0.0024	0.196	0.0022	9.6	SB-39	LSP0563	Historical creek	4.12	0.0	0.0	2.3	0.081081081	--	--	--	--	--
Pyrene	41	98	0.185	0.185	0.011	8.88	OS05	95352504	Upper creek	8.8	0.0	0.0	1.0	0.025	--	--	--	--	--
Benzo(g,h,i)perylene	41	90	0.0024	0.196	0.003	9.4	SB-36	LSP0548	Historical creek	4.02	0.0	0.0	2.3	0.135135135	--	--	--	--	--
LPAH (ND = 1/2 DL)	41	98	0.185	0.185	0.009	8.647	SB-35	LSP0546	Historical creek	6.6	0.0	0.0	1.3	0.075	--	--	--	--	--
Total Benzofluoranthenes (ND = 0)	41	93	0.1	0.196	0.0132	96	SB-38	LSP0561	Historical creek	11	0.0	0.0	8.7	0.578947368	--	--	--	--	--
Total Benzofluoranthenes (ND = 1/2 DL)	41	93	0.1	0.196	0.0132	96	SB-38	LSP0561	Historical creek	11	0.0	0.0	8.7	0.578947368	--	--	--	--	--
2,4-Dimethylphenol	41	22	0.011	0.225	0.012	0.22	OS04	95352503	Upper creek	0.029	7.8	0.5	7.6	0.444444444	--	--	--	--	--
2-Methylphenol	41	22	0.011	0.225	0.0064	1	SD06	99070525	Upper creek	0.063	3.6	0.5	15.9	0.333333333	--	--	--	--	--
Benzo(b)fluoranthene	41	93	0.01	0.196	0.0044	9.1	OS04	95352503	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	11	91	0.1	0.1	0.0044	1.1	SD10	99070529	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	41	93	0.01	0.196	0.0044	6.7	SB-19	LSP0253	Lower creek	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	30	47	0.02	0.2	0.024	1	SB-37	LSP0552	Historical creek	0.67	0.3	0.0	1.5	0.071428571	--	--	--	--	--
Phenol	41	41	0.011	0.28	0.016	2.11	LSC-05	3394044	Wetlands	0.42	0.7	0.0	5.0	0.117647059	70	0.0	0.0	0.0	0
Pentachlorophenol	41	88	0.05	0.926	0.0037	7.9	SB-36	LSP0548	Historical creek	0.36	2.6	0.2	21.9	0.75	3	0.3	0.0	2.6	0.194444444
Bis(2-ethylhexyl)phthalate	41	49	0.022	0.972	0.053	1.68	OS04	95352503	Upper creek	0.23	4.2	0.5	7.3	0.5	--	--	--	--	--
Butylbenzylphthalate	41	51	0.011	0.225	0.0022	1	SB-34	LSP0555	Historical creek	0.26	0.9	0.0	3.8	0.238095238	--	--	--	--	--
Dimethylphthalate	41	66	0.025	0.21	0.002	2.7	SB-19	LSP0263	Lower creek	0.046	4.6	0.8	58.7	0.777777778	200	0.0	0.0	0.0	0
Dibenzo(a,h)acridine	11	0	0.0022	0.014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,j)acridine	11	0	0.0022	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,e)pyrene	11	45	0.0022	0.01	0.02	0.16	SD02	99070521	Lower creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)pyrene	11	45	0.0022	0.21	0.011	0.08	SD08	99070527	Upper creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,i)pyrene	11	36	0.0022	0.039	0.0059	0.1	SD06	99070525	Upper creek	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,l)pyrene	11	18	0.0022	0.034	0.0096	0.015	SD08	99070527	Upper creek	--	--	--	--	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	28	4	0.0022	1	0.14	0.14	SD10	99070529	Upper creek	--	--	--	--	--	--	--	--	--	--
Benzoic Acid	41	44	0.022	2	0.081	8.24	LSC-05	3394044	Wetlands	0.65	3.1	0.4	12.7	0.555555556	--	--	--	--	--
Benzyl Alcohol	41	24	0.011	0.34	0.026	6.29	LSC-05	3394044	Wetlands	0.057	6.0	0.5	110.4	0.9	--	--	--	--	--
Dibenzofuran	41	61	0.011	0.185	0.0016	33	LSC Bank	LSP0051	Upper creek	0.4	0.5	0.0	82.5	0.12	--	--	--	--	--
HPAH (ND = 1/2 DL)	41	98	0.185	0.185	0.0734	9.44305	SD06	99070525	Upper creek	31	0.0	0.0	0.3	0.4	--	--	--	--	--
TPAHs (ND = 1/2 DL)	41	98	0.185	0.185	0.0824	96.692	OS05	95352504	Upper creek	--	--	--	--	--	--	--	--	--	--
TEQDF B1	19	100	--	--	5.32786E-06	0.004439	SB-02	LSP0132	Lower creek	--	--	--	--	--	0.000002	0.0	--	2219.5	1
Motor Oil	32	84	12	17	1000	990	SB-34	LSP0555	Historical creek	--	--	--	--	--	--	--	--	--	--
C8-C10 Aliphatics	3	0	14	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C10-C12 Aliphatics	14	0	14	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C12-C16 Aliphatics	14	36	29	6.6	10	8.9	SB-38	LSP0561	Historical creek	--	--	--	--	--	--	--	--	--	--
C16-C18 Aliphatics	11	27	29	6.6	12	6.1	SD10	99070529	Upper creek	--	--	--	--	--	--	--	--	--	--
C16-C21 Aliphatics	3	100	--	--	100	120	LSC Bank; SB-35	LSP0051; LSP0546	Historical creek; Upper creek	--	--	--	--	--	--	--	--	--	--
C18-C21 Aliphatics	11	45	29	6.5	13	76	SD06	99070525	Upper creek	--	--	--	--	--	--	--	--	--	--
C21-C28 Aliphatics	11	91	6.1	6.1	100	64	SD02	99070521	Lower creek	--	--	--	--	--	--	--	--	--	--
C21-C34 Aliphatics	3	100	--	--	130	53	LSC Bank	LSP0051	Upper creek	--	--	--	--	--	--	--	--	--	--
C28-C36 Aliphatics	11	82	29	6.1	25	91	SD05	99070524	Upper creek	--	--	--	--	--	--	--	--	--	--
C8-C10 Aromatics	3	33	2.9	4	16	16	LSC Bank	LSP0051	Upper creek	--	--	--	--	--	--	--	--	--	--
C10-C12 Aromatics	14	7	16	7	16	16	LSC Bank	LSP0051	Upper creek	--	--	--	--	--	--	--	--	--	--
C12-C16 Aromatics	14	7	16	7	520	520	LSC Bank	LSP0051	Upper creek	--	--	--	--	--	--	--	--	--	--
C16-C18 Aromatics	11	0	16	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table G-2. Comparison of Maximum Concentrations of LSP Site Sediment Samples to EICs for Sediments and Soils.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				Screening Against Soil EICs					
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance	EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
C16-C21 Aromatics	3	100	--	--	23	90	SB-38	LSP0561	Historical creek	--	--	--	--	--	--	--	--	--	--
C18-C21 Aromatics	11	45	29	6.5	110	9	SD08	99070527	Upper creek	--	--	--	--	--	--	--	--	--	--
C21-C28 Aromatics	11	82	29	6.1	11	8.1	SD03	99070522	Lower creek	--	--	--	--	--	--	--	--	--	--
C21-C34 Aromatics	3	100	--	--	1800	460	SB-38	LSP0561	Historical creek	--	--	--	--	--	--	--	--	--	--
C28-C36 Aromatics	11	91	6.1	6.1	155	50	SD02	99070521	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	19	37	0.00000029	0.00000242	0.0000032	0.0000089	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Total TCDD	19	79	0.00000029	0.0000049	0.00000162	0.0011	SB-37	LSP0552	Historical creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	19	68	0.00000568	0.0000082	0.00000231	0.00012	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total PeCDD	19	84	0.00000568	0.000032	0.00000125	0.0016	SB-37	LSP0552	Historical creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	19	68	0.00000107	0.0000032	0.00000434	0.0004	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDD	19	100	--	--	0.000014	0.0084	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDD	19	100	--	--	0.0000036	0.0011	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total HxCDD	19	100	--	--	0.000040995	0.024	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	19	100	--	--	0.0001617	0.22	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total HpCDD	19	100	--	--	0.000286	0.38	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
OCDD	19	100	--	--	0.0013845	1.2	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDF	19	68	0.000000329	0.00000096	0.00000137	0.0003	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total TCDF	19	84	0.000000395	0.00000096	0.00000558	0.00046	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	19	47	0.000000287	0.0000269	0.00000159	0.0012	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,7,8-PeCDF	19	68	0.000000501	0.0000262	0.00000168	0.0016	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total PeCDF	19	100	--	--	0.00000881	0.011	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	19	42	0.00000083	0.00154	0.00014	0.0099	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,6,7,8-HxCDF	19	68	0.00000142	0.0000391	0.00000351	0.0019	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	19	42	0.00000014	0.00018	0.00000281	0.00032	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
2,3,4,6,7,8-HxCDF	19	42	0.00000166	0.0000621	0.000015	0.0011	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Total HxCDF	19	100	--	--	0.0000416	0.1	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	19	100	--	--	0.0000358	0.054	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	19	84	0.00000267	0.000297	0.00000423	0.0043	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Total HpCDF	19	100	--	--	0.0000358	0.36	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
OCDF	19	100	--	--	0.0000861	0.24	SB-35	LSP0546	Historical creek	--	--	--	--	--	--	--	--	--	--
TEQDF F1	19	100	--	--	4.34971E-06	0.003375	SB-02	LSP0132	Lower creek	--	--	--	--	--	0.000002	0.0	--	1687.5	1
TEQDF 0.5M98	19	100	--	--	7.38741E-06	0.006065	SB-02	LSP0132	Lower creek	--	--	--	--	--	0.000002	0.0	--	3032.5	1
TEQDF 0.5M05	19	100	--	--	7.56393E-06	0.005936	SB-02	LSP0132	Lower creek	--	--	--	--	--	0.000002	0.0	--	2968.0	1
Diesel Range Hydrocarbons	33	82	0.5	0.7	10	950	SB-38	LSP0557	Historical creek	--	--	--	--	--	200	0.0	0.0	4.8	0.555555556
Total PCDD (ND = 0)	19	100	--	--	0.001718795	1.48335	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Total PCDD (ND = 1/2 DL)	19	100	--	--	0.00171999	1.48335	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Total PCDF (ND = 1/2 DL)	19	100	--	--	0.00017279	0.571552	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Total PCDF (ND = 0)	19	100	--	--	0.00017231	0.571552	SB-36	LSP0548	Historical creek	--	--	--	--	--	--	--	--	--	--
Liquid Limit	4	100	--	--	140	68.9	SB-02	LSP0132	Lower creek	--	--	--	--	--	--	--	--	--	--
Percent Moisture	14	93	0.1	0.1	160.6	99.5	SB-38	LSP0557	Historical creek	--	--	--	--	--	--	--	--	--	--
Plastic Limit	4	100	--	--	19.8	86	SB-38	LSP0560	Historical creek	--	--	--	--	--	--	--	--	--	--
Plasticity Index	4	100	--	--	14.65	54	SB-38	LSP0560	Historical creek	--	--	--	--	--	--	--	--	--	--
Specific Gravity	6	100	--	--	2.13	2.6	SB-38	LSP0559	Historical creek	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	11	100	--	--	110000	7500	SD03	99070522	Lower creek	--	--	--	--	--	--	--	--	--	--
Total Organic Carbon	22	100	--	--	0.326	9.74	SB-02	LSP0127	Lower creek	--	--	--	--	--	--	--	--	--	--
Total Solids	36	100	--	--	19	87.5	SD10	99070529	Upper creek	--	--	--	--	--	--	--	--	--	--

Notes: -- = No data

Table G-3. Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Barium	29	100	--	--	10.5	35.3	SW-05	99504858	Upper creek	4	0.0	--	8.8	0
Barium dissolved	3	100	--	--	20.7	22	OS03	95372613	Upper creek	4	0.0	--	5.5	0
Copper dissolved	23	96	3	3	1.3	9.3	SW-04	LSP0003	Upper creek	9	0.3	0.0	1.0	0.045454545
Copper	49	76	3	4.1	0.74	9.55	SW-01	LSP0001	Lower creek	9	0.5	0.0	1.1	0.027027027
Lead	49	57	0.1	2.48	0.13	8	SW-09	LSP0002	Lower creek	2.5	1.0	0.0	3.2	0.178571429
Magnesium	49	100	--	--	10200	9710	SW-07	LSP0007	Wetlands	647	0.0	--	15.0	0.326530612
Magnesium dissolved	23	100	--	--	10000	9470	SW-07	LSP0589	Wetlands	647	0.0	--	14.6	0.173913043
Anthracene	43	47	0.0049	0.42	0.0066	0.9	OS01	95372614	Beach	0.73	0.6	0.0	1.2	0.05
Benzo(a)anthracene	43	12	0.0047	0.45	0.015	0.058	SW-05	99504858	Upper creek	0.027	16.7	0.6	2.1	0.4
Benzo(a)pyrene	43	28	0.0047	0.45	0.0053	0.2	SW-08	99504856	Upper creek	0.014	32.1	0.7	14.3	0.833333333
Pyrene	43	47	0.0047	0.45	0.0045	0.75	SW-05	LSP0004	Upper creek	0.3	1.5	0.9	2.5	0.05
2,3,4,6-Tetrachlorophenol	18	6	1.7	5	7.7	7.7	SW-05	LSP0004	Upper creek	1.2	4.2	1.0	6.4	1
2,3,7,8-TCDD	22	5	0.0000027	0.000019	0.0000074	0.0000074	SW-05	LSP0004	Upper creek	0.000000003	6333.3	1.0	2466.7	1
TEQDF B1	22	77	0.0000183	0.0000637	1.051E-05	0.00027732	SW-05	LSP0004	Upper creek	0.000000003	21233.3	1.0	92440.0	1
TEQDF F1	22	77	0.0000183	0.0000637	8.3911E-06	0.00030195	SW-05	LSP0004	Upper creek	0.000000003	21233.3	1.0	100649.2	1
TEQDF 0.5M98	22	77	0.0000183	0.0000637	7.8537E-06	0.0005281	SW-05	LSP0004	Upper creek	0.000000003	21233.3	1.0	176033.3	1
TEQDF 0.5M05	22	77	0.0000183	0.0000637	7.3647E-06	0.00057681	SW-05	LSP0004	Upper creek	0.000000003	21233.3	1.0	192270.0	1
Alkalinity	16	100	--	--	117000	99000	SW-01	99504000	Lower creek	20000	0.0	--	5.0	0.5625
Aluminum	29	72	20	9.14	12	61	OS02	95372616	Lower creek	87	0.1	0.3	0.7	0
Antimony	29	48	0.5	40	0.53	1.3	SW-06	99314155	Upper creek	30	1.3	0.3	0.0	0
Arsenic	49	92	1	1.5	0.2	3.2	SW-11; SW-11	LSP0599; LSP0599	Historical creek; Upper creek	190	0.0	0.0	0.0	0.066666667
Arsenic dissolved	23	87	1	1	0.2	1.7	SW-11; SW-11	LSP0599; LSP0599	Historical creek; Upper creek	190	0.0	0.0	0.0	0
Cadmium	49	16	0.02	2	0.042	0.21	SW-08	99504856	Upper creek	0.25	8.0	0.1	0.8	0
Chromium dissolved	23	35	0.2	5	0.6	2.7	SW Reference	LSP0582	Background	42	0.1	0.2	0.1	0
Chromium	49	18	0.2	5.1	0.6	5.3	SW-04	LSP0003	Upper creek	42	0.1	0.6	0.1	0.111111111
Cobalt	29	24	10	5.1	0.081	0.28	SW-06	99314155	Upper creek	23	0.2	0.8	0.0	0
Iron	29	79	10	10	103	82	SW-07	99504862	Wetlands	1000	0.0	0.0	0.1	1
Iron dissolved	3	67	10	10	37.3	61.1	OS02	95372617	Lower creek	1000	0.0	0.0	0.1	1
Lead dissolved	23	9	0.4	0.5	1	1	SW-11; SW-11	LSP0599; LSP0599	Historical creek; Upper creek	2.5	0.2	0.0	0.4	0
Manganese dissolved	3	100	--	--	49	71.8	OS03	95372613	Upper creek	120	0.0	--	0.6	1
Manganese	29	93	0.1	1	1	83	SW-05	99504858	Upper creek	120	0.0	0.0	0.7	0.925925926
Nickel dissolved	23	87	10	10	0.75	3.85	SW-06	LSP0586	Upper creek	52	0.2	0.0	0.1	0
Nickel	49	55	10	10	0.95	4.85	SW-05	LSP0004	Upper creek	52	0.2	0.0	0.1	0
Selenium	29	14	1	2	1	1.3	SW-06	99314155	Upper creek	5	0.4	0.0	0.3	0
Vanadium	29	31	3	3.1	0.36	5.6	SW-08	99504856	Upper creek	20	0.2	1.0	0.3	0.222222222
Zinc	49	84	2	4	10	98	SW-04	LSP0003	Upper creek	120	0.0	1.0	0.8	0.87804878
Zinc dissolved	23	74	2	4	10	9	SW-07	LSP0007	Wetlands	120	0.0	0.0	0.1	0.882352941
Benzene	19	5	0.02	1	0.15	0.15	SW-05	99504858	Upper creek	130	0.0	0.0	0.0	0
Chloroform	16	44	0.02	0.4	0.015	0.42	SW-06	99504860	Upper creek	28	0.0	0.0	0.0	0
Methyl tert-butyl Ether	16	44	5	5	2.4	3.4	SW-04; SW-05	99314153; 99314154	Upper creek; Upper creek	11070	0.0	1.0	0.0	1
Total Xylenes (ND = 1/2 DL)	19	42	0.04	1	0.208	1.18	SW-05	99314154	Upper creek	13	0.1	0.0	0.1	0
Total Xylenes (ND = 0)	19	42	0.04	1	0.208	0.78	SW-05	99314154	Upper creek	13	0.1	0.0	0.1	0
Toluene	19	11	0.4	1	0.051	0.08	SW-06	99314155	Upper creek	9.8	0.1	0.0	0.0	0
m&p-Xylene	19	5	0.04	1	0.12	0.12	SW-05	99504858	Upper creek	1.8	0.6	0.0	0.1	0
Benzoic Acid	33	3	0.047	4.5	0.077	0.077	SW-04	99314153	Upper creek	42	0.1	0.0	0.0	0
Benzyl Alcohol	43	7	0.024	0.51	0.0074	0.11	SW-08	99504856	Upper creek	8.6	0.1	0.0	0.0	0
Bis(2-ethylhexyl)phthalate	43	2	0.052	1.8	1.2	1.2	343	97040343	Upper creek	3	0.6	0.0	0.4	0
4-Chloroaniline	43	2	0.024	1.1	0.042	0.042	SW-08	99504856	Upper creek	232	0.0	0.0	0.0	0
Dibenzofuran	43	14	0.024	0.5	0.0038	0.074	SW-05	99504858	Upper creek	3.7	0.1	0.0	0.0	0
2,4-Dichlorophenol	43	2	0.024	0.5	0.0077	0.0077	SW-05	99314154	Upper creek	11	0.0	0.0	0.0	0
2,4-Dimethylphenol	43	2	0.024	0.5	0.15	0.15	SW-05	99314154	Upper creek	100	0.0	0.0	0.0	0
Dimethylphthalate	43	2	0.0061	0.5	1.3	1.3	SW-04	LSP0003	Upper creek	1.65	0.3	0.0	0.8	0
di-n-Butylphthalate	43	5	0.036	1.6	0.4	0.5	SW-04	99314153	Upper creek	35	0.0	0.0	0.0	0
2-Methylphenol	43	2	0.024	0.5	0.3	0.3	SW-05	99314154	Upper creek	13	0.0	0.0	0.0	0
3&4-Methylphenol	18	11	0.024	0.48	0.0087	0.016	SW-05	99314154	Upper creek	62	0.0	0.0	0.0	0
4-Methylphenol	25	4	0.13	0.5	6.5	6.5	OS07	95352507	Wetlands	25	0.0	0.0	0.3	1
Pentachlorophenol	43	37	0.024	2.2	0.027	8.5	SW-02	99504004	Upper creek	15	0.1	0.1	0.6	0.25
Phenol	43	9	0.024	0.5	0.058	2.6	OS07	95352507	Wetlands	110	0.0	0.0	0.0	0.25
Acenaphthene	43	30	0.0047	0.47	0.018	0.12	SW-05	99504858	Upper creek	23	0.0	0.0	0.0	0
Acenaphthylene	43	12	0.0047	0.45	0.0058	0.05	SW-05	99504858	Upper creek	4840	0.0	0.0	0.0	0
Fluorene	43	19	0.0047	0.45	0.0048	0.19	SW-05	99504858	Upper creek	3.9	0.1	0.0	0.0	0
Naphthalene	43	21	0.0047	0.46	0.0063	0.18	SW-05	99504858	Upper creek	12	0.0	0.0	0.0	0
Phenanthrene	43	42	0.0049	0.45	0.0099	0.19	SW-05	99504858	Upper creek	3.6	0.1	0.0	0.1	0
2-Methylnaphthalene	43	12	0.0047	0.48	0.0051	0.26	SW-05	99504858	Upper creek	130	0.0	0.0	0.0	0
Benzo(b)fluoranthene	34	12	0.0048	0.45	0.0072	0.8	SW-05	LSP0004	Upper creek	9.07	0.0	0.0	0.1	0

Table G-3. Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Chrysene	43	28	0.0047	0.45	0.0053	1.7	OS01	95372614	Beach	7	0.1	0.0	0.2	0
Dibenzo(a,h)anthracene	43	2	0.0047	0.45	0.023	0.023	SW-08	99504856	Upper creek	4	0.1	0.0	0.0	0
Fluoranthene	43	51	0.0047	0.45	0.0038	1.35	SW-05	LSP0004	Upper creek	1.9	0.2	0.0	0.7	0
Indeno(1,2,3-cd)pyrene	43	16	0.0047	0.45	0.0073	0.3	SW-05	LSP0004	Upper creek	4.31	0.1	0.0	0.1	0
Benzo(g,h,i)perylene	43	12	0.0047	0.45	0.02	0.35	SW-08	99504856	Upper creek	7.64	0.1	0.0	0.0	0
Chloride	16	100	--	--	11000	9660	SW-08	99504856	Upper creek	230000	0.0	--	0.0	0.5625
Aluminum dissolved	3	0	20	20	--	--	--	--	--	87	0.2	0.0	0.0	--
Antimony dissolved	3	0	40	40	--	--	--	--	--	30	1.3	1.0	0.0	--
Beryllium	29	0	0.04	1	--	--	--	--	--	0.66	1.5	0.6	0.0	--
Beryllium dissolved	3	0	0.5	0.5	--	--	--	--	--	0.66	0.8	0.0	0.0	--
Cadmium dissolved	23	0	0.02	2	--	--	--	--	--	0.25	8.0	0.1	0.0	--
Cobalt dissolved	3	0	10	10	--	--	--	--	--	23	0.4	0.0	0.0	--
Mercury	42	0	0.004	0.2	--	--	--	--	--	0.012	16.7	0.5	0.0	--
Mercury dissolved	23	0	0.004	0.2	--	--	--	--	--	0.012	16.7	0.1	0.0	--
Selenium dissolved	3	0	2	2	--	--	--	--	--	5	0.4	0.0	0.0	--
Silver dissolved	23	0	0.01	3	--	--	--	--	--	0.36	8.3	0.1	0.0	--
Silver	49	0	0.01	4.1	--	--	--	--	--	0.36	11.4	0.4	0.0	--
Thallium dissolved	3	0	1	1	--	--	--	--	--	12	0.1	0.0	0.0	--
Thallium	29	0	0.5	2.5	--	--	--	--	--	12	0.2	0.0	0.0	--
Vanadium dissolved	3	0	3	3	--	--	--	--	--	20	0.2	1.0	0.0	--
Acetone	3	0	4	4	--	--	--	--	--	1500	0.0	1.0	0.0	--
Bromodichloromethane	16	0	0.4	1	--	--	--	--	--	4320	0.0	0.0	0.0	--
Bromoform	16	0	0.4	1	--	--	--	--	--	320	0.0	0.0	0.0	--
Bromomethane	16	0	0.4	2	--	--	--	--	--	16	0.1	0.6	0.0	--
2-Butanone	9	0	2	4	--	--	--	--	--	14000	0.0	1.0	0.0	--
n-Butylbenzene	16	0	0.4	1	--	--	--	--	--	71	0.0	0.0	0.0	--
sec-Butylbenzene	16	0	0.4	1	--	--	--	--	--	82	0.0	0.0	0.0	--
tert-Butylbenzene	16	0	0.4	2	--	--	--	--	--	48	0.0	0.0	0.0	--
Carbon Disulfide	9	0	2	2	--	--	--	--	--	0.92	2.2	1.0	0.0	--
Carbon Tetrachloride	16	0	0.4	1	--	--	--	--	--	9.8	0.1	0.0	0.0	--
Chlorobenzene	16	0	0.4	1	--	--	--	--	--	64	0.0	0.0	0.0	--
Chloromethane	16	0	0.4	2	--	--	--	--	--	55000	0.0	0.0	0.0	--
Dibromochloromethane	16	0	0.4	1	--	--	--	--	--	9.7	0.1	0.0	0.0	--
Dichlorodifluoromethane	16	0	0.4	1	--	--	--	--	--	1960	0.0	0.0	0.0	--
1,1-Dichloroethane	16	0	0.02	1	--	--	--	--	--	47	0.0	0.0	0.0	--
1,2-Dichloroethane	16	0	0.02	0.4	--	--	--	--	--	910	0.0	0.0	0.0	--
1,1-Dichloroethene	16	0	0.02	1	--	--	--	--	--	25	0.0	0.0	0.0	--
1,2-Dichloroethene (ND = 1/2 DL)	16	0	0.4	2	--	--	--	--	--	590	0.0	0.0	0.0	--
trans-1,2-Dichloroethene	16	0	0.4	2	--	--	--	--	--	970	0.0	0.0	0.0	--
1,2-Dichloroethene (ND = 0)	16	0	0.4	2	--	--	--	--	--	590	0.0	0.0	0.0	--
1,2-Dichloropropane	16	0	0.4	1	--	--	--	--	--	360	0.0	0.0	0.0	--
1,3-Dichloropropene (ND = 1/2 DL)	16	0	0.4	1.1	--	--	--	--	--	0.055	20.0	1.0	0.0	--
1,3-Dichloropropene (ND = 0)	16	0	0.4	1.1	--	--	--	--	--	0.055	20.0	1.0	0.0	--
Ethylbenzene	19	0	0.4	1	--	--	--	--	--	7.3	0.1	0.0	0.0	--
Fluorotrichloromethane	16	0	0.4	5	--	--	--	--	--	1740	0.0	0.1	0.0	--
2-Hexanone	9	0	10	2	--	--	--	--	--	99	0.0	0.0	0.0	--
Isopropylbenzene	16	0	0.4	1	--	--	--	--	--	255	0.0	0.0	0.0	--
p-Isopropyltoluene	16	0	0.4	1	--	--	--	--	--	85	0.0	0.0	0.0	--
4-Methyl-2-pentanone	9	0	2	4	--	--	--	--	--	170	0.0	1.0	0.0	--
Methylene Chloride	16	0	0.4	2	--	--	--	--	--	2200	0.0	0.0	0.0	--
Pentachloroethane	9	0	1	2	--	--	--	--	--	56.4	0.0	0.0	0.0	--
n-Propylbenzene	16	0	0.4	1	--	--	--	--	--	128	0.0	0.0	0.0	--
Styrene	16	0	0.4	2	--	--	--	--	--	32	0.1	0.0	0.0	--
1,1,2,2-Tetrachloroethane	16	0	0.4	1	--	--	--	--	--	610	0.0	0.0	0.0	--
Tetrachloroethene	16	0	0.02	2	--	--	--	--	--	98	0.0	0.0	0.0	--
1,1,2-Trichloro-1,2,2-trifluoroethane	9	0	1	1	--	--	--	--	--	413	0.0	0.0	0.0	--
1,1,1-Trichloroethane	16	0	0.4	1	--	--	--	--	--	11	0.1	0.0	0.0	--
1,1,2-Trichloroethane	16	0	0.4	1	--	--	--	--	--	1200	0.0	0.0	0.0	--
Trichloroethene	16	0	0.4	1	--	--	--	--	--	47	0.0	0.0	0.0	--
1,2,4-Trimethylbenzene	16	0	0.4	1	--	--	--	--	--	77	0.0	0.0	0.0	--
1,3,5-Trimethylbenzene	16	0	0.4	1	--	--	--	--	--	71	0.0	0.0	0.0	--
Vinyl Chloride	16	0	0.4	1	--	--	--	--	--	930	0.0	0.0	0.0	--
Aniline	25	0	0.42	0.6	--	--	--	--	--	4.1	0.1	0.0	0.0	--
Benzidine	21	0	0.84	4.2	--	--	--	--	--	3.9	1.1	0.8	0.0	--
Bis-(2-chloroethyl) Ether	43	0	0.024	0.5	--	--	--	--	--	12000	0.0	0.0	0.0	--
4-Bromophenyl-phenylether	43	0	0.024	0.5	--	--	--	--	--	1.5	0.3	0.0	0.0	--

Table G-3. Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Butylbenzylphthalate	43	0	0.024	2	--	--	--	--	--	19	0.1	0.1	0.0	--
4-Chloro-3-methylphenol	43	0	0.024	0.5	--	--	--	--	--	0.3	1.7	0.2	0.0	--
2-Chloronaphthalene	42	0	0.0094	0.5	--	--	--	--	--	0.396	1.3	0.6	0.0	--
2-Chlorophenol	43	0	0.0042	0.5	--	--	--	--	--	24	0.0	0.0	0.0	--
1,2-Dichlorobenzene	43	0	0.024	0.5	--	--	--	--	--	14	0.0	0.0	0.0	--
1,3-Dichlorobenzene	43	0	0.024	0.5	--	--	--	--	--	71	0.0	0.0	0.0	--
1,4-Dichlorobenzene	43	0	0.024	0.5	--	--	--	--	--	15	0.0	0.0	0.0	--
3,3'-Dichlorobenzidine	43	0	0.024	2	--	--	--	--	--	4.5	0.4	0.0	0.0	--
Diethylphthalate	43	0	0.024	0.5	--	--	--	--	--	210	0.0	0.0	0.0	--
4,6-Dinitro-2-methylphenol	43	0	0.024	4.5	--	--	--	--	--	23	0.2	0.1	0.0	--
2,4-Dinitrophenol	43	0	0.024	2	--	--	--	--	--	19	0.1	0.1	0.0	--
2,4-Dinitrotoluene	43	0	0.024	2	--	--	--	--	--	44	0.0	0.0	0.0	--
2,6-Dinitrotoluene	43	0	0.024	2	--	--	--	--	--	81	0.0	0.0	0.0	--
di-n-Octylphthalate	43	0	0.0099	2	--	--	--	--	--	22	0.1	0.0	0.0	--
1,2-Diphenylhydrazine	22	0	0.4	0.45	--	--	--	--	--	23	0.0	0.0	0.0	--
Hexachlorobenzene	43	0	0.024	0.5	--	--	--	--	--	0.0003	1666.7	1.0	0.0	--
Hexachlorobutadiene	43	0	0.024	0.54	--	--	--	--	--	0.053	10.2	0.6	0.0	--
Hexachlorocyclopentadiene	42	0	0.024	2.2	--	--	--	--	--	0.07	31.4	0.6	0.0	--
Hexachloroethane	43	0	0.024	0.5	--	--	--	--	--	12	0.0	0.0	0.0	--
Isophorone	43	0	0.024	0.5	--	--	--	--	--	920	0.0	0.0	0.0	--
1-Methylnaphthalene	18	0	0.5	0.5	--	--	--	--	--	2.1	0.2	0.0	0.0	--
Nitrobenzene	43	0	0.024	0.5	--	--	--	--	--	220	0.0	0.0	0.0	--
2-Nitrophenol	43	0	0.024	0.5	--	--	--	--	--	1920	0.0	0.0	0.0	--
4-Nitrophenol	43	0	0.024	2	--	--	--	--	--	300	0.0	0.0	0.0	--
n-Nitrosodimethylamine	22	0	0.84	1.3	--	--	--	--	--	94000	0.0	0.0	0.0	--
N-nitrosodiphenylamine	43	0	0.024	0.5	--	--	--	--	--	210	0.0	0.0	0.0	--
n-Nitroso-di-n-propylamine	43	0	0.024	0.5	--	--	--	--	--	20	0.0	0.0	0.0	--
Pyridine	22	0	0.42	5	--	--	--	--	--	2380	0.0	0.8	0.0	--
1,2,4-Trichlorobenzene	43	0	0.024	0.5	--	--	--	--	--	110	0.0	0.0	0.0	--
2,4,5-Trichlorophenol	43	0	0.024	0.5	--	--	--	--	--	64	0.0	0.0	0.0	--
2,4,6-Trichlorophenol	43	0	0.024	0.5	--	--	--	--	--	4.9	0.1	0.0	0.0	--
7,12-Dimethylbenz(a)anthracene	36	0	0.0047	1	--	--	--	--	--	0.548	1.8	0.2	0.0	--
Calcium dissolved	23	100	--	--	10400	7790	SW Reference	LSP0582	Background	--	--	--	--	--
Calcium	49	100	--	--	10100	7800	SW Reference	LSP0582	Background	--	--	--	--	--
Potassium	29	100	--	--	1100	4770	SW-05	99504859	Upper creek	--	--	--	--	--
Potassium dissolved	3	100	--	--	1700	2570	OS01	95372615	Beach	--	--	--	--	--
Sodium	29	100	--	--	10900	8270	SW-01	99504000	Lower creek	--	--	--	--	--
Sodium dissolved	3	100	--	--	17800	18900	OS03	95372613	Upper creek	--	--	--	--	--
o-Xylene	19	42	0.02	1	0.088	0.78	SW-05	99314154	Upper creek	--	--	--	--	--
Carbazole	34	6	0.047	0.5	0.036	0.075	SW-05	99504858	Upper creek	--	--	--	--	--
2,3,5,6-Tetrachlorophenol	18	6	1.2	5	1	1	SW-05	LSP0004	Upper creek	--	--	--	--	--
Tetrachlorophenols	15	40	0.0094	0.48	0.0083	1	SW-05	99504858	Upper creek	--	--	--	--	--
Benzo(k)fluoranthene	34	6	0.0048	0.72	0.04	0.6	SW-05	LSP0004	Upper creek	--	--	--	--	--
Benzo(a)fluoranthene	9	33	0.0047	0.0053	0.024	0.21	SW-08	99504856	Upper creek	--	--	--	--	--
LPAAH (ND = 1/2 DL)	43	51	0.0049	0.47	0.02445	1.85	OS01	95372614	Beach	--	--	--	--	--
Total Benzo(a)fluoranthenes (ND = 0)	34	12	0.0048	0.72	0.0072	1.4	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total Benzo(a)fluoranthenes (ND = 1/2 DL)	34	12	0.0048	0.72	0.0265	1.4	SW-05	LSP0004	Upper creek	--	--	--	--	--
HPAAH (ND = 1/2 DL)	43	53	0.0047	0.72	0.0379	5.16	SW-05	LSP0004	Upper creek	--	--	--	--	--
TPAAHs (ND = 1/2 DL)	43	60	0.48	0.72	0.0732	6.605	SW-05	LSP0004	Upper creek	--	--	--	--	--
Motor Oil	20	5	500	500	700	700	SW-04	LSP0003	Upper creek	--	--	--	--	--
C21-C34 Aliphatics	17	29	120	50	110	87	SW-06	99504860	Upper creek	--	--	--	--	--
C8-C10 Aromatics	16	6	25	25	7.9	7.9	SW-03	99314152	Upper creek	--	--	--	--	--
C10-C12 Aromatics	17	6	47	50	38	38	SEEP-1	99244027	Upper creek	--	--	--	--	--
C16-C21 Aromatics	17	6	47	50	58	58	SW-05	99504858	Upper creek	--	--	--	--	--
C21-C34 Aromatics	17	6	47	50	52	52	SW-08	99504856	Upper creek	--	--	--	--	--
Total TCDD	22	9	0.0000027	0.000019	0.00000925	0.00000933	SW-05	99314154	Upper creek	--	--	--	--	--
1,2,3,7,8-PeCDD	22	5	0.0000043	0.0000224	0.0000585	0.0000585	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PeCDD	14	7	0.0000049	0.0000177	0.00013	0.00013	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,4,7,8-HxCDD	22	5	0.0000028	0.0000192	0.00017	0.00017	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,6,7,8-HxCDD	22	27	0.0000038	0.0000146	0.000026	0.000026	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,7,8,9-HxCDD	22	9	0.00000436	0.0000441	0.0000539	0.0000335	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total HxCDD	14	50	0.0000038	0.000011	0.0000154	0.0000154	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	22	59	0.00000355	0.0000174	0.0000189	0.0225	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total HpCDD	14	71	0.00000355	0.000014	0.0000345	0.0395	SW-05	LSP0004	Upper creek	--	--	--	--	--
OCDD	22	77	0.0000126	0.0000637	0.000078	0.245	SW-05	LSP0004	Upper creek	--	--	--	--	--
2,3,7,8-TCDF	22	5	0.0000018	0.000018	0.00000605	0.00000605	SW-05	LSP0004	Upper creek	--	--	--	--	--

Table G-3. Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
Total TCDF	22	5	0.000022	0.000018	0.0000495	0.0000495	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,7,8-PeCDF	22	5	0.000029	0.0000345	0.0000295	0.0000295	SW-05	LSP0004	Upper creek	--	--	--	--	--
2,3,4,7,8-PeCDF	22	5	0.000029	0.0000348	0.000029	0.000029	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PeCDF	14	21	0.0000036	0.000011	0.0000697	0.000034	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,4,7,8-HxCDF	22	5	0.0000239	0.00018	0.00014	0.00014	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,6,7,8-HxCDF	22	5	0.0000179	0.0000797	0.0000995	0.0000995	SW-05	LSP0004	Upper creek	--	--	--	--	--
2,3,4,6,7,8-HxCDF	22	5	0.0000209	0.0000932	0.000054	0.000054	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total HxCDF	14	36	0.0000179	0.000029	0.0000688	0.00395	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	22	36	0.0000247	0.0000576	0.0000188	0.00415	SW-05	LSP0004	Upper creek	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	22	5	0.0000348	0.0000396	0.00034	0.00034	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total HpCDF	14	50	0.0000247	0.000016	0.000279	0.02	SW-05	LSP0004	Upper creek	--	--	--	--	--
OCDF	22	59	0.0000346	0.000031	0.0000255	0.0305	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PCDD (ND = 0)	22	77	0.0000183	0.0000637	0.000078	0.28778925	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PCDD (ND = 1/2 DL)	22	77	0.0000183	0.0000637	0.00010115	0.28778925	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PCDF (ND = 1/2 DL)	22	59	0.0000425	0.000031	3.3225E-05	0.0548395	SW-05	LSP0004	Upper creek	--	--	--	--	--
Total PCDF (ND = 0)	22	59	0.0000425	0.000031	0.0000255	0.0548395	SW-05	LSP0004	Upper creek	--	--	--	--	--
Bromide	16	13	200	200	204	209	SW-02	99314151	Upper creek	--	--	--	--	--
Chemical Oxygen Demand	17	47	5000	5000	11000	9000	SW-06	99314155	Upper creek	--	--	--	--	--
Fluoride	16	100	--	--	46	99	SW-06; SW-01	99314155; 99504000	Lower creek; Upper creek	--	--	--	--	--
Hardness dissolved	20	100	--	--	130000	81000	SW-11; SW-11	LSP0599; LSP0599	Historical creek; Upper creek	--	--	--	--	--
Hardness	36	100	--	--	117000	97800	SW-04	99504006	Upper creek	--	--	--	--	--
Nitrate+Nitrite	16	100	--	--	1030	964	SW-04	99504006	Upper creek	--	--	--	--	--
Sulfate	16	100	--	--	11200	33700	SW-01	99504000	Lower creek	--	--	--	--	--
Total Dissolved Solids	16	100	--	--	120000	227000	SW-02	99314151	Upper creek	--	--	--	--	--
Total Organic Carbon	36	100	--	--	10000	9990	SW-06	LSP0006	Upper creek	--	--	--	--	--
Total Suspended Solids	36	67	1100	2500	1100	8230	SW-04	99504006	Upper creek	--	--	--	--	--
Bromobenzene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
Chloroethane	16	0	0.4	2	--	--	--	--	--	--	--	--	--	--
2-Chlorotoluene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	16	0	0.05	0.4	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
Dibromomethane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
1,3-Dichloropropane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
2,2-Dichloropropane	9	0	1	2	--	--	--	--	--	--	--	--	--	--
1,1-Dichloropropene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	16	0	0.4	1.1	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	16	0	0.4	0.94	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroethoxy) Methane	43	0	0.024	0.5	--	--	--	--	--	--	--	--	--	--
Bis(2-chloroisopropyl)ether	25	0	0.024	0.5	--	--	--	--	--	--	--	--	--	--
Bis(2-chloro-1-methylethyl) Ether	18	0	0.44	0.44	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-phenylether	43	0	0.024	0.52	--	--	--	--	--	--	--	--	--	--
7H-Dibenzo(c,g)carbazole	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	43	0	0.024	0.83	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	43	0	0.024	2	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	43	0	0.024	2	--	--	--	--	--	--	--	--	--	--
1-Nitropyrene	10	0	0.0047	0.0053	--	--	--	--	--	--	--	--	--	--
2,3,4,5-Tetrachlorophenol	18	0	2.5	5	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	16	0	0.4	1	--	--	--	--	--	--	--	--	--	--
Benzo(j)fluoranthene	9	0	0.0048	0.1	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)acridine	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,i)acridine	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,e)pyrene	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)pyrene	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,i)pyrene	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,l)pyrene	18	0	0.0047	0.01	--	--	--	--	--	--	--	--	--	--
Gasoline Range Hydrocarbons	23	0	100	70	--	--	--	--	--	--	--	--	--	--
Diesel Range Hydrocarbons	23	0	20	500	--	--	--	--	--	--	--	--	--	--
C5-C6 Aliphatics	16	0	15	15	--	--	--	--	--	--	--	--	--	--
C6-C8 Aliphatics	16	0	10	10	--	--	--	--	--	--	--	--	--	--
C8-C10 Aliphatics	16	0	30	30	--	--	--	--	--	--	--	--	--	--

Table G-3. Comparison of Maximum Concentrations of LSP Site Water Samples to EICs for Surface Water.

Analyte	n	Percent Detected	Min. DL	Max. DL	Min. Det. Value	Max. Det. Value	Location of Max. Det. Value	Max. Detected Sample ID	Area	Screening Against Sediment EICs				
										EIC	Ratio of Maximum DL to EIC	Frequency of DL Exceedance	Max. Det. Value/EIC	Frequency of Detected Exceedance
C10-C12 Aliphatics	17	0	24	50	--	--	--	--	--	--	--	--	--	--
C12-C16 Aliphatics	17	0	24	50	--	--	--	--	--	--	--	--	--	--
C16-C21 Aliphatics	17	0	47	50	--	--	--	--	--	--	--	--	--	--
C12-C16 Aromatics	17	0	24	50	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8,9-HxCDF	22	0	0.0000022	0.000126	--	--	--	--	--	--	--	--	--	--
Biochemical Oxygen Demand	7	0	2400	2400	--	--	--	--	--	--	--	--	--	--

Notes: -- = No data

Table G-4. Soil Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				Soil EICs and HQs						Potential COPEC ^b	
		n	Mean	SD	EPC ^a	Plant	PlantHQ	Invert.	Invert.HQ	Wildlife	Wildlife HQ		
South Slope	Aluminum	5	2.5E+04	3.0E+03	2.8E+04	50	5.6E+02						*
	Antimony	5	1.6	8.4E-02	1.7	5	3.4E-01						--
	Arsenic	7	8.2	3.1	1.0E+01	10	1.0	60	1.7E-01	7	1.5		*
	Cadmium	5	9.5E-01	1.0E-01	1.1	4	2.6E-01	20	5.3E-02	14	7.5E-02		--
	Chromium	7	4.7E+01	7.6	5.2E+01	42	1.2	42	1.2	67	7.8E-01		*
	Copper	5	3.1E+01	7.7	3.9E+01	100	3.9E-01	50	7.7E-01	217	1.8E-01		--
	Lead	5	3.2E+01	1.2E+01	4.3E+01	50	8.7E-01	500	8.7E-02	118	3.7E-01		--
	Mercury	5	1.1E-01	5.2E-02	1.5E-01	0.3	5.0E-01	0.1	1.5	5.5	2.7E-02		*
	Nickel	5	4.3E+01	4.0E+00	4.7E+01	30	1.6	20	2.3	980	4.8E-02		*
	Selenium	5	2.3	9.3E-01	3.2	1	3.2	70	4.5E-02	0.3	1.1E+01		*
	Vanadium	5	7.1E+01	6.9	7.7E+01	2	3.9E+01						*
	Zinc	5	1.3E+02	3.4E+01	1.6E+02	86	1.9	200	8.1E-01	360	4.5E-01		*
	Acenaphthene	7	2.4E-02	4.0E-02	9.6E-02	20	4.8E-03						--
	Acenaphthylene	7	2.4E-02	4.0E-02	9.6E-02								--
	Anthracene	7	2.4E-02	4.0E-02	9.6E-02								--
	Fluorene	7	2.4E-02	4.0E-02	9.6E-02			30	3.2E-03				--
	Naphthalene	7	3.3E-02	4.5E-02	1.0E-01								--
	Phenanthrene	7	2.9E-02	3.8E-02	9.6E-02								--
	2-Methylnaphthalene	7	3.8E-02	5.7E-02	1.4E-01								--
	Benz[a]anthracene	7	2.6E-02	3.9E-02	9.6E-02								--
	Benzo[a]pyrene	7	4.8E-02	7.9E-02	1.9E-01					12	1.6E-02		--
	Chrysene	7	2.7E-02	3.6E-02	9.6E-02								--
	Dibenz[ah]anthracene	7	4.7E-02	8.0E-02	1.9E-01								--
	2,4-Dimethylphenol	7	2.7E-02	3.8E-02	9.6E-02								--
	2-Methylphenol	7	2.7E-02	3.8E-02	9.6E-02								--
	Phenol	7	2.7E-02	3.8E-02	9.6E-02	70	1.4E-03	30	3.2E-03				--
	Pentachlorophenol	7	1.2E-01	2.0E-01	4.8E-01	3	1.6E-01	6	7.9E-02	4.5	1.1E-01		--
	Bis[2-ethylhexyl]phthalate	7	1.8E-01	1.7E-01	3.1E-01								--
	Butylbenzylphthalate	7	5.7E-02	7.5E-02	1.9E-01								--
	Dimethylphthalate	7	7.7E-02	4.0E-02	1.1E-01			200	5.3E-04				--
	BenzoicAcid	7	2.1E-01	3.9E-01	1.1								--
	BenzylAlcohol	7	1.2E-01	2.0E-01	4.8E-01								--
	Dibenzofuran	7	2.3E-02	3.4E-02	9.6E-02								--
Upper Creek	Aluminum	11	1.8E+04	4.1E+03	2.0E+04	50	4.0E+02						*
	Antimony	11	4.9	1.0E+01	1.1E+01	5	2.3						*
	Arsenic	25	1.1E+01	2.9E+01	2.1E+01	10	2.1	60	3.5E-01	7	3.0		*
	Cadmium	24	5.1E-01	4.6E-01	1.5	4	3.8E-01	20	7.5E-02	14	1.1E-01		--
	Chromium	25	3.9E+01	1.0E+01	4.3E+01	42	1.0	42	1.0	67	6.4E-01		*
	Copper	24	4.1E+01	2.1E+01	4.9E+01	100	4.9E-01	50	9.9E-01	217	2.3E-01		--
	Lead	24	3.5E+01	4.2E+01	5.4E+01	50	1.1	500	1.1E-01	118	4.6E-01		*
	Mercury	24	1.0E-01	7.9E-02	3.3E-01	0.3	1.1	0.1	3.3	5.5	6.0E-02		*
	Nickel	23	3.8E+01	8.0	4.1E+01	30	1.4	20	2.1	980	4.2E-02		*
	Selenium	11	1.8	5.9E-01	2.1	1	2.1	70	3.0E-02	0.3	6.9		*
	Vanadium	11	5.8E+01	1.1E+01	6.4E+01	2	3.2E+01						*
	Zinc	24	1.4E+02	1.4E+02	1.8E+02	86	2.1	200	8.8E-01	360	4.9E-01		*
	Acenaphthene	15	4.9	1.9E+01	7.2E+01	20	3.6						*
	Acenaphthylene	15	4.5E-01	7.8E-01	3.0								--
	Anthracene	15	7.0	2.0E+01	7.8E+01								--
	Fluorene	15	4.0	1.5E+01	5.7E+01			30	1.9				*
	Naphthalene	15	4.5E-01	1.4	4.1								--
	Phenanthrene	15	1.4E+01	5.2E+01	2.0E+02								--
	2-Methylnaphthalene	15	8.0E-01	2.8	7.0								--
	Benz[a]anthracene	15	6.2	1.4E+01	5.1E+01								--
	Benzo[a]pyrene	15	1.1E+01	2.9E+01	1.1E+02					12	9.2		*
	Chrysene	15	1.8E+01	3.5E+01	1.2E+02								--
	Dibenz[ah]anthracene	15	3.0	1.0E+01	3.9E+01								--
	2,4-Dimethylphenol	15	3.0E-02	3.5E-02	8.6E-02								--
	2-Methylphenol	15	4.3E-02	7.0E-02	1.5E-01								--
	Phenol	15	7.3E-02	1.3E-01	3.8E-01	70	5.5E-03	30	1.3E-02				--
	Pentachlorophenol	15	6.6E-01	7.1E-01	2.2	3	7.3E-01	6	3.7E-01	4.5	4.9E-01		--
	Bis[2-ethylhexyl]phthalate	15	5.6E-01	1.6	6.2								--
	Butylbenzylphthalate	15	6.3E-02	1.1E-01	3.1E-01								--
	Dimethylphthalate	15	8.0E-02	7.5E-02	1.9E-01			200	9.7E-04				--
	BenzoicAcid	15	2.9E-01	7.4E-01	1.8								--
	BenzylAlcohol	15	1.5E-01	3.0E-01	1.1								--
	Dibenzofuran	15	7.0E-01	2.5	5.0								--
Lower Creek	Arsenic	11	5.8	6.3	2.0E+01	10	2.0	60	3.3E-01	7	2.9		*
	Cadmium	11	3.9E-01	4.0E-01	1.4	4	3.5E-01	20	7.0E-02	14	1.0E-01		--
	Chromium	11	4.4E+01	3.7E+01	6.0E+01	42	1.4	42	1.4	67	8.9E-01		*
	Copper	11	6.4E+01	7.7E+01	1.2E+02	100	1.2	50	2.4	217	5.5E-01		*
	Lead	11	4.0E+01	3.7E+01	9.2E+01	50	1.8	500	1.8E-01	118	7.8E-01		*
	Mercury	11	6.2E-02	9.0E-02	3.0E-01	0.3	1.0	0.1	3.0	5.5	5.5E-02		*
	Nickel	11	4.0E+01	2.2E+01	5.0E+01	30	1.7	20	2.5	980	5.1E-02		*
	Zinc	11	1.0E+02	7.3E+01	1.4E+02	86	1.7	200	7.1E-01	360	4.0E-01		--
	Acenaphthene	3	4.0E-02	3.8E-02	8.3E-02	20	4.2E-03						--
	Acenaphthylene	3	2.6E-01	3.7E-01	6.9E-01								--

Table G-4. Soil Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				Soil EICs and HQs					Potential COPEC ^b		
		n	Mean	SD	EPC ^a	Plant	PlantHQ	Invert.	Invert.HQ	Wildlife		Wildlife HQ	
	Anthracene	3	9.5E-01	1.2	2.3								--
	Fluorene	3	6.4E-02	7.7E-02	1.5E-01			30	5.1E-03				--
	Naphthalene	3	9.6E-02	1.3E-01	2.5E-01								--
	Phenanthrene	3	4.6E-01	5.1E-01	1.1								--
	2-Methylnaphthalene	3	1.0E-01	1.3E-01	2.5E-01								--
	Benz[a]anthracene	3	6.5E-01	6.0E-01	1.3								--
	Benzo[a]pyrene	3	1.3	1.3	2.7					12	2.3E-01		--
	Chrysene	3	2.8	2.3	5.5								--
	Dibenz[ah]anthracene	3	2.4E-01	1.7E-01	3.9E-01								--
	2,4-Dimethylphenol	3	3.3E-02	3.8E-02	7.7E-02								--
	2-Methylphenol	3	2.4E-02	2.1E-02	4.8E-02								--
	Phenol	3	9.7E-02	1.0E-01	2.2E-01	70	3.1E-03	30	7.2E-03				--
	Pentachlorophenol	3	2.3	3.2	6.0	3	2.0	6	9.9E-01	4.5	1.3		*
	Bis[2-ethylhexyl]phthalate	3	4.8E-01	6.7E-01	1.3								--
	Butylbenzylphthalate	3	3.0E-01	3.2E-01	6.7E-01								--
	Dimethylphthalate	3	1.8	1.2	3.1			200	1.6E-02				--
	BenzoicAcid	3	1.1	1.5	2.8								--
	BenzylAlcohol	3	1.6E-01	2.4E-01	4.4E-01								--
	Dibenzofuran	3	7.8E-02	8.5E-02	1.8E-01								--
Historical Creek	Arsenic	12	5.9	4.0	7.5	10	7.5E-01	60	1.2E-01	7	1.1		*
	Cadmium	11	8.3E-01	7.3E-01	2.5	4	6.3E-01	20	1.3E-01	14	1.8E-01		--
	Chromium	12	4.3E+01	1.6E+01	4.9E+01	42	1.2	42	1.2	67	7.3E-01		*
	Copper	11	6.2E+01	3.7E+01	7.7E+01	100	7.7E-01	50	1.5	217	3.6E-01		*
	Lead	11	1.1E+02	1.1E+02	2.3E+02	50	4.6	500	4.6E-01	118	2.0		*
	Mercury	11	1.6E-01	1.2E-01	2.1E-01	0.3	7.1E-01	0.1	2.1	5.5	3.9E-02		*
	Nickel	11	4.1E+01	1.3E+01	4.6E+01	30	1.5	20	2.3	980	4.7E-02		*
	Silver	6	3.7E-02	7.5E-03	4.3E-02	2	2.1E-02						--
	Zinc	11	1.6E+02	9.3E+01	2.0E+02	86	2.3	200	9.8E-01	360	5.4E-01		*
	Acenaphthene	11	7.9E-02	4.4E-02	9.7E-02	20	4.9E-03						--
	Acenaphthylene	11	9.5E-01	1.1	3.0								--
	Anthracene	11	4.3	5.4	1.4E+01								--
	Fluorene	11	1.9E-01	2.2E-01	4.3E-01			30	1.4E-02				--
	Naphthalene	11	1.0E-01	5.4E-02	1.2E-01								--
	Phenanthrene	11	7.5E-01	1.2E+00	1.8								--
	2-Methylnaphthalene	11	7.9E-02	4.3E-02	1.0E-01								--
	Benz[a]anthracene	11	7.2	1.2E+01	3.4E+01								--
	Benzo[a]pyrene	11	2.5E+01	3.8E+01	1.1E+02					12	9.2		*
	Chrysene	11	3.6E+01	5.7E+01	1.6E+02								--
	Dibenz[ah]anthracene	11	5.7	1.1E+01	3.9E+01								--
	Fluoranthene	6	3.3	6.7	1.7E+01								--
	Indeno[1,2,3-cd]pyrene	6	1.2E+01	1.7E+01	4.5E+01								--
	Pyrene	6	2.5	5.2	1.3E+01								--
	Benzo[ghi]perylene	6	5.1	5.5	9.7								--
	LPAHs	6	3.7	4.0	7.0								--
	Benzo[bk]fluoranthene	6	1.9E+01	3.8E+01	9.6E+01								--
	2,4-Dimethylphenol	11	6.0E-02	2.7E-02	7.1E-02								--
	2-Methylphenol	11	6.1E-02	2.6E-02	7.2E-02								--
	4-Methylphenol	6	2.3E-01	3.8E-01	1.0								--
	Phenol	11	6.1E-02	2.7E-02	7.2E-02	70	1.0E-03	30	2.4E-03				*
	Pentachlorophenol	11	2.2	2.8	7.9	3	2.6	6	1.3	4.5	1.8		*
	Bis[2-ethylhexyl]phthalate	11	2.1E-01	2.1E-01	5.7E-01								--
	Butylbenzylphthalate	11	2.6E-01	3.2E-01	9.0E-01								--
	Dimethylphthalate	11	7.6E-02	3.7E-02	9.1E-02			200	4.5E-04				--
	BenzoicAcid	11	1.1	1.0	2.1								--
	BenzylAlcohol	11	1.2E-01	1.0E-01	2.0E-01								--
	Dibenzofuran	11	7.2E-02	4.0E-02	9.2E-02								--
	TEQDFB1	3	7.7E-04	5.6E-04	1.4E-03					0.000002	6.9E+02		*
	TEQDFF1	3	7.7E-04	5.6E-04	1.4E-03					0.000002	6.8E+02		*
	TEQDF0_5M05	3	1.8E-03	1.3E-03	3.3E-03					0.000002	1.6E+03		*
	DieselRangeOrganics	6	5.1E+02	4.1E+02	8.5E+02			200	4.2	6000	1.4E-01		*
Landfill	Arsenic	7	3.6	3.6	6.3	10	6.3E-01	60	1.0E-01	7	9.0E-01		--
	Cadmium	6	5.4E-01	4.4E-01	9.0E-01	4	2.3E-01	20	4.5E-02	14	6.4E-02		--
	Chromium	7	3.7E+01	5.2	4.1E+01	42	9.7E-01	42	9.7E-01	67	6.1E-01		--
	Copper	6	5.6E+01	3.0E+01	8.1E+01	100	8.1E-01	50	1.6	217	3.7E-01		*
	Lead	6	1.2E+02	9.2E+01	2.0E+02	50	3.9	500	3.9E-01	118	1.7		*
	Mercury	6	1.3E-01	9.5E-02	2.1E-01	0.3	6.9E-01	0.1	2.1	5.5	3.8E-02		*
	Nickel	6	3.9E+01	4.9	4.3E+01	30	1.4	20	2.1	980	4.3E-02		*
	Zinc	6	1.9E+02	1.6E+02	4.5E+02	86	5.2	200	2.2	360	1.2		*
	Acenaphthene	2	3.7E-02	4.5E-02	6.8E-02	20	3.4E-03						--
	Acenaphthylene	2	4.7E-02	3.0E-02	6.8E-02								--
	Anthracene	2	4.5E-02	3.3E-02	6.8E-02								--
	Fluorene	2	3.7E-02	4.4E-02	6.8E-02			30	2.3E-03				--
	Naphthalene	2	3.0E-02	3.5E-02	5.5E-02								--
	Phenanthrene	2	9.8E-02	4.5E-02	1.3E-01								--
	2-Methylnaphthalene	2	3.9E-02	4.2E-02	6.8E-02								--
	Benz[a]anthracene	2	7.0E-02	2.8E-03	7.2E-02								--

Table G-4. Soil Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				Soil EICs and HQs						Potential COPEC ^b
		n	Mean	SD	EPC ^a	Plant	PlantHQ	Invert.	Invert.HQ	Wildlife	Wildlife HQ	
	Benzo[a]pyrene	2	1.0E-01	4.4E-02	1.4E-01					12	1.1E-02	--
	Chrysene	2	8.9E-02	3.0E-02	1.1E-01							--
	Dibenz[ah]anthracene	2	7.3E-02	8.9E-02	1.4E-01							--
	2,4-Dimethylphenol	2	3.9E-02	4.1E-02	6.8E-02							--
	2-Methylphenol	2	3.9E-02	4.1E-02	6.8E-02							--
	Phenol	2	3.7E-02	4.4E-02	6.8E-02	70	9.7E-04	30	2.3E-03			--
	Pentachlorophenol	2	3.4E-01	7.8E-03	3.5E-01	3	1.2E-01	6	5.8E-02	4.5	7.8E-02	--
	Bis[2-ethylhexyl]phthalate	2	4.7E-01	1.9E-01	6.1E-01							--
	Butylbenzylphthalate	2	7.3E-02	8.9E-02	1.4E-01							--
	Dimethylphthalate	2	3.9E-02	4.1E-02	6.8E-02			200	3.4E-04			--
	BenzoicAcid	2	4.9E-01	5.6E-01	8.8E-01							--
	BenzylAlcohol	2	5.5E-02	6.7E-02	1.0E-01							--
	Dibenzofuran	2	3.8E-02	4.2E-02	6.8E-02							--
Wetland	Arsenic	2	2.9E+01	2.6E+01	4.7E+01	10	4.7	60	7.8E-01	7	6.7	*
	Cadmium	2	7.8E-01	1.8E-01	9.0E-01	4	2.3E-01			14	6.4E-02	--
	Chromium	2	5.0E+01	3.1	5.3E+01	42	1.3	36	1.5	67	7.8E-01	*
	Copper	2	5.6E+01	1.3E+01	6.5E+01	100	6.5E-01	36	1.8	217	3.0E-01	*
	Lead	2	6.6E+01	4.8E+01	1.0E+02	50	2.0	100	1.0	118	8.5E-01	*
	Mercury	2	7.8E-02	1.1E-02	8.5E-02	0.3	2.8E-01	100	8.5E-04	5.5	1.5E-02	--
	Nickel	2	5.1E+01	1.1E+00	5.2E+01	30	1.7	100	5.2E-01	980	5.3E-02	*
	Zinc	2	1.8E+02	1.1E+02	2.6E+02	86	3.0			360	7.1E-01	*
Railroad	Arsenic	6	8.7	1.5	1.0E+01	10	1.0	60	1.7E-01	7	1.4	*
	Cadmium	6	4.0E-01	3.3E-01	6.7E-01	4	1.7E-01			14	4.8E-02	--
	Chromium	6	3.8E+01	1.2E+01	4.7E+01	42	1.1	36	1.3	67	7.1E-01	*
	Copper	6	5.8E+01	2.3E+01	7.6E+01	100	7.6E-01	36	2.1	217	3.5E-01	*
	Lead	6	1.4E+02	1.1E+02	2.3E+02	50	4.6	100	2.3	118	2.0	*
	Mercury	6	1.1E-01	8.6E-02	1.8E-01	0.3	6.2E-01	100	1.8E-03	5.5	3.4E-02	--
	Nickel	6	3.7E+01	8.0E+00	4.4E+01	30	1.5	100	4.4E-01	980	4.4E-02	*
	Zinc	6	1.6E+02	7.3E+01	2.2E+02	86	2.6			360	6.1E-01	*
Background	2,4-Dimethylphenol	17	7.9E-02	7.2E-03	8.2E-02							--
	2-Methylnaphthalene	20	8.0E-02	7.0E-03	8.3E-02							--
	2-Methylphenol	20	8.0E-02	7.0E-03	8.3E-02							--
	Acenaphthene	20	8.0E-02	7.0E-03	8.3E-02	20	4.1E-03					--
	Acenaphthylene	20	8.0E-02	7.0E-03	8.3E-02							--
	Anthracene	20	7.8E-02	9.5E-03	8.2E-02							--
	Arsenic	20	5.3	1.6	6.0	10	6.0E-01	60	9.9E-02	7	8.5E-01	--
	Benz[a]anthracene	20	9.8E-02	6.7E-02	1.1E-01							--
	Benzo[a]pyrene	20	1.7E-01	6.8E-02	1.9E-01					12	1.6E-02	--
	BenzoicAcid	20	9.5E-01	4.3E-01	1.1							--
	BenzylAlcohol	20	4.0E-01	3.5E-02	4.1E-01							--
	Bis[2-ethylhexyl]phthalate	20	4.5E-01	2.2E-01	5.0E-01							--
	Butylbenzylphthalate	20	1.6E-01	1.4E-02	1.7E-01							--
	Chromium	20	4.2E+01	1.5E+01	4.7E+01	42	1.1	42	1.1	67	7.0E-01	*
	Chrysene	20	1.5E-01	1.3E-01	1.9E-01							--
	Dibenz[ah]anthracene	20	1.7E-01	3.7E-02	1.8E-01							--
	Dibenzofuran	20	8.0E-02	7.1E-03	8.3E-02							--
	Dimethylphthalate	20	8.0E-02	7.0E-03	8.3E-02			200	4.1E-04			--
	Fluorene	20	8.0E-02	7.0E-03	8.3E-02			30	2.8E-03			--
	Naphthalene	20	1.0E-01	3.8E-02	1.1E-01							--
	Pentachlorophenol	20	4.0E-01	3.5E-02	4.1E-01	3	1.4E-01	6	6.9E-02	4.5	9.2E-02	--
	Phenanthrene	20	1.7E-01	1.3E-01	2.4E-01							--
	Phenol	20	8.0E-02	7.0E-03	8.3E-02	70	1.2E-03	30	2.8E-03			--

^a EPCs were maximum values, Student's t-test UCL95s, or UCL95s calculated by Land's method, depending on the data distribution and UCL values.

^b Metals eliminated by background evaluation were still included in screening for information purposes

Table G-5. Water Exposure Point Concentrations (ug/L) and Hazard Quotients (dimensionless) of CoPECs by Area

Area	Analyte	Statistics					EIC	HQ	Potential CoPEC ^b
		n	Mean	SD	EPC ^a				
Upper Creek	Aluminum	12	2.2E+02	4.5E+02	1.6E+03	87	c	1.9E+01	*
	Aluminum dissolved	7	5.6E+01	5.0E+01	9.3E+01	87	c	1.1	*
	Barium	12	3.0E+01	2.7E+01	4.2E+01	4	d	1.1E+01	*
	Barium dissolved	7	24.5	6.0	2.9E+01	4	d	7.2	*
	Copper	22	6.4	7.7	1.0E+01	9	d	1.1	*
	Copper dissolved	17	5.1	6.4	6.9	9	d	7.6E-01	--
	Iron	12	3.0E+02	4.1E+02	1.5E+03	1000	e	1.5	*
	Lead	22	2.0	3.6	5.4	2.5	e	2.2	*
	Magnesium	22	1.1E+04	6.8E+03	1.4E+04	647	f	2.1E+01	*
	Magnesium dissolved	17	1.0E+04	7.2E+03	1.3E+04	647	f	2.1E+01	*
	Manganese	12	6.1E+01	4.2E+01	8.3E+01	120	d	6.9E-01	--
	Anthracene	26	7.4E-02	6.6E-02	1.5E-01	0.73	d	2.1E-01	--
	Benz[a]anthracene	26	7.2E-02	8.1E-02	2.3E-01	0.027	d	8.3	*
	Benzo[a]pyrene	26	8.1E-02	7.8E-02	2.3E-01	0.014	d	1.6E+01	*
	Pyrene	26	1.3E-01	1.5E-01	3.4E-01	0.3	e	1.1	*
	Pentachlorophenol	26	7.7	27	7.0E+01	15	c	4.7	*
	2,3,4,6-Tetrachlorophenol	9	2.2	2.2	4.6	1.2	e	3.8	*
	2,3,7,8-TCDD	16	4.2E-06	2.6E-06	5.8E-06	0.000000003	e	1.9E+03	*
TEQDF (Fish)	16	4.0E-05	7.1E-05	5.9E-05	0.000000003	e	2.0E+04	*	
Alkalinity	11	1.1E+05	3.3E+04	1.5E+05	20000	c	7.5	*	
Lower Creek	Aluminum	4	7.3E+01	1.0E+02	1.9E+02	87	c	2.2	*
	Aluminum dissolved	3	1.7E+01	1.2E+01	3.1E+01	87	c	3.6E-01	--
	Barium	4	2.1E+01	6.4	2.9E+01	4	d	7.1	*
	Barium dissolved	3	2.0E+01	6.0	2.6E+01	4	d	6.5	*
	Copper	8	4.8	3.6	1.0E+01	9	d	1.1	*
	Copper dissolved	7	3.0	1.7	4.3	9	d	4.7E-01	--
	Iron	4	1.5E+02	1.4E+02	3.0E+02	1000	e	3.0E-01	--
	Lead	8	2.0	3.1	4.1	2.5	e	1.6	*

Table G-5. Water Exposure Point Concentrations (ug/L) and Hazard Quotients (dimensionless) of CoPECs by Area

Area	Analyte	Statistics					EIC	HQ	Potential CoPEC ^b
		n	Mean	SD	EPC ^a				
	Magnesium	8	1.2E+04	6.9E+03	1.7E+04	647	f	2.6E+01	*
	Magnesium dissolved	7	1.2E+04	7.5E+03	1.7E+04	647	f	2.7E+01	*
	Manganese	4	3.1E+01	2.6E+01	6.3E+01	120	d	5.2E-01	--
	Anthracene	8	8.8E-02	6.7E-02	1.5E-01	0.73	d	2.1E-01	--
	Benz[a]anthracene	8	1.1E-01	8.9E-02	1.7E-01	0.027	d	6.4	*
	Benzo[a]pyrene	8	1.1E-01	8.0E-02	2.2E-01	0.014	d	1.6E+01	*
	Pyrene	8	1.4E-01	6.8E-02	1.8E-01	0.3	e	6.1E-01	--
	Pentachlorophenol	8	5.5	7.1	1.0E+01	15	c	6.8E-01	--
	2,3,4,6-Tetrachlorophenol	4	1.7	9.5E-01	2.5	1.2	e	2.1	*
	2,3,7,8-TCDD	3	3.3E-06	1.6E-06	4.9E-06	0.000000003	e	1.6E+03	*
	TEQDF (Fish)	3	1.9E-05	1.1E-05	3.2E-05	0.000000003	e	1.1E+04	*
	Alkalinity	3	1.1E+05	1.4E+04	6.0E-06	20000	c	3.0E-10	--
Historical Creek	Copper	2	2.0E+01	2.0E+01	3.5E+01	9	d	3.8	*
	Copper dissolved	2	1.6E+01	1.8E+01	2.9E+01	9	d	3.2	*
	Lead	2	2.0	1.4	3.0	2.5	e	1.2	*
	Magnesium	2	4.3E+03	3.8E+03	6.9E+03	647	f	1.1E+01	*
	Magnesium dissolved	2	4.2E+03	3.7E+03	6.8E+03	647	f	1.1E+01	*
	Anthracene	1	1.5E-01	NA	1.5E-01	0.73	d	2.1E-01	--
	Benz[a]anthracene	1	1.7E-01	NA	1.7E-01	0.027	d	6.1	*
	Benzo[a]pyrene	1	1.5E-01	NA	1.5E-01	0.014	d	1.1E+01	*
	Pyrene	1	1.7E-01	NA	1.7E-01	0.3	e	5.7E-01	--
	Pentachlorophenol	1	4.6E-01	NA	4.6E-01	15	c	3.0E-02	--
	2,3,4,6-Tetrachlorophenol	1	8.5E-01	NA	8.5E-01	1.2	e	7.1E-01	--
Wetland	Aluminum	3	2.9E+01	1.3E+01	4.1E+01	87	c	4.7E-01	--
	Aluminum dissolved	1	2.2E+01	NA	2.2E+01	87	c	2.5E-01	--
	Barium	3	1.3E+01	3.8	1.7E+01	4	d	4.3	*
	Barium dissolved	1	10.5	NA	10.5	4	d	2.6	*
	Copper	5	1.6	6.0E-01	2.2	9	d	2.5E-01	--

Table G-5. Water Exposure Point Concentrations (ug/L) and Hazard Quotients (dimensionless) of CoPECs by Area

Area	Analyte	Statistics					EIC	HQ	Potential CoPEC ^b
		n	Mean	SD	EPC ^a				
	Copper dissolved	3	1.9	5.1E-01	2.3	9	d	2.6E-01	--
	Iron	3	3.1E+02	4.1E+02	7.8E+02	1000	e	7.8E-01	--
	Lead	5	2.3E-01	1.5E-01	4.9E-01	2.5	e	2.0E-01	--
	Magnesium	5	1.0E+04	1.0E+03	1.1E+04	647	f	1.7E+01	*
	Magnesium dissolved	3	9.1E+03	3.1E+02	9.5E+03	647	f	1.5E+01	*
	Manganese	3	6.9E+01	9.3E+01	1.8E+02	120	d	1.5	*
	Anthracene	5	1.0E-01	9.4E-02	1.9E-01	0.73	d	2.6E-01	--
	Benz[a]anthracene	5	1.1E-01	9.9E-02	2.0E-01	0.027	d	7.5	*
	Benzo[a]pyrene	5	1.0E-01	9.5E-02	1.9E-01	0.014	d	1.4E+01	*
	Pyrene	5	1.1E-01	9.5E-02	2.1E-01	0.3	e	6.9E-01	--
	Pentachlorophenol	5	0.4	0.4	0.8	15	c	0.1	--
	2,3,4,6-Tetrachlorophenol	2	1.7	1.2	2.5	1.2	e	2.1	*
	2,3,7,8-TCDD	2	3.9E-06	2.3E-06	5.5E-06	0.000000003	e	1.8E+03	*
	TEQDF (Fish)	2	2.7E-05	7.4E-06	3.2E-05	0.000000003	e	1.1E+04	*
	Alkalinity	2	7.3E+04	8.4E+03	7.9E+04	20000	c	4.0	*
Beach	Aluminum	1	4.3E+01	NA	4.3E+01	87	c	4.9E-01	--
	Aluminum dissolved	1	1.0E+01	NA	1.0E+01	87	c	1.1E-01	--
	Barium	1	2.1E+01	NA	2.1E+01	4	d	5.4	*
	Barium dissolved	1	2.1E+01	NA	2.1E+01	4	d	5.2	*
	Copper	1	3.6	NA	3.6	9	d	4.0E-01	--
	Copper dissolved	1	3.8	NA	3.8	9	d	4.2E-01	--
	Iron	1	2.2E+02	NA	2.2E+02	1000	e	2.2E-01	--
	Lead	1	7.0E-01	NA	7.0E-01	2.5	e	2.8E-01	--
	Magnesium	1	2.0E+04	NA	2.0E+04	647	f	3.2E+01	*
	Magnesium dissolved	1	2.1E+04	NA	2.1E+04	647	f	3.3E+01	*
	Manganese	1	6.2E+01	NA	6.2E+01	120	d	5.2E-01	--
	Anthracene	1	9.0E-01	NA	9.0E-01	0.73	d	1.2	*
	Benz[a]anthracene	1	2.2E-01	NA	2.2E-01	0.027	d	8.0	*

Table G-5. Water Exposure Point Concentrations (ug/L) and Hazard Quotients (dimensionless) of CoPECs by Area

Area	Analyte	Statistics					EIC	HQ	Potential CoPEC ^b
		n	Mean	SD	EPC ^a				
	Benzo[a]pyrene	1	1.2E-01	NA	1.2E-01	0.014	^d	8.6	*
	Pyrene	1	7.0E-02	NA	7.0E-02	0.3	^e	2.3E-01	--
	Pentachlorophenol	1	1.1	NA	1.1	15	^c	7.3E-02	--
Background	Copper	2	1.5	4.9E-01	1.8	9	^d	2.0E-01	--
	Copper dissolved	2	2.1	8.5E-01	2.7	9	^d	3.0E-01	--
	Lead	2	0.2	0	0.2	2.5	^e	8.0E-02	--
	Magnesium	2	3.47E+03	6.7E+02	3940.0	647	^f	6.1	*
	Magnesium dissolved	2	3.41E+03	6.2E+02	3840.0	647	^f	5.9	*
	Anthracene	2	0.2	0	0.2	0.73	^d	2.1E-01	--
	Benz[a]anthracene	2	0.2	0	0.2	0.027	^d	6.1	*
	Benzo[a]pyrene	2	1.5E-01	0	1.5E-01	0.014	^d	1.1E+01	*
	Pyrene	2	1.7E-01	0	1.7E-01	0.3	^e	0.6	--
	Pentachlorophenol	2	4.6E-01	0	4.6E-01	15	^c	0.0	--
	2,3,4,6-Tetrachlorophenol	2	1.7	1.2	2.5	1.2	^e	2.1	*
	2,3,7,8-TCDD	1	3.5E-06	NA	3.5E-06	0.000000003	^e	1.2E+03	*
	TEQDF (Fish)	1	1.0E-05	NA	1.0E-05	0.000000003	^e	3.3E+03	*

Notes: ^a EPCs were maximum values, Student's t-test UCL95s, or UCL95s calculated by Land's method, depending on the data distribution and UCL values.

^b Metals eliminated by background evaluation were still included in screening for information purposes

^c EIC is USEPA WQC continuous exposure value.

^d EIC is Tier II SCV.

^e EIC is USEPA Region 5 ESL.

^f EIC is USEPA Region 6 FWSB.

Table G-6. Sediment Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				EICs		HQs		Source	Potential COPEC ^b
		n	mean	SD	EPC ^a	SQS	CSL	SQS	CSL		
Upper Creek	Aluminum	10	1.2E+04	1.7E+03	1.3E+04	--	--	--	--	--	
	Antimony	10	3.0	2.6	8.3	0.4	0.6	21	14	c	*
	Arsenic	12	6.9	8.0	1.2E+01	20	51	0.6	0.2	c	
	Cadmium	18	5.3E-01	3.8E-01	6.9E-01	0.6	1	1.1	0.7	c	*
	Chromium	12	5.2E+01	4.3E+01	9.0E+01	95	100	1.0	0.9	c	
	Copper	18	3.2E+01	2.8E+01	5.2E+01	80	830	0.6	0.1	c	
	Lead	18	2.4E+01	1.8E+01	3.4E+01	335	430	0.1	0.1	c	
	Mercury	18	5.2E-02	5.5E-02	2.0E-01	0.5	0.75	0.4	0.3	c	
	Nickel	18	3.0E+01	2.4E+01	5.6E+01	60	70	0.9	0.8	c	
	Silver	12	2.4E-01	1.9E-01	6.0E-01	2	2.5	0.3	0.2	c	
	Vanadium	10	4.4E+01	7.0	4.8E+01	--	--	--	--	--	
	Zinc	18	1.9E+02	9.8E+01	2.4E+02	140	160	1.7	1.5	c	*
	2,4-Dimethylphenol	13	5.6E-02	7.0E-02	2.2E-01	0.029	0.029	7.6	7.6	d	*
	2-Methylphenol	13	1.2E-01	2.7E-01	8.2E-01	0.063	0.063	13	13	d	*
	4-Methylphenol	7	1.6E-01	1.7E-01	5.0E-01	0.67	0.67	0.8	0.8	d	
	Phenol	13	1.5E-01	1.7E-01	5.1E-01	0.42	1.2	1.2	0.4	d	*
	Pentachlorophenol	13	1.5	1.2	2.1	0.36	0.69	5.8	3.0	d	*
	Bis[2-ethylhexyl]phthalate	13	4.3E-01	5.5E-01	1.7	0.23	0.32	7.3	5.3	c	*
	Butylbenzylphthalate	13	1.0E-01	1.5E-01	5.1E-01	0.26	0.37	2.0	1.4	c	*
	Dimethylphthalate	13	3.2E-01	6.4E-01	2.0	0.046	0.44	42	4.4	c	*
	TEQDFB1	6	1.0E-04	1.4E-04	3.7E-04	--	--	--	--	--	
	TEQDF1	6	1.0E-04	1.5E-04	3.9E-04	--	--	--	--	--	
	TEQDF0_5M05	6	2.3E-04	2.8E-04	4.6E-04	--	--	--	--	--	
	BenzoicAcid	13	8.5E-01	1.4	5.3	0.65	0.65	8.2	8.2	d	*
	BenzylAlcohol	13	1.1	3.6	1.3E+01	0.057	0.073	228.1	178.1	d	*
	Dibenzofuran	13	2.7	9.1	3.3E+01	0.4	0.44	82.5	75.0	c	*
	Acenaphthene	13	1.0E+01	3.6E+01	1.3E+02	1.06	1.32	122.6	98.5	c	*
	Acenaphthylene	13	1.4E-01	1.2E-01	2.0E-01	0.47	0.64	0.4	0.3	c	
	Anthracene	13	8.2	2.4E+01	8.8E+01	1.2	1.58	73.3	55.7	c	*
	Fluorene	13	7.9	2.8E+01	1.0E+02	1	3	100.0	33.3	c	*
	Naphthalene	13	4.6E-01	1.2	4.3	0.5	1.31	8.6	3.3	c	*
	Phenanthrene	13	2.5E+01	8.9E+01	2.8E+02	6.1	7.6	46.0	36.9	c	*
	2-Methylnaphthalene	13	7.9E-01	2.4	8.7	0.47	0.56	18.5	15.5	c	*
	Benz[a]anthracene	13	7.4	2.0E+01	7.4E+01	4.26	5.8	17.4	12.8	c	*
	Benzo[a]pyrene	13	5.2	9.7	3.6E+01	3.3	4.81	10.9	7.5	c	*
	Chrysene	13	1.3E+01	2.6E+01	9.5E+01	5.94	6.4	16.0	14.8	c	*
	Dibenz[ah]anthracene	13	6.9E-01	1.3	4.7	0.8	0.84	5.9	5.6	c	*
	Fluoranthene	13	2.7E+01	9.4E+01	3.4E+02	11	15	31	23	c	*
	Indeno[1,2,3-cd]pyrene	13	2.1	3.1	1.1E+01	4.12	5.3	2.7	2.1	c	*
	Pyrene	13	1.9E+01	6.1E+01	2.2E+02	8.8	16	25	14	c	*
	Benzo[ghi]perylene	13	1.9	2.8	1.0E+01	4.02	5.2	2.5	1.9	c	*
	Total LPAH	13	5.3E+01	1.8E+02	6.5E+02	6.6	9.2	99	71	c	*
	Total Benzofluoranthenes[ND=1/2DL]	13	9.6	1.8E+01	6.8E+01	11	14	6.2	4.9	c	*
DieselRangeOrganics	3	1.2E+03	2.1E+03	3.7E+03	--	--	--	--	--		
Lower Creek	Aluminum	5	1.1E+04	2.2E+03	1.3E+04	--	--	--	--	--	
	Antimony	5	2.7	1.5	4.1	0.4	0.6	10.2	6.8	c	*
	Arsenic	9	7.1	5.5	1.1E+01	20	51	0.5	0.2	c	
	Cadmium	13	5.2E-01	3.3E-01	6.8E-01	0.6	1	1.1	0.7	c	*
	Chromium	9	4.7E+01	4.1E+01	8.5E+01	95	100	0.9	0.8	c	
	Copper	13	7.6E+01	8.9E+01	2.4E+02	80	830	3.0	0.3	c	*
	Lead	13	6.1E+01	8.8E+01	2.2E+02	335	430	0.7	0.5	c	
	Mercury	13	5.7E-02	6.2E-02	1.9E-01	0.5	0.75	0.4	0.3	c	
	Nickel	13	2.8E+01	2.4E+01	6.5E+01	60	70	1.1	0.9	c	*
	Silver	9	3.5	1.0E+01	3.0E+01	2	2.5	15.0	12.0	c	*
	Vanadium	5	3.7E+01	7.1	4.4E+01	--	--	--	--	--	
	Zinc	13	1.5E+02	9.7E+01	2.0E+02	140	160	1.4	1.2	c	*
	2,4-Dimethylphenol	10	2.3E-02	3.3E-02	5.2E-02	0.029	--	1.8	1.8	d	*
	2-Methylphenol	10	2.0E-02	3.3E-02	4.5E-02	0.063	--	0.7	0.7	d	
	4-Methylphenol	6	9.5E-02	9.7E-02	1.7E-01	0.67	--	0.3	0.3	d	
	Phenol	10	4.4E-02	5.3E-02	1.7E-01	0.42	--	0.4	0.1	d	
	Pentachlorophenol	10	1.4	1.7	4.5	0.36	--	12.5	6.5	d	*
	Bis[2-ethylhexyl]phthalate	10	3.3E-01	3.2E-01	1.1	0.23	0.32	4.6	3.3	c	*
	Butylbenzylphthalate	10	6.8E-02	7.8E-02	1.8E-01	0.26	0.37	0.7	0.5	c	
	Dimethylphthalate	10	6.8E-01	9.2E-01	2.7	0.046	0.44	58.7	6.1	c	*
	TEQDFB1	5	9.3E-04	2.0E-03	4.4E-03	--	--	--	--	--	
	TEQDF1	5	7.1E-04	1.5E-03	3.4E-03	--	--	--	--	--	

Table G-6. Sediment Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				EICs		HQs		Source	Potential COPEC ^b
		n	mean	SD	EPC ^a	SQS	CSL	SQS	CSL		
	TEQDF0_5M05	5	1.3E-03	2.6E-03	5.9E-03	--	--	--	--	--	
	BenzoicAcid	10	4.2E-01	4.6E-01	6.8E-01	0.65	1.0528	1.1	1.1	d	*
	BenzylAlcohol	10	5.1E-02	5.4E-02	1.5E-01	0.057	2.6842	2.7	2.1	d	*
	Dibenzofuran	10	6.9E-02	1.1E-01	3.7E-01	0.4	0.44	0.9	0.8	c	
	Acenaphthene	10	1.3	3.8	1.2E+01	1.06	1.32	11.3	9.1	c	*
	Acenaphthylene	10	8.8E-02	1.3E-01	4.3E-01	0.47	0.64	0.9	0.7	c	
	Anthracene	10	4.4	1.1E+01	3.7E+01	1.2	1.58	30.7	23.3	c	*
	Fluorene	10	1.8	5.3	1.7E+01	1	3	17.0	5.7	c	*
	Naphthalene	10	4.4E-01	1.2	3.8	0.5	1.31	7.6	2.9	c	*
	Phenanthrene	10	3.6	1.0E+01	3.3E+01	6.1	7.6	5.4	4.3	c	*
	2-Methylnaphthalene	10	3.0E-01	8.1E-01	2.6	0.47	0.56	5.6	4.7	c	*
	Benz[a]anthracene	10	3.9	9.3	3.0E+01	4.26	5.8	7.1	5.2	c	*
	Benzo[a]pyrene	10	3.1	6.3	2.1E+01	3.3	4.81	6.3	4.3	c	*
	Chrysene	10	8.0	1.7E+01	5.6E+01	5.94	6.4	9.3	8.7	c	*
	Dibenz[ah]anthracene	10	2.9E-01	4.7E-01	1.6	0.8	0.84	2.0	1.9	c	*
	Fluoranthene	10	9.4	2.7E+01	8.6E+01	11	15	7.8	5.8	c	*
	Indeno[1,2,3-cd]pyrene	10	1.5	3.0	1.0E+01	4.12	5.3	2.4	1.9	c	*
	Pyrene	10	8.5	2.4E+01	7.8E+01	8.8	16	8.9	4.9	c	*
	Benzo[ghi]perylene	10	1.1	2.0	6.8	4.02	5.2	1.7	1.3	c	*
	Total LPAH	10	1.2E+01	3.3E+01	1.1E+02	6.6	9.2	15.9	11.4	c	*
	Total Benzofluoranthenes[ND=1/2DL]	10	5.5	1.1E+01	3.5E+01	11	14	3.2	2.5	c	*
	Diesel Range Organics	4	8.1E+01	7.5E+01	1.7E+02	--	--	--	--	--	
Historical Creek	Arsenic	12	5.9	4.0	7.5	20	51	0.4	0.1	c	
	Cadmium	11	8.3E-01	7.3E-01	2.5	0.6	1	4.2	2.5	c	*
	Chromium	12	4.3E+01	1.6E+01	4.9E+01	95	100	0.5	0.5	c	
	Copper	11	6.2E+01	3.7E+01	7.7E+01	80	830	1.0	0.1	c	
	Lead	11	1.1E+02	1.1E+02	2.3E+02	335	430	0.7	0.5	c	
	Mercury	11	1.6E-01	1.2E-01	2.1E-01	0.5	0.75	0.4	0.3	c	
	Nickel	11	4.1E+01	1.3E+01	4.6E+01	60	70	0.8	0.7	c	
	Silver	6	3.7E-02	7.5E-03	4.3E-02	2	2.5	0.021	0.017	c	
	Zinc	11	1.6E+02	9.3E+01	2.0E+02	140	160	1.4	1.2	c	*
	2,4-Dimethylphenol	11	6.0E-02	2.7E-02	7.1E-02	0.029	0.029	2.5	2.5	d	*
	2-Methylphenol	11	6.1E-02	2.6E-02	7.2E-02	0.063	0.063	1.1	1.1	d	*
	4-Methylphenol	6	2.3E-01	3.8E-01	1.0	0.67	0.67	1.5	1.5	d	*
	Phenol	11	6.1E-02	2.7E-02	7.2E-02	0.42	1.2	0.2	0.1	d	
	Pentachlorophenol	11	2.2	2.8	7.9	0.36	0.69	21.9	11.4	d	*
	Bis[2-ethylhexyl]phthalate	11	2.1E-01	2.1E-01	5.7E-01	0.23	0.32	2.5	1.8	c	*
	Butylbenzylphthalate	11	2.6E-01	3.2E-01	9.0E-01	0.26	0.37	3.5	2.4	c	*
	Dimethylphthalate	11	7.6E-02	3.7E-02	9.1E-02	0.046	0.44	2.0	0.2	c	*
	TEQDFB1	3	7.7E-04	5.6E-04	1.4E-03	--	--	--	--	--	
	TEQDF1	3	7.7E-04	5.6E-04	1.4E-03	--	--	--	--	--	
	TEQDF0_5M05	3	1.8E-03	1.3E-03	3.3E-03	--	--	--	--	--	
	BenzoicAcid	11	1.1	1.0E+00	2.1E+00	0.65	0.65	3.2	3.2	d	*
	BenzylAlcohol	11	1.2E-01	1.0E-01	2.0E-01	0.057	0.073	3.5	2.7	d	*
	Dibenzofuran	11	7.2E-02	4.0E-02	9.2E-02	0.4	0.44	0.2	0.2	c	
	Acenaphthene	11	7.9E-02	4.4E-02	9.7E-02	1.06	1.32	0.1	0.1	c	
	Acenaphthylene	11	9.5E-01	1.1	3.0	0.47	0.64	6.4	4.7	c	*
	Anthracene	11	4.3	5.4	1.4E+01	1.2	1.58	11.7	8.9	c	*
	Fluorene	11	1.9E-01	2.2E-01	4.3E-01	1	3	0.4	0.1	c	
	Naphthalene	11	1.0E-01	5.4E-02	1.2E-01	0.5	1.31	0.2	0.1	c	
	Phenanthrene	11	7.5E-01	1.2	1.8	6.1	7.6	0.3	0.2	c	
	2-Methylnaphthalene	11	7.9E-02	4.3E-02	1.0E-01	0.47	0.56	0.2	0.2	c	
	Benz[a]anthracene	11	7.2	1.2E+01	3.4E+01	4.26	5.8	8.0	5.9	c	*
	Benzo[a]pyrene	11	2.5E+01	3.8E+01	1.1E+02	3.3	4.81	33.3	22.9	c	*
	Chrysene	11	3.6E+01	5.7E+01	1.6E+02	5.94	6.4	26.9	25.0	c	*
	Dibenz[ah]anthracene	11	5.7	1.1E+01	3.9E+01	0.8	0.84	48.8	46.4	c	*
	Fluoranthene	6	3.3	6.7	1.7E+01	11	15	1.5	1.1	c	*
	Indeno[1,2,3-cd]pyrene	6	1.2E+01	1.7E+01	4.5E+01	4.12	5.3	10.9	8.5	c	*
	Pyrene	6	2.5	5.2	1.3E+01	8.8	16	1.5	0.8	c	*
	Benzo[ghi]perylene	6	5.1	5.5	9.7	4.02	5.2	2.4	1.9	c	*
	Total LPAH	6	3.7	4.0	7.0	6.6	9.2	1.1	0.8	c	*
	Total Benzofluoranthenes[ND=1/2DL]	6	1.9E+01	3.8E+01	9.6E+01	11	14	8.7	6.9	c	*
	Diesel Range Organics	6	5.1E+02	4.1E+02	8.5E+02	--	--	--	--	--	
Wetland	Aluminum	2	1.3E+04	3.4E+03	1.6E+04	--	--	--	--	--	
	Antimony	2	4.5	3.5	7.0	0.4	0.6	17.5	11.7	c	*
	Arsenic	2	2.3	6.4E-02	2.3	20	51	0.1	0.0	c	

Table G-6. Sediment Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				EICs		HQs		Source	Potential COPEC ^b
		n	mean	SD	EPC ^a	SQS	CSL	SQS	CSL		
	Cadmium	3	1.1	1.0	2.3	0.6	1	3.8	2.3	c	*
	Chromium	2	1.3E+02	1.2E+02	2.2E+02	95	100	2.3	2.2	c	*
	Copper	3	4.9E+01	3.0E+01	8.4E+01	80	830	1.0	0.1	c	*
	Lead	3	1.4E+01	6.5	1.9E+01	335	430	0.1	0.0	c	
	Mercury	3	7.9E-02	8.6E-02	1.8E-01	0.5	0.75	0.4	0.2	c	
	Nickel	3	5.7E+01	4.5E+01	1.1E+02	60	70	1.8	1.5	c	*
	Silver	2	6.5E-01	7.1E-01	1.2	2	2.5	0.6	0.5	c	
	Vanadium	2	5.3E+01	1.0E+01	6.1E+01	--	--	--	--	--	
	Zinc	3	9.4E+01	2.8E+01	1.3E+02	140	160	0.9	0.8	c	
	2,4-Dimethylphenol	3	8.4E-02	5.5E-02	1.3E-01	0.029	0.029	4.6	4.6	d	*
	2-Methylphenol	3	1.1E-01	8.7E-02	2.0E-01	0.063	0.063	3.1	3.1	d	*
	4-Methylphenol	2	3.0E-01	3.6E-01	5.5E-01	0.67	0.67	0.8	0.8	d	
	Phenol	3	7.4E-01	1.2	2.1	0.42	1.2	5.0	1.8	d	*
	Pentachlorophenol	3	5.9E-01	6.3E-01	1.3	0.36	0.69	3.5	1.8	d	*
	Bis[2-ethylhexyl]phthalate	3	2.1E-01	2.4E-01	4.9E-01	0.23	0.32	2.1	1.5	c	*
	Butylbenzylphthalate	3	7.2E-02	4.1E-02	9.8E-02	0.26	0.37	0.4	0.3	c	
	Dimethylphthalate	3	7.1E-02	4.2E-02	9.8E-02	0.046	0.44	2.1	0.2	c	*
	TEQDFB1	1	5.3E-06	NA	5.3E-06	--	--	--	--	--	
	TEQDF1	1	4.3E-06	NA	4.3E-06	--	--	--	--	--	
	TEQDF0_5M05	1	7.6E-06	NA	7.6E-06	--	--	--	--	--	
	BenzoicAcid	3	3.1	4.5	8.2	0.65	0.65	12.7	12.7	d	*
	BenzylAlcohol	3	2.1	3.6	6.3	0.057	0.073	110.4	86.2	d	*
	Dibenzofuran	3	5.6E-02	3.4E-02	9.3E-02	0.4	0.44	0.2	0.2	c	
	Acenaphthene	3	3.8E-02	4.8E-02	9.3E-02	1.06	1.32	0.1	0.1	c	
	Acenaphthylene	3	4.9E-02	4.4E-02	9.3E-02	0.47	0.64	0.2	0.1	c	
	Anthracene	3	6.0E-02	4.8E-02	9.3E-02	1.2	1.58	0.1	0.1	c	
	Fluorene	3	5.5E-02	4.1E-02	9.3E-02	1	3	0.1	0.0	c	
	Naphthalene	3	5.8E-02	4.6E-02	9.3E-02	0.5	1.31	0.2	0.1	c	
	Phenanthrene	3	1.1E-01	1.1E-01	2.3E-01	6.1	7.6	0.0	0.0	c	
	2-Methylnaphthalene	3	4.9E-02	4.4E-02	9.3E-02	0.47	0.56	0.2	0.2	c	
	Benz[a]anthracene	3	4.9E-02	4.4E-02	9.3E-02	4.26	5.8	0.0	0.0	c	
	Benzo[a]pyrene	3	4.9E-02	4.4E-02	9.3E-02	3.3	4.81	0.0	0.0	c	
	Chrysene	3	4.9E-02	4.4E-02	9.3E-02	5.94	6.4	0.0	0.0	c	
	Dibenz[ah]anthracene	3	6.5E-02	5.2E-02	9.8E-02	0.8	0.84	0.1	0.1	c	
	Fluoranthene	3	1.4E-01	1.5E-01	3.0E-01	11	15	0.0	0.0	c	
	Indeno[1,2,3-cd]pyrene	3	6.5E-02	5.2E-02	9.8E-02	4.12	5.3	0.0	0.0	c	
	Pyrene	3	1.3E-01	1.5E-01	2.9E-01	8.8	16	0.0	0.0	c	
	Benzo[ghi]perylene	3	6.5E-02	5.2E-02	9.8E-02	4.02	5.2	0.0	0.0	c	
	Total LPAH	3	2.3E-01	2.8E-01	5.6E-01	6.6	9.2	0.1	0.1	c	
	Total Benzofluoranthenes[ND=1/2DL]	3	8.0E-02	2.6E-02	9.8E-02	11	14	0.0	0.0	c	
Beach	Aluminum	1	1.1E+04	NA	1.1E+04	--	--	--	--	--	
	Antimony	1	5.2	NA	5.2	0.4	0.6	1.3E+01	8.7	c	*
	Arsenic	1	4.1	NA	4.1	20	51	2.1E-01	8.1E-02	c	
	Cadmium	1	1.0E-01	NA	1.0E-01	0.6	1	1.7E-01	1.0E-01	c	
	Chromium	1	2.5E+02	NA	2.5E+02	95	100	2.6	2.5	c	*
	Copper	1	2.5E+01	NA	2.5E+01	80	830	3.2E-01	3.1E-02	c	
	Lead	1	9.8	NA	9.8	335	430	2.9E-02	2.3E-02	c	
	Mercury	1	3.5E-02	NA	3.5E-02	0.5	0.75	6.9E-02	4.6E-02	c	
	Nickel	1	1.4E+02	NA	1.4E+02	60	70	2.3	2.0	c	*
	Silver	1	1.5E-01	NA	1.5E-01	2	2.5	7.5E-02	6.0E-02	c	
	Vanadium	1	4.0E+01	NA	4.0E+01	--	--	--	--	--	
	Zinc	1	8.3E+01	NA	8.3E+01	140	160	5.9E-01	5.2E-01	c	
	2,4-Dimethylphenol	1	8.5E-02	NA	8.5E-02	0.029	0.029	2.9	2.9	d	*
	2-Methylphenol	1	8.5E-02	NA	8.5E-02	0.063	0.063	1.3	1.3	d	*
	4-Methylphenol	1	2.1E-01	NA	2.1E-01	0.67	0.67	3.1E-01	3.1E-01	d	
	Phenol	1	7.8E-02	NA	7.8E-02	0.42	1.2	1.9E-01	6.5E-02	d	
	Pentachlorophenol	1	3.9E-02	NA	3.9E-02	0.36	0.69	1.1E-01	5.7E-02	d	
	Bis[2-ethylhexyl]phthalate	1	8.5E-02	NA	8.5E-02	0.23	0.32	3.7E-01	2.7E-01	c	
	Butylbenzylphthalate	1	8.5E-02	NA	8.5E-02	0.26	0.37	3.3E-01	2.3E-01	c	
	Dimethylphthalate	1	8.5E-02	NA	8.5E-02	0.046	0.44	1.8	1.9E-01	c	*
	BenzoicAcid	1	8.5E-01	NA	8.5E-01	0.65	0.65	1.3	1.3	d	*
	BenzylAlcohol	1	8.5E-02	NA	8.5E-02	0.057	0.073	1.5	1.2	d	*
	Dibenzofuran	1	1.3E-02	NA	1.3E-02	0.4	0.44	3.3E-02	3.0E-02	c	
	Acenaphthene	1	8.5E-02	NA	8.5E-02	1.06	1.32	8.0E-02	6.4E-02	c	
	Acenaphthylene	1	1.3E-02	NA	1.3E-02	0.47	0.64	2.8E-02	2.1E-02	c	
	Anthracene	1	3.0E-02	NA	3.0E-02	1.2	1.58	2.5E-02	1.9E-02	c	

Table G-6. Sediment Exposure Point Concentrations (mg/kg) and Hazard Quotients (dimensionless) by Area

Area	Analyte	Statistics				EICs		HQs		Source	Potential COPEC ^b
		n	mean	SD	EPC ^a	SQS	CSL	SQS	CSL		
	Fluorene	1	8.5E-02	NA	8.5E-02	1	3	8.5E-02	2.8E-02	c	
	Naphthalene	1	1.9E-02	NA	1.9E-02	0.5	1.31	3.7E-02	1.4E-02	c	
	Phenanthrene	1	2.2E-02	NA	2.2E-02	6.1	7.6	3.7E-03	2.9E-03	c	
	2-Methylnaphthalene	1	2.5E-02	NA	2.5E-02	0.47	0.56	5.3E-02	4.5E-02	c	
	Benz[a]anthracene	1	8.5E-02	NA	8.5E-02	4.26	5.8	2.0E-02	1.5E-02	c	
	Benzo[a]pyrene	1	6.2E-02	NA	6.2E-02	3.3	4.81	1.9E-02	1.3E-02	c	
	Chrysene	1	6.8E-02	NA	6.8E-02	5.94	6.4	1.1E-02	1.1E-02	c	
	Dibenz[ah]anthracene	1	8.5E-02	NA	8.5E-02	0.8	0.84	1.1E-01	1.0E-01	c	
	Fluoranthene	1	4.1E-02	NA	4.1E-02	11	15	3.7E-03	2.7E-03	c	
	Indeno[1,2,3-cd]pyrene	1	5.2E-02	NA	5.2E-02	4.12	5.3	1.3E-02	9.7E-03	c	
	Pyrene	1	5.0E-02	NA	5.0E-02	8.8	16	5.7E-03	3.2E-03	c	
	Benzo[ghi]perylene	1	4.9E-02	NA	4.9E-02	4.02	5.2	1.2E-02	9.3E-03	c	
	LPAH [ND = 1/2 DL]	1	2.8E-01	NA	2.8E-01	6.6	9.2	4.2E-02	3.0E-02	c	
	Total Benzofluoranthenes [ND = 1/2 DL]	1	1.1E-01	NA	1.1E-01	11	14	9.9E-03	7.8E-03	c	

Notes: ^a EPCs were maximum values, Student's t-test UCL95s, or UCL95s calculated by Land's method, depending on the data distribution and UCL values.

^b Metals eliminated by background evaluation were still included in screening for information purposes

^c EIC are WSDOE Freshwater SQS and CSL.

^d EICs are WSDOE Marine SQS and CSL.