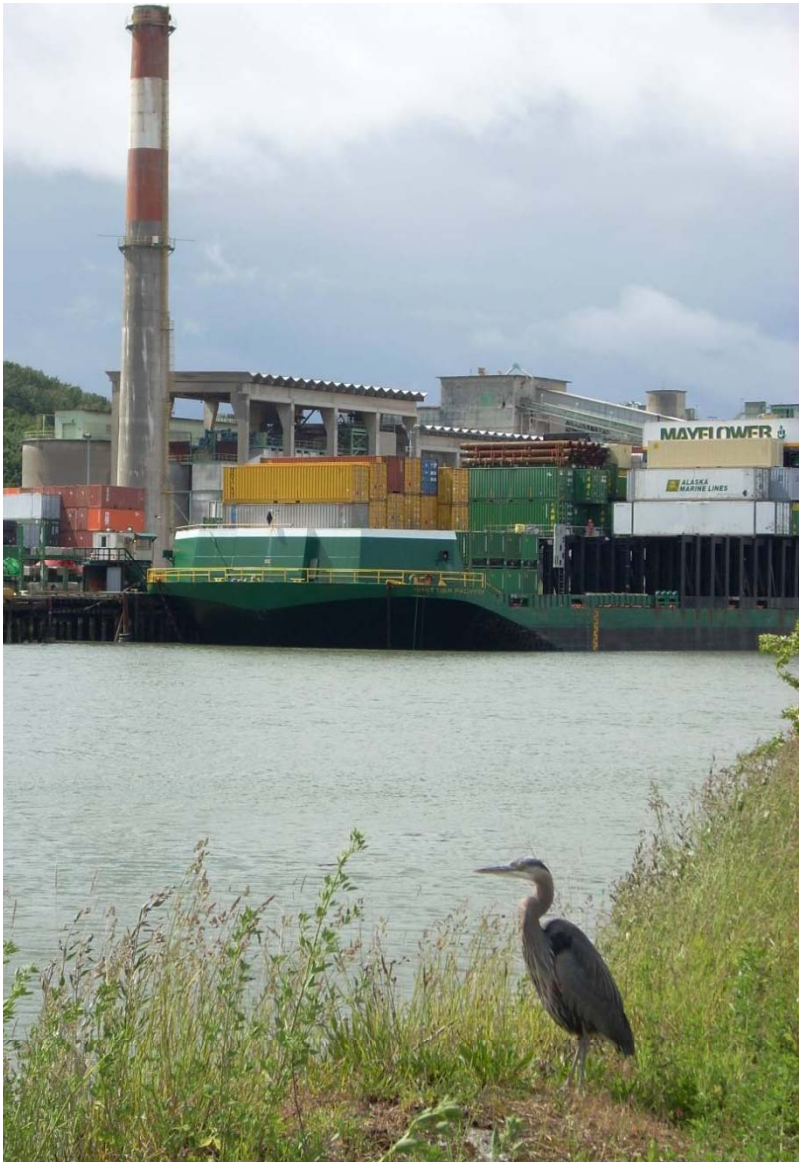
Seattle Public Utilities Source Control Program for the Lower Duwamish Waterway

December 2010 Progress Report



City of Seattle
Seattle Public Utilities

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INTRODUCTION

This report describes the status of source control activities completed by Seattle Public Utilities (SPU) from July 2005 through September 2010 as part of the Lower Duwamish Waterway (LDW) Superfund cleanup. SPU's source control program in the LDW consists of inspecting businesses in areas discharging to the waterway to enforce City codes regarding pollution prevention practices and pollution reduction; and collecting samples (sediment) in the storm drain and combined sewer systems to identify and control potential sources of contamination to City-owned infrastructure.

During previous reporting periods (January 2003 through June 2005), work focused on the Diagonal/Duwamish, Norfolk, Slip 4, Terminal 117, early action areas 1 (Duwamish/Diagonal), 3 (Slip 4), 5 (Terminal 117), and 6 (river mile 3.7 to 3.9 east). During this reporting period, work expanded to cover early action area 2 (Trotsky inlet) as well as many of the other source control areas that have been defined by the Washington State Department of Ecology (Ecology). Early action area 4 (river mile 2.8 to 3.7 east) covers areas that discharge directly to the waterway via private storm drain systems. As a result, SPU did not participate in source control efforts in this area. The seven early action areas were identified in the Remedial Investigation using a risk-based approach to identify high-priority areas for which remedial actions could be initiated prior to completion of the RI/FS process. Ecology divided up the rest of the waterway into 17 source control areas to organize source control activities. Early action areas and source control areas are shown in Map 1.

Source control activities conducted during this reporting period are summarized below:

- Conducted re- inspections at high-priority businesses in the Diagonal Ave S CSO/SD basin.
- Inspected businesses and conducted source tracing in the following areas:

  Early Action Areas
  - Duwamish/Diagonal (river mile 0.1 to 0.9 east)
  - Slip 4 (river mile 2.8 east)
  - Norfolk (river mile 4.9 east)
  - Trotsky Inlet (river mile 2.1 to 2.2 west)
  - Terminal 117 (river mile 3.4 to 3.8 west)

  Source Control Areas
  - Slip 1 (river mile 0.9 to 1.0 east)
  - Saint Gobain to Glacier Northwest (river mile 1.2 to 1.7 east)
  - Slip 2 to Slip 3 (river mile 1.7 to 2.0 east)
  - Slip 3 to Seattle Boiler Works (river mile 2.0 to 2.3 east)
  - Seattle Boiler Works to Slip 4 (river mile 2.3 to 2.8 east)
  - Spokane St to Kellogg Island (river mile 0 to 0.1 west)
  - Kellogg Island to Lafarge (river mile 0.1 to 1.3 west)
  - West Glacier Bay (river mile 1.3 to 1.6 west)
  - West Terminal 115 (river mile 1.6 to 2.1 west)
  - Riverside Drive (river mile 2.2 to 3.4 west)

- Sea King Industrial Park (river mile 3.8 to 4.2 west).

- Participated in the Local Source Control Specialist program under a contract with Ecology.
- Cleaned 3,500 drainage structures (i.e., catch basins and slot drains located within the public right-of-way in the Diagonal Ave S CSO/SD drainage system (2007-2008).
- Jetted approximately 800 feet of pipe in the Diagonal Ave S CSO/SD drainage system on Airport Way S downstream of the Rainier Commons property to remove all residual PCB-contaminated sediment from the system. Approximately 3 cubic yards of sediment was removed from the Diagonal Ave S CSO/SD system. Property owner also jetted and cleaned approximately 200 feet of pipe in the private system (January 2008).
- Jetted the storm system (approximately 4,100 feet of pipes and approximately 30 catch basins/inlets) in the Brighton Ave S CSO/SD (separated storm drain west of E Marginal Way S), all of the S Myrtle St SD, and all of the S Garden St SD systems (December 2009-January 2010). Approximately 35 cubic yards of sediment was removed.
- Collected nine rounds of samples from the six sediment traps in the Diagonal Ave S CSO/SD and eight rounds from the three traps in the Slip 4 storm drains that SPU is responsible for maintaining. SPU also deployed five sediment traps in the Norfolk CSO/EOF/SD system in 2007. As of September 2010, four rounds of samples have been collected.
- Installed inline sediment traps at 20 locations in 10 other large municipal storm drain systems discharging to LDW with funding under an interagency agreement with Ecology. As of September 2010, one to two rounds of samples have been collected.
- Continued collecting sediment samples from storm drains to characterize pollutant contributions and identify potential sources to city-owned storm drains that discharge to the LDW. Collected 103 samples from onsite catch basins, 110 from catch basins located in the public right-of-way, and 130 inline grab samples
- Completed a solids loading analysis for storm drains and city-owned CSOs in the LDW using the source data collected as part of the City's source control program to support the sediment transport model developed for the RI/FS (SPU 2008).
- SPU staff that worked on the project during the July 2005 through September 2010 reporting period are listed in below:

  Tasha Bassett (inspections)
  Mike Hinson (sampling)
  Mike Jeffers (inspections and sampling)
  Kevin McCracken (sampling)
  Brian Robinson (inspections, sampling, and data management)
  Beth Schmoyer (program lead)
  Ellen Stewart (inspections and sampling)
  Tanya Treat (inspections, sampling, and data management)
  Ryean-Marie Tuomisto (inspections)
  Savina Uzunow (inspections and sampling)

This progress report is organized by geographic area. The first section provides an overall summary of work completed during the July 1, 2005 to September 30, 2010 reporting period and describes Lower Duwamish Waterway wide activities. Subsequent sections describe source control activities in each of the early action areas and the Ecology-defined source control areas where work occurred this reporting period.

OVERVIEW OF LOWER DUWAMISH WATERWAY-WIDE SOURCE CONTROL ACTIVITIES

To support sediment remediation efforts in the LDW, Seattle Public Utilities (SPU) is working to reduce the amount of pollution discharged to public storm drains and sanitary/combined sewers that discharges to the waterway. The purpose of this source control program is to reduce the potential for waterway sediment to become recontaminated to levels of concern following cleanup. SPU is a key member of the Lower Duwamish Source Control Working Group because it manages a portion of the public stormwater and wastewater systems that discharge to the Lower Duwamish Waterway.

The City owns and operates a municipal stormwater collection/conveyance system, which serves an area of approximately 5,700 acres that discharges to the LDW. The City also owns and operates the local sanitary/combined sewer system in Seattle. This system collects stormwater runoff and sanitary sewage, and routes it to the large interceptor sewers that convey flow to the wastewater treatment plant at West Point. King County owns and operates the larger interceptor system and the treatment plant. The sanitary/combined sewer and storm drain service areas that discharge to the Lower Duwamish Waterway are shown in Map 2. The sanitary/combined sewer and storm drains serve an area of about 19,800 and 8,936 acres, respectively.

Land use in the LDW combined sewer service area and storm drain basins is summarized in Table 1 and shown in Map 3.

Table 1: Land use in the LDW combined sewer service area and storm drain basin.

	Combined Sewer Service Area		Storm Drain	
	(acres)	(percent)	(acres)	(percent)
Commercial	1,794	9	528	6
Industrial	3,317	17	2,575	29
Multi-family residential	1,160	6	255	3
Open space/park	580	3	1,322	15
Right-of-way	5,023	25	2,315	26
School	442	2	170	2
Single family residential	7,437	38	1,770	20
Total	19,753	100	8,935	100

The LDW drainage basin contains a relatively higher proportion of industrial land use than the combined sewer service area, and a low proportion of single family residential property.

As shown in Map 4, a number of both public and private outfalls discharge to the LDW. Outfalls can generally be divided into the following categories.

- Public storm drains. Public storm drain systems collect and convey stormwater runoff from roadways and upland properties to the waterway.
- Private storm drains. Waterfront properties are generally served by private onsite drainage systems that discharge directly to the waterway, although some of these

private systems are connected to the public storm drain system. These private systems are generally smaller than public storm drains and are owned and maintained by the private property owner.

- Combined sewer overflows (CSO). CSOs are located on the combined sewer system to release excess flows that occur during large storm events. Combined sewers collect both stormwater runoff and municipal/industrial wastewater. During large storm events, the capacity of the collection pipes can be exceeded due to the large amount of stormwater runoff entering the system. Overflow points are provided to prevent stormwater and wastewater from backing up and flooding roadways and adjacent properties. CSOs can discharge directly to the waterway via a dedicated outfall pipe (CSO) or via an outfall that is shared with a nearby storm drain system (CSO/SD).
- Emergency overflows. Like CSOs, emergency overflows are relief points in the sanitary/combined sewer system. However, emergency overflows are not related to storm events. Instead, these overflows function to relieve backups that occur as a result of a pump station failure or obstruction in the conveyance system.
- Unknown outfalls. Approximately 39 piped outfalls of unknown origin discharge to the LDW. These outfalls are most likely private storm drains that serve waterfront properties, but may also include other systems such as industrial discharges.

Business Inspections

Inspections are being conducted under existing Seattle code authority. SPU has primary authority to regulate stormwater discharges to the municipal separated storm sewer system (MS4) within the City limits. King County regulates stormwater discharges in unincorporated areas of King County and on the King County International Airport. King County also has primary authority in the industrial waste and hazardous waste areas throughout King County, including within the City of Seattle. The City and the County share code authority to regulate stormwater discharges to the combined sewer. Because of overlapping and different authorities between the City and County regarding discharges to combined areas, project staff developed specific guidance for inspecting businesses in the combined areas. The goal for inspecting stormwater dischargers in combined areas is to minimize discharge of chemicals of concern to the combined sewer by preventing the accidental or deliberate discharge of concentrated products or wastes to the combined sewer. Inspection procedures are described in Appendix A.

Prior to 2006, both SPU and King County participated in a joint program to inspect businesses in areas that discharge to the LDW through either the City-owned storm drain system or the combined sanitary/storm sewer system. However, since 2006, SPU has taken the lead in the LDW business inspection program. King County continues to inspect businesses that are permitted under its Industrial Waste Program and provides technical assistance to SPU as needed on issues related to industrial waste and hazardous waste.

Summary for the July 2005-September 2010 Reporting Period

Businesses inspected from July 2005 through September 2010 are listed in Appendix B, Table B -1. During this reporting period, SPU completed 546 full inspections, 67 screening inspections, and 608 follow-up inspections at 374 sites in the LDW project area. Businesses

inspected during the reporting period and since the beginning of the source control program, are shown in Map 5. A list of businesses inspected prior to July 2005 is provided in Appendix B, Table B-2. Corrective actions were required at 263 (70 percent) of the sites that were inspected this reporting period.

Since the LDW source control program began in about March 2003, inspectors have completed 1,157 full inspections, 371 screening inspections, and 1,145 follow up inspections at 1,276 sites in the LDW. Corrective actions were required at 684 (54 percent) of the businesses inspected. Figure 1 provides a summary of corrective actions required to date for each of the four main regulatory program areas (e.g., hazardous waste, industrial waste, spill prevention, stormwater).

The SPU business inspection data base tracks 26 different corrective actions across four different regulatory program areas. A breakdown of corrective actions requested within each program area for each subbasin is provided in Appendix B, Table B-3. Corrective actions required at each business are listed in Appendix B, Table B-4.

The four most common corrective actions are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	17%
Improve or purchase adequate spill response materials:	14%
Properly educate employees about spill response procedures:	13%
Storm drain facility needs to be cleaned:	12%

Highlights of some of the more significant problems found during this reporting period are provided below:

1. Manufacturer of industrial products (river mile 1.0 to 1.3 west.) 5430 W Marginal Way SW. In 2006, SPU inspectors found PCBs in an onsite catch basin (2.5 mg/kg dw). After extensive sampling, the PCBs were traced to a green solid material (7 mg/kg dw) found in the system. This material may have been residual paint that had been used on industrial skids and other equipment in the 1970s (Ledbetter 2007 personal communication). Runoff from this area discharges to the Duwamish Waterway at the southeast corner of the property. The company jetted their lines in 2007 to remove any residual material. The sump at the downstream end of the drainage system will be sampled to confirm that PCBs are no longer present in the system. SPU has requested that Ecology include PCB sampling as a requirement in the facility's NPDES industrial stormwater permit. In 2007, runoff from parking areas in the southwest portion of the property that used to discharge to the combined sewer on W Marginal Way SW, were rerouted to the onsite drainage system at the request of King County Industrial Waste.
2. Cement manufacturer (river mile 1.0 to 1.3 west). 5400 W Marginal Way SW. In 2006, SPU inspectors found an uncovered pile of spent sandblast grit stored along the fenceline on the south side of the property. Catch basin samples from the area contained elevated levels of copper (860-1,730 mg/kg). Inspectors had the company move the sandblast pile to another location on the site where stormwater can be collected and reused onsite.
3. Manufacturer of electrical products (river mile 3.8 to 4.2 west). 9131 10th Ave S. In 2008, SPU inspectors found a number of illicit connections and discharges to the City

storm drain system from hot tank, paint booth, and possible grinder machine coolant discharges. Sediment samples collected from onsite catch basins contained volatile organic compounds. Ecology fined the owner for the discharges and required them to map their onsite drainage system. SPU inspectors also worked with the property owner to implement appropriate corrective actions. The company has since applied for an NPDES permit. Follow-up actions may be needed to confirm the discharge location of one onsite catch basin. This site has been referred to Ecology to determine whether an NPDES industrial stormwater permit is required. Drainage basin mapping will be conducted to determine whether an NPDES permit is needed.

4. Cement manufacturer (river mile 0.0 to 0.1 east). 3801 E Marginal Way S. In 2008, SPU inspectors found that stormwater from this site is not pumped to the combined sewer system as reported by the property owner, but instead discharges to the City storm drain on E Marginal Way S, which discharges to the East Waterway via the Hinds CSO/SD outfall. The company has obtained an individual NPDES permit for the discharge.

5. Metal recycler (river mile 2.3 to 2.8 east). 601 S Myrtle St. In 2008, SPU received several complaints concerning a foamy discharge from the City's storm drain at S Garden St and tracked it back to the stormwater treatment system at the site. The business has an individual NPDES industrial stormwater permit and is currently investigating ways to improve the operation of their onsite treatment system. In 2008-2009, SPU collected sediment samples from catch basins in and around the property and found elevated concentrations of arsenic (58-1,420 mg/kg), copper (500-7,990 mg/kg), lead (472- 240 mg/kg), mercury (0.46-4.29 mg/kg), zinc (455-13,300 mg/kg), and PCBs (0.15- 25 mg/kg dw). In December 2009-January 2010, SPU jetted and cleaned all storm drain lines and associated structures in the vicinity of the property (all of the S Garden St and S Myrtle St storm drains and the portion of the S Brighton CSO/SD system located west of E Marginal Way S). The company is working with Ecology to comply with NPDES permit requirements and to implement corrective actions to reduce track out of material from the site.

6. Steel foundry (river mile 0.1 to 0.9 east). 3901 9th Ave S. SPU inspectors have been working with this property for a number of years. The company stored spent casting sand in the right-of-way (ROW) and had a quench tank in the ROW that occasionally overflowed onto the street. Runoff from this site discharges to the Diagonal Ave S CSO/SD system via both the separated storm and the sanitary sewer. In 2008, SPU issued a Notice of Violation for these activities. The company has removed the quench tank and has implemented improved waste management practices. They have also obtained an NPDES industrial stormwater discharge permit. The company has agreed to pave the portions of the right-of-way that have been damaged by heavy equipment so that this area can be swept to reduce trackout and is working with the Seattle Department of Transportation to obtain the necessary permits.

7. Barrel cleaning facility (river mile 0.1 to 0.9 east). 4716 Airport Way S. SPU has been working with this site for a number of years to reduce discharges to the city storm drain system on Airport Way S from barrel cleaning operations. Barrels are unloaded and pre-washed immediately adjacent to the roadway and operations often extend into the public ROW. The company has a permit with King County to discharge wastewater to the

sanitary sewer. However, because they often unload barrels in the ROW and pre-wash immediately adjacent to the ROW, they can also discharge to the storm drain system on Airport Way S. Elevated concentrations of mercury were found in a catch basin on Airport Way S (RCB36) just down gradient of the site (1.17 mg/kg) and in a manhole on S Snoqualmie St (MH18) downstream of the barrel storage area on 7th Ave S (1.02 mg/kg). A sample of sludge from the onsite wastewater treatment system at the Airport Way S site contained 21 mg/kg mercury. The company has modified barrel unloading area to prevent material from migrating into the right-of-way.

8. Marine cargo handling facility (river mile 0.1 to 0.9 east). 1 S Idaho St. Inspectors found a number of violations, including discharge of washwater to the storm drain from treatment system overflow and exterior maintenance/repair on lifts and chassis where oily sludge had accumulated on the pavement. In addition, elevated levels of copper (1,550 mg/kg) were found in catch basin CB138 in the area where copper coils for refrigeration units are maintained and cut. The treatment system overflow to the storm drain has been removed and a small cover has been installed over the maintenance area. The company has also relocated the copper coil cutting activities.
9. Transloading facility (river mile 0.1 to 0.9 east). 655 S Edmunds St. Inspectors worked with company to reduce the amount of materials (e.g., corn gluten, hay) entering the storm drain system. Company re-plumbed a small area to the sanitary sewer and designed a screen that could be put in place during unloading operations to control material from being blown into nearby catch basins.

Illicit Connections and Discharges

During the reporting period, illicit connections and illicit discharges to the storm drain system were found at 15 and 49 sites, respectively. Illicit connections are listed below in Table 3. To date, a total of 139 illicit connections/discharges have been discovered during the business inspection program (see Appendix C).

Industrial Wastewater Discharge Authorizations

All business inspections include a review of wastewater/process water production and disposal. Businesses discharging wastewater to the sanitary sewer without proper authorization from King County are referred to KCIW for additional review and issuance of a discharge authorization, as necessary. KCIW can issue four types of discharge authorizations depending on the type of business, the volume and characteristics of wastewater, and the potential risk to the wastewater collection and treatment system:

- Significant discharge: >25,000 gallons per day or federally regulated facility
- Major discharge: Generally 5,000 to 25,000 gallons per day and facility is not a federally regulated industry
- Minor discharge: Generally 1,000 to 5,000 gallons per day and facility is not a federally regulated industry
- Letter of authorization: Generally <1,000 gallons per day and facility is not a federally regulated industry.

A total of 31 sites were referred to KCIW for review and/or issuance of a discharge authorization. Sites referred to other agencies are listed in Appendix D.

Table 3: Illicit connections discovered and eliminated during July 2005 to September 2010 reporting period.

Business	Address	Description
All Metal Arts	7800 7th Ave S	Internal sink connected to storm
Boom Boys Cranes LLC	7400 8th Ave S	Floor drain connected to storm
Fog Tite, Inc.	4819 W Marginal Way SW	Process wastewater connected to storm
Heko Services, Inc.	7400 8th Ave S	Floor drain connected to storm
MacMillan Piper Inc.	655 S Edmunds St	Sanitary connection to storm
McKinstry Company	5005 3rd Ave S	Sanitary connection to storm
Puget Sound Coatings	9220 8th Ave S	Sanitary connection to storm
Saint Gobain Containers LLC	5801 E Marginal Way S	Floor drains connected to storm
Starline, Inc.	9801 Martin Luther King Jr. Way S	Waste dump station, wash pad, and shop wastewater system connected to storm
Twinline Motorcycles LLC	2106 S Holgate St	Internal drain to storm
Union Pacific Railroad	402 S Dawson St	Maintenance shop floor drains connected to storm
King Electrical Manufacturing Co.	9131 10th Ave S	Paint booth connected to storm
Dead Center Cycles	2226 Occidental Ave S	Sink and toilets connected to storm
ConGlobal Industries	1 S Idaho St	Overflow from pre-treatment system on sanitary sewer to storm
Veterans Administration Medical Center	1660 S Columbian Way	Trash compactor drained to storm

Source Tracing and Identification

Source tracing and identification sampling activities are being performed to support the source control efforts. Source tracing sampling is designed to identify sources by strategically collecting samples at key locations within the drainage/combined sewer service areas. No single sampling methodology exists to effectively trace sources of contaminants to waterway sediment. Therefore, a variety of sampling techniques are used. Sediment rather than whole water samples are being collected, because sediment is expected to provide a more direct measure of potential chemical contributions to waterway sediment and is more cost effective than collecting stormwater samples. In addition, sediment that accumulates in the drainage system provides a measure of pollutant contributions over a longer time period (what has been deposited since the system was last cleaned), whereas water samples provide only a snapshot of a single storm event. Also, unlike whole water samples, sediment samples do not usually present detection limit problems for the analytical laboratory. Contaminants present in sediment can usually be quantified, which makes it easier to evaluate and interpret the sample results.

Sampling efforts utilize sediment samples collected from various locations within the storm drain system. Source sediment sampling enables SPU to maximize coverage of the LDW drainage basin and to gather information on the extent and location of contaminants within the drainage system. Each type of sample represents a different geographic scale and a different component of the sediment in the drainage system. The following three types of samples are used to track and identify pollutant sources in the LDW:

- Inline sediment traps
- Inline sediment grab samples
- Catch basin sediment.

Sample locations in the LDW are shown on Map 6. A list of sampling station locations is provided in Table DT-1.

There are no regulatory standards for catch basin sediment, inline sediment, and sediment trap samples. Results are compared to the state sediment management standards (SMS) and the Washington State Model Toxics Control Act (MTCA) Method A cleanup standards. Although these standards do not apply to storm drain sediments, they are used as benchmarks in this report to provide a rough indication of storm drain sediment quality. The SMS establish two levels:

- Sediment quality standards (SQS): Concentrations below the SQS are expected to have no adverse effects on biological resources and no significant human health risk.
- Cleanup screening level (CSL): Minor effects level used to identify areas of potential concern.

Comparison of storm drain sediment collected from catch basins, manholes, and sediment traps to SMS is considered conservative. If source sediment samples are below the SMS, there is little chance of sediment offshore of the outfalls becoming recontaminated to these levels. However, a concentration above the SMS does not necessarily indicate that the sediment offshore of the outfall will exceed standards, because sediment discharged from storm drain disperses in the receiving environment and mixes with sediment from other sources before depositing.
Total petroleum hydrocarbon (TPH) results from catch basin samples are compared to the MTCA cleanup levels to aid in assessing options for sediment disposal once it is removed from the catch basin.

Sediment Trap Samples

Sediment traps consist of a bracket mounted inside the stormwater conveyance system that contains a Teflon® bottle to passively collect suspended particulate material that passes by the sampling station (Figure 2). Sampling stations are selected to isolate specific drainage sub-basins or capture contributions from the entire drainage basin (generally greater than 50 ac). Sediment traps are typically installed first to identify potential problem areas within a drainage system and are followed up with more intensive sampling to identify specific contaminant sources (e.g., inline grabs and onsite catch basin samples).

Table 4 lists the numbers of sediment traps installed to date in LDW storm drains. See Map 7 for trap locations.

The 2008 trap installations were funded under an interagency agreement with Ecology. Most were installed in August-September 2008, although the traps in the S 96th St storm drain system were installed in December 2008. Sample results for traps retrieved through September 2010 are presented in data tables DT-2 through DT-5. To date, SPU has analyzed a total of 135 samples collected from 37 sediment traps (sample count does not include the samples Boeing collects in the North Boeing Field drainage system, see the Slip 4 early action section).

Table 4: Numbers of sediment traps installed in LDW storm drains.

Drainage System	Number of Traps	Year Installed
Diagonal Ave S CSO/SD	6	2003
King County Airport SD#3/PS 44 EOF	9	2005
I-5 SD at Slip 4	1	2005
Norfolk CSO/SD/PS 17 EOF	5	2007
King County Airport SD#1	1	2008
King County Airport SD#2/PS 45 EOF	1	2008
King County Airport SD at river mile 3.6[a]	1	2008 and 2009
SW Idaho St SD	3	2008
1st Ave S SD (west side of river)	4	2008
SW Kenny St SD/T115 CSO	1	2008
Highland Park Way SW SD	2	2008
7th Ave S SD	3	2008
S 96th St SD	3	2008
Hamm Creek	1	2008
Total	41	

a. Storm drain that crosses between Boeing and Jorgensen properties. Existing trap moved in January 2010 after King County replumbed this drainage system.

Inline Sediment Samples

Inline sediment samples are grab samples collected from maintenance holes located on the storm drain mainline. Like sediment traps, inline grab samples also represent contributions on a basinwide or sub-basin scale. However, inline grabs typically represent the heavier material that accumulates and is transported in the bedload material that moves along the bottom of the pipe. These samples are collected using a long handled scoop from quiescent areas where there is sufficient sediment present for chemical analysis. Inline sediment samples are usually collected prior to installing a sediment trap or prior to cleaning the drain to characterize the chemical quality of sediment in the storm drain system and are useful in tracing sources in storm drain systems that are not large enough to install a sediment trap.

During this reporting period, SPU collected 130 inline sediment samples from various locations in the following storm drain systems:

East Side of Waterway

- S Nevada St SD
- Diagonal Ave S CSO/SD
- S River St SD
- S Brighton CSO/SD
- S Myrtle St SD
- S Garden St SD
- KCIA SD#3/PS44 EOF
- I-5 SD at Slip 4
- 16th Ave S SD
- KCIA SD#2/PS45 EOF
- KCIA-Jorgensen SD
- KCIA SD#1
- Norfolk CSO/SD/PS#17 EOF
- WSDOT SD- S Ryan St

West Side of Waterway

- SW Idaho St SD
- SW Kenny St SD/T115 CSO
- Highland Park Way SW SD
- 1st Ave S SD (west side)
- 2nd Ave S SD
- S 96th St SD
- Hamm Creek

To date, a total of 187 inline sediment samples have been collected. Sample locations are shown on Maps 8-16 and results are summarized in data table DT-6.

Catch Basin Samples

Catch basin samples are grab samples of sediment that has accumulated in the catch basin. Catch basins are part of the stormwater collection system and collect runoff from a fairly small catchment area (<1 ac). These structures are equipped with a small sump to capture sediment and other large debris before it can enter the stormwater conveyance system. Because many pollutants present in urban stormwater runoff tend to adhere to sediment, catch basins can also trap pollutants. The sediment that accumulates in catch basins provides a qualitative measure of the quality of the stormwater runoff discharged from a specific location. Catch basin samples are collected either from a specific site or property (onsite) or from the public right-of-way (ROW).

Onsite catch basin samples are collected at sites of interest identified during the business inspections to check for potential contaminants or simply at sites where sufficient sediment was available for chemical analysis to characterize chemical contributions from private systems discharging to the city-owned storm drain system. Because public roadways make up a large portion of the land area that drains to the LDW, samples are also collected from catch basins in the ROW to characterize chemical contributions from roadways.

During this reporting period, sediment samples were collected from 103 onsite and 111 right-of-way catch basins. To date, a total of 153 onsite and 157 right-of-way catch basin samples have been collected in the Lower Duwamish Waterway study area. Sample locations are shown in Maps 8-16. Results for all samples collected to date are provided in data tables DT-7 and DT-8.

Source Characterization and Tracing Results

This section provides comparison of sampling results for samples collected through June 2009. Data from SPU, King County (oil/water separators at King County International Airport), and The Boeing Company (sediment traps, inline grabs, and catch basin samples from North Boeing Field) were compiled and evaluated for the sediment transport/bed composition model. Data through 2009 are summarized in box plots presented in Figures 3-7. Maps showing the distribution of chemicals by specific ranges in concentrations are provided on Maps 17-21. The maps, referred to here as “dot maps” present the data from the three LDWG partners compiled through June 2009 plus SPU samples collected through September 2010. SPU data from the second half of 2009 and 2010 have just been validated and have not yet been evaluated in box plot format.

Source to source comparisons are complicated by possible biases introduced by the different sampling strategies employed for each source type. For example, onsite catch basin samples were collected primarily where problems were suspected either because of the kinds of activities conducted onsite or because of specific problems identified during business inspections. As a result, samples collected from onsite catch basins typically contain higher concentrations of chemicals than samples collected from right-of-way catch basins. Right-of-way catch basin and sediment trap samples which represent contributions from large drainage sub-basins are considered to be the most representative of typical urban runoff.

Arsenic

Arsenic data are summarized on Map 17 and Figure 3. Arsenic was detected in 52 percent of the storm drain solids samples collected through June 2009, but concentrations were relatively low, with only 5 percent of the samples exceeding the sediment quality standard (SQS, 57 mg/kg dw) and only 3 percent exceeding the cleanup screening level (CSL, 93 mg/kg dw). Elevated levels of arsenic were found at the following locations:

- S River St storm drain (MH211, 220, and 235). Source tracing was unsuccessful. SPU jetted and cleaned the entire system in December 2010 and will resample in 2011-2012 to determine whether there are ongoing sources of arsenic in this area.
- S Brighton CSO/SD storm drain system (MH223, 227). Source tracing was unsuccessful. SPU jetted and cleaned the entire system between December 2009 and January 2010 and will resample in 2011-2012 to determine whether there are ongoing sources of arsenic in this area.
- S Garden St storm drain (CB157F). This sample was collected from a filter sock that was installed in a catch basin in a parking lot at a metal recycling facility. Runoff from this area discharges untreated to the City's S Garden St storm drain. SPU will request that Ecology include sediment sampling for arsenic in the upcoming revisions to this property's NPDES permit.
- 7th Ave S storm drain (CB137, RCB159). Arsenic was traced to a marine lumber storage yard. The company has worked with their supplier to obtain a drier product that is less susceptible to leaching, has moved most of the pressure-treated product to an adjacent site that is located in the combined sewer service area, and has covered most of the product remaining in the area that drains to the 7th Ave S storm drain. In addition, the company has swept and cleaned the affected yard area. However, contaminated soil remains in the right-of-way. In 2011-2012, SPU inspectors will work with Ecology and the property owner to removed arsenic-contaminated soil from the right-of-way.
- Diagonal Ave S CSO/SD (CB130 and CB58). Both catch basins are connected to the combined sewer system.
- KCIA SD #3/PS 44 EOF (SL4-T4). This sample is located on NBF, which is under an Ecology order to investigate and control sources in advance of the Slip 4 sediment cleanup. Although the order was issued primarily to control sources of PCBs, other chemicals are being investigated. Boeing has installed a stormwater treatment facility on this drainage system to remove PCBs, which should also be effective in removing arsenic.

Mercury

Mercury data are summarized in Map 18 and Figure 4. Mercury was detected in 64 percent of the storm drain solids samples collected through June 2009. Approximately 16 percent of the samples exceeded the SQS value and 14 percent exceeded the CSL. Elevated levels of mercury appear to be related to industrial and some commercial activities. Isolated hotspots have been found at a number of locations throughout the LDW (service station; auto supply store; auto repair; plumbing, heating, and air conditioning supplier; barrel cleaning operation; commercial

laundry/dry cleaner; metals recycling facilities; industrial machine and equipment manufacturer; bulk petroleum storage/terminal; brewery; retail store, health care facility).

The largest clusters of mercury contamination occurred at the following locations:

- S Garden St, S Brighton St, and S Myrtle St storm drains. Mercury appears to be related to a large metal recycler in the area. In 2009-2010, SPU conducted extensive source tracing in these two drainage systems and found elevated levels of mercury in many of the catch basins in the right-of-way adjacent to the site (0.42-1.08 mg/kg), as well as in onsite catch basins (0.8-2.72 mg/kg) and roof drains on the facility (0.92-2.56 mg/kg). SPU issued a Notice of Violation to the company in 2010, requiring them to implement improved BMPs to reduce track out of material onto adjacent streets and to address roof runoff. EPA is also conducting a small air study in the area and Ecology plans to revise the NPDES industrial stormwater permit at this site in 2011. Between December 2009 and January 2010, SPU jetted and cleaned all the pipes and associated structures in the storm drains in the area. A right-of-way catch basin adjacent to the property was re-sampled in 2010 and elevated levels of mercury were found again (0.66 mg/kg). SPU required the company to clean this catch basin (cleaning was completed in November 2010). Ecology intends to revise the company's NPDES industrial stormwater permit to address roof runoff concerns.
- KCIA SD#3/PS44 EOF. As described in the Slip 4 early action area section below, a number of catch basin and inline sediment samples contained elevated levels of mercury. The NBF area is under an Ecology order to investigate and control sources in advance of the Slip 4 sediment cleanup.
- Diagonal Ave S CSO/SD near S Snoqualmie St and Airport Way S. Mercury was first found in MH18 on S Snoqualmie St west of Airport Way S in 2004. SPU conducted extensive source tracing in this system in 2009, but did not identify a specific source, although contributions from a combined sewer overflow which ties into the drain at S Snoqualmie St and Airport Way S (#111G) are considered a potential source. SPU records indicate that this CSO has only overflowed four times in the past 10 years, and has not overflowed since 2007. Total overflow volume during that period was approximately 1.4 million gallons. SPU jetted and cleaned this line in December 2010 and will work with King County Industrial Waste to investigate discharges to the combined sewer system from a nearby barrel cleaning facility.

PCBs

PCB data are summarized on Map 19 and Figure 5. PCBs were detected in 84 percent of the storm drain solids samples collected through June 2009. Concentrations exceeded the lowest apparent effects threshold (LAET) value of 130 ug/kg dw in 67 percent of the samples and exceeded the second lowest apparent effects threshold (2LAET) value of 1,000 ug/kg dw in 41 percent of the samples. PCBs have been found in various building materials (e.g., paint, caulk, and other sealants) and there is also a continued global source from atmospheric deposition. Although PCBs are no longer manufactured, it is expected that the historical reservoir of PCB-containing materials will continue to act as a source to the LDW for many years.

Unlike other chemicals, PCBs exhibited a distinct geographic distribution, with hotspots identified at Terminal 117 (T117), Rainier Commons, North Boeing Field/Georgetown Steam Plant, and Boeing Plant 2/Jorgensen Forge (see Figure 5). The latter two areas have been sampled extensively and make up a significant portion of the overall source tracing data set. The Rainier Commons area does not have as large a dataset but it shows a distinctive hot spot when compared to other areas in the LDW.

With the exception of known problem areas (Rainier Commons, Terminal 117 and adjacent streets, and North Boeing Field), concentrations of PCBs in the different source samples (i.e., sediment traps, inline grabs, and catch basins) are fairly comparable, with average and median concentrations ranging from 20 to 927 ug/kg dw. PCB concentrations in the problem areas were higher, with average concentrations of 8,600-1,600,000 ug/kg dw and median concentrations of 757-758,000 ug/kg dw. A bar chart showing the distribution of PCBs in various source samples is provided in Figure 8. Excluding data from the known problem areas, approximately 50-60 percent of the source samples collected as of June 2009 contained less than 130 ug/kg dw total PCBs and 70-90 percent of the samples contained less than 400 ug/kg dw total PCBs.

HPAH

HPAH data are summarized on Map 20 and Figure 6. HPAH were detected in all of the storm drain solids samples collected through June 2009. Concentrations exceeded the lowest apparent effects threshold (LAET) value of 12,000 ug/kg dw in 24 percent of the samples and exceeded the second lowest apparent effects threshold (2LAET) value of 17,000 ug/kg dw in 18 percent of the samples. Unlike PCBs, HPAHs have many ongoing sources, primarily associated with combustion sources such as vehicle emissions, home heating oil use, and wood burning. As a result, HPAHs will continue to be deposited on roadways and other land surfaces in the basin, and transported to the LDW in urban runoff.

HPAHs are present at concentrations >100,000 ug/kg dw at various locations throughout drainage basins tributary to the LDW, typically in onsite drainage structures (catch basins and oil/water separators) at sites engaged in transportation-related activities (e.g., bus and airport operations), maintenance facilities, service stations, foundries, and fast food facilities. The highest concentrations (>1,000,000 ug/kg dw) occurred in samples collected from an oil/water separator at an oil recycling facility (CB42) and in a catch basin at a marine terminal (CB91). Elevated levels of HPAH were also found in a trap sample collected near the downstream end of the SW Idaho St storm drain. Land use in this basin is primarily residential. SPU intends to conduct additional source tracing in this storm drain in 2011-2012.

BEHP

BEHP data are summarized on Map 21 and Figure 7. BEHP was detected in 97 percent of the 616 source samples collected in the LDW drainage basin through September 2010 (includes samples collected by Boeing and King County through June 2009). BEHP concentrations in the source sediment samples varied over about three orders of magnitude (less than 100 to greater than 100,000 ug/kg dw). Average concentrations were higher in the onsite catch basin samples (32,900 ug/kg dw) and inline sediment from drains discharging to Slip 4 (31,500 ug/kg dw) than the other sources (1,500-8,500 ug/kg dw).

Miscellaneous Source Control Activities

Surface Water Quality Investigations

Between July 2005 and September 2010 SPU inspectors responded to 294 surface water quality issues in the Lower Duwamish Waterway study area. Information about water quality investigations is provided in Appendix E. Water quality concerns are reported either from SPU's hotline number for citizens (206/684-7587), or from internal or external agencies. The most common water quality issue involved automobile-related fluids such as gasoline, diesel, oil, and antifreeze (30 percent). The remaining issues involved a variety of materials including wash water, sewage, sediment, chemicals (paint, solvent, acid), and general flooding. Locations of water quality issues investigated during this reporting period are displayed on Map 22.

Spill Response

SPU maintains a 24-hour spill response team to control spills that occur throughout the City. Spills are reported through the SPU Operations Response Center 24-hour number (206/386-1800). Since mid-2007 (when records available in electronic format), SPU has responded to 118 spills in the area draining to the LDW. Information about spill response activities is provided in Appendix E. The most common complaint involved automobile-related fluids such as gasoline, diesel, oil, and antifreeze (31 percent). The remaining complaints involved a variety of materials including wash water, sewage, sediment, and chemicals (paint and unnamed chemicals). Locations of spills reported in the LDW between mid 2007 and September 2010 are displayed on Map 22.

Spill Kit Incentive Program

In 2004, SPU began a program offering free spill kits to local businesses that manufacture, store, use, or transport liquids as an incentive to improve onsite spill prevention and cleanup practices. This program is ongoing and continued through this reporting period. The kits contain two absorbent booms, sorbent pads, and a drain cover, as well as personal protective equipment. The program is being administered by Resource Venture, an SPU-funded conservation program for businesses. Participating businesses fill out a standard spill response plan available online at http://www.resourceventure.org/green-your-business/stormwater-pollution-prevention/spill-kits and receive a standard spill kit. The spill plan contains information about business activities that have the potential to contaminate stormwater, contact names for staff responsible for responding to spills, and basic instructions about spill notification, response, cleanup, and disposal procedures. After the spill plan is completed, the Environmental Coalition of South Seattle (ECOSS) delivers a spill kit to the business, offers technical assistance, and provides a laminated copy of the spill plan, facility map showing where the spill kit is stored, and a diagram showing how to dispose of hazardous and non-hazardous materials. The incentive program is available to all qualifying businesses in the City. To date, Resource Venture has distributed 289 spill kits to businesses in the LDW. Businesses that have received spill kits are listed in Appendix F.

Street Sweeping Pilot Study

In 2006-2007, the City of Seattle implemented a pilot project to evaluate street sweeping as a tool to reduce the amount of pollutants discharged to area receiving water bodies (SPU and

Herrera 2009). The pilot test was conducted using regenerative air sweepers at two residential test sites in West Seattle and Southeast Seattle-Columbia City, and one industrial site in the Diagonal/Duwamish drainage basin (Map 23). Testing began in the residential areas in June 2006 and concluded in June 2007. In the industrial area, testing began in November 2006 and concluded in June 2007. At each site, a 10 to 25 block area was divided into a control area and test area. In the test area, each side of the street was swept on alternating weeks, but the control area was not swept. Catch basin sediment, sweeper waste, and street dirt accumulations were measured every month from the test and control areas to determine the quantity of material removed by the sweeping effort. Samples of each media type (e.g., catch basin sediment, sweeper waste, and street dirt) were also collected every month and composited each quarter for chemical analysis of metals, semi-volatile organic compounds, polychlorinated biphenyls, grain size, and organic carbon.

Test results showed that street sweeping was effective in removing about 2,200 to 3,100 pounds of material per acre of street swept each year (SPU and Herrera 2009). Sweeping also reduced the amount of dirt per unit area of street in all three study areas. The amount of dirt on the street was 48, 74, and 90 percent less than the control (unswept sites) at the Diagonal/Duwamish, West Seattle, Southeast Seattle sites, respectively.

Sweeping can also reduce the amount of pollutants discharged from City streets to area receiving water bodies. Contaminants found in street dirt, sweeper waste, and catch basin samples included metals, petroleum hydrocarbons, PCBs, and phthalates. Chemicals that were above the Washington state sediment/soil standards and guidelines in the 45-55 samples analyzed included motor oil (82 percent), carcinogenic PAHs (78 percent), di-n-octylphthalate (65 percent), bis(2-ethylhexyl)phthalate (60 percent), PCBs (44 percent), butylbenzylphthalate (35 percent), di-n-butylphthalate (29 percent), zinc (18 percent), and chromium (15 percent).

PCBs were detected in about 50 percent of the samples with concentrations ranging from 19-1,300 mg/kg dw. The highest PCB concentrations were measured in two sweeper waste samples (1,300 µg/kg dry weight at West Seattle, and 910 µg/kg dry weight at Duwamish Diagonal). With the exception of the one sweeper waste sample from West Seattle, PCB concentrations in the Duwamish Diagonal study area (34 to 910 µg/kg dry weight) were typically higher than the concentrations measured in the two residential study areas (<19 to 73 µg/kg dry weight). Aroclor 1254 and Aroclor 1260 were the most commonly detected PCBs.

In addition to measuring mass removal rates and quantities, the pilot test was also conducted to evaluate whether street sweeping reduces the rate of sediment accumulation in catch basins, and thereby reduces the frequency that catch basins need to be cleaned. The results indicate that catch basins are relatively ineffective in removing sediment. Over the course of the pilot test, the mass of sediment accumulated in the catch basins accounted for only about 5-15 percent of the total mass removed from the streets. Sweeping did not significantly affect the amount or rate of sediment accumulation in catch basins (SPU and Herrera 2009).

In November 2010, the Seattle City Council approved a drainage rate increase to fund the initial phase of street sweeping to reduce pollution from City streets. This initial phase to begin in 2011, will optimize the Seattle Transportation Department's (SDOT) existing sweeping efforts by using high-efficiency sweepers instead of mechanical broom sweepers in the separated storm

drain system (MS4). In 2012, SDOT's sweeping program will be expanded to sweep additional industrial and arterial roadways using high efficiency sweepers.

DIAGONAL/DUWAMISH EARLY ACTION AREA (EAA-1)

The Diagonal Ave S CSO/SD is the largest outfall in the Diagonal/Duwamish Early Action Area. The combined sewer service area in the Diagonal Ave S CSO/SD system encompasses about 4,900 acres and the storm drain basin covers about 2,600 acres (see Map 8). Both systems share the same outfall. There are nine separate combined sewer overflow points in the Diagonal CSO system, Seattle operates eight overflow structures and King County operates one overflow structure. Overflow locations within the Diagonal system are shown on Map 24.

Locations on Map 8 where the combined sewer service and storm drain service systems overlap are known as partially separated areas. In these areas, stormwater runoff can discharge to either the separated storm drain system or the combined system, depending how the individual storm drain inlets are plumbed. In these areas, the roadways are usually plumbed to the separated storm drain system, but storm drains serving adjacent properties can be plumbed to either the combined or the separated storm system.

Land use in the Diagonal service area is a mix of residential, commercial, and industrial properties. As shown on Map 25, the western portion of the basin is predominately industrial and the eastern side is mostly residential. Commercial areas are generally located along the major transportation corridors, (e.g., Rainier Ave S and Beacon Ave S). Land use in the basin is summarized in Table 5.

Table 5. Land use in the Diagonal Ave S CSO/SD storm drain basin.

Land Use	Area (acres)	Percent
Single Family	500	19
Multi-family	106	4
Commercial	213	8
Industrial	498	19
Schools	21	1
Park/vacant	211	8
Open/forest	41	2
ROW	1,030	39
Subtotal	2,620	100

Business Inspections

A total of 480 inspections (211 full inspections, 17 screening inspections, and 252 follow-up inspections) were conducted at 208 businesses in the Diagonal Ave S CSO/SD system between July 1, 2005 and September 30, 2010. Inspections focused on high priority sites identified during the previous round of inspections conducted in 2003-2004. Sites were prioritized based on the number of problems identified during the last inspection cycle. Businesses that had three or more hazardous waste or stormwater-related corrective actions were identified as high priority. Select businesses that had two or more hazardous waste or stormwater-related corrective actions were also re-inspected.

A list of sites inspected during this reporting period is provided in Appendix B, Table B-1. Corrective actions that were required at each business are listed in Appendix B, Table B-4.

Since the program began in March 2003, inspectors have completed 733 full inspections, 281 screening inspections, and 716 follow up inspections at 871 sites in the Diagonal CSO/SD system. Inspection sites are shown on Map 5. Corrective actions have been required at approximately 46 percent of the businesses inspected. Numbers of corrective actions broken down by program area are summarized in Figure 2 for the period of record. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in the Diagonal Ave S CSO/SD are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	15%
Improve or purchase adequate spill response materials:	13%
Properly educate employees about spill response procedures:	12%
Storm drain facility needs to be cleaned:	16%

Illicit Connections and Discharges

Illicit connections discovered in the Diagonal Ave S CSO/SD system during this reporting period are summarized below in Table 6.

Table 6. Illicit connections discovered and eliminated in the Diagonal Ave S CSO/SD system (July 2005 – September 2010.

Business	Address	Date
Union Pacific Railroad	402 S Dawson St	06/27/07
McKinstry Company	5005 3rd Ave S	07/06/07
Veterans Administration Medical Center	1660 S Columbian Way	03/06/08
Twinline Motorcycles LLC	2106 S Holgate St	02/11/10
Davis Door Service, Inc.	2021 S Grand St	02/25/10
3512 Airport Way S	3512 Airport Way S	08/09/10

Source Sampling and Identification

During this reporting period, source samples were collected in the Diagonal Ave S CSO/SD system and the S Nevada St storm drain in Early Action Area 1.

In-Line Sediment Traps

Traps are installed at 6 sites in the Diagonal Ave CSO/SD system (see Map 8). Station locations were selected to isolate individual subbasins within the larger storm drain system. A total of 13 rounds of sediment trap samples have been collected to date:

- Round 1: February 2003 – August 2003
- Round 2: August 2003 – February 2004
- Round 3: February 2004 – August 2004
- Round 4: August 2004 – March 2005
- Round 5: March 2005 – August/November 2005

- Round 6: August/November 2005 – March 2006
- Round 7: March 2006 – September 2006
- Round 8: September 2006 – March 2007
- Round 9: March 2007 – August 2007
- Round 10: August 2007 – April 2008
- Round 11: April 2008 – September 2008
- Round 12: September 2008 – March 2009
- Round 13: March 2009 – April 2010

Results are tabulated in data tables DT-2 through DT-5 and select pollutants are summarized in box plot format in Figures 3-7. SPU removed the traps from the Diagonal system in April 2010, because contaminant levels in the traps have been fairly consistent over the past 5-6 years.

As summarized in Table 7, zinc, TPH-oil, PCBs, BEHP, LPAH, HPAH, 2-methylnaphthalene, butylbenzylphthalate, dimethylphthalate, 4-methylphenol, 2-methylphenol, benzoic acid, and benzyl alcohol concentrations were above the SMS/MTCA benchmarks in at least one onsite sediment trap sample collected during this reporting period.

PCB results for traps samples collected over the entire period of record are summarized on Figure 9. With the exception of samples collected in March 2006 from ST2 (3,250 ug/kg dw) and ST5 (1,107 ug/kg dw), total PCB concentrations are typically less than 1,000 ug/kg dw. The average of all sediment trap samples collected from the Diagonal Ave S CSO/SD is 262 ug/kg dw and the median value is 140 ug/kg dw.

PAH concentrations were highest at ST6 (16,400-127,580 ug/kg dw HPAH and 2,200-19,350 ug/kg dw LPAH). Nine of the 16 trap samples that were above the CSL for HPAH and five of the seven trap samples that were above the CSL for LPAH were collected from ST6. Station ST6 is located in a primarily residential area in the upper portion of the Diagonal Ave S CSO/SD drainage basin. Further source tracing will be conducted in this area in 2011.

Catch Basin Samples

Onsite Catch Basins

A total of 46 onsite catch basin samples were collected in the Diagonal Ave S CSO/SD system during this reporting period. To date, 74 onsite catch basin samples have been collected in this system. Results are tabulated in data table DT-7 and select pollutants are summarized in box plot format in Figures 3-7.

As summarized in Table 7, arsenic, copper, lead, mercury, zinc, TPH, PAH, PCBs, BEHP, butylbenzylphthalate, dimethylphthalate, di-n-butylphthalate, di-n-octylphthalate, 2,4-dimethylphenol, 2-methylphenol, 4-methylphenol, pentachlorophenol, phenol, benzoic acid, and benzyl alcohol concentrations were above the SMS/MTCA benchmarks in at least one onsite catch basin sample collected during this reporting period. Arsenic was elevated in 2 samples, one collected from a catch basin at a local trucking company (70 mg/kg) and the other collected from a sump at barrel cleaning facility (480 mg/kg); the sump is plumbed to the combined sewer system.

Copper was elevated in 7 samples (437-1,550 mg/kg) collected from catch basins at a local trucking company, barrel cleaning facility, health care facility, pipe manufacturer, and a marine cargo facility. The health care facility is no longer in operation; SPU inspectors are working with the property owner to clean the catch basins on the site. SPU is conducting additional source tracing at the pipe manufacturing facility to identify the source of copper. The catch basin containing elevated copper at the marine cargo facility is located in an area where refrigeration units/coils are repaired. SPU has worked with the facility to move maintenance operations indoors.

All of the samples containing elevated concentrations of PCBs were collected from catch basins on the Rainier Commons property. As described below, this system was cleaned in 2008. Since the system was cleaned, total PCB concentrations in 2 samples collected from the catch basin located adjacent to the site on Airport Way S (RCB37) were 390 and 400 ug/kg dw.

BEHP was elevated in most samples, but was extremely high (570,000-1,400,000 ug/kg dw) in two samples collected from catch basins at a health care facility and a restaurant. As noted above, SPU inspectors are working with the owner of the property that was formerly occupied by the health care facility to clean onsite catch basins. Inspectors have worked with the restaurant to stop washing filters and floor mats outside and will have the restaurant clean the onsite catch basins and resample to determine whether BEHP concentrations decline.

Right-of-Way Catch Basins

A total of 24 right-of-way catch basin samples were collected in the Diagonal Ave S CSO/SD system during this reporting period. To date, samples have been collected from 64 catch basins in the right-of-way. Results are tabulated in data table DT-8 and select pollutants are summarized in box plot format in Figures 3-7. As summarized in Table 7, arsenic, copper, lead, mercury, zinc, TPH, PAH, PCBs, BEHP, butylbenzylphthalate, dimethylphthalate, di-n-butylphthalate, 2,4-dimethylphenol, 4-methylphenol, and benzoic concentrations were above the SMS/MTCA benchmarks in at least one right-of-way catch basin sample collected during this reporting period:

Two of the samples collected during this reporting period were at RCB1 and RCB36 where previous samples found elevated levels of lead (1,370 mg/kg at RCB1) and mercury (0.87 mg/kg at RCB1 and 1.17 mg/kg at RCB36). These two catch basins were re-sampled in November 2008 following cleaning that occurred in 2007 (see cleaning discussion in following section). After cleaning, lead at RCB1 dropped to 220 mg/kg and mercury concentrations in both catch basins (0.2-0.26 mg/kg) were below SQS (0.41 mg/kg).

A potential source of mercury to the right-of-way along Airport Way S was identified by Ecology in 2008 (Jeffers 2009 personal communication), when 21 mg/kg mercury was found in sediment collected from an onsite sump at a barrel cleaning facility. This sump is not connected to the storm drain system. However, because barrels are pre-cleaned near or on the public right-of-way, there is potential for contaminants to enter the city storm drain on Airport Way S. The business has installed a berm and splash barriers to keep spray from washing operations onsite and out of the public drainage system.

Inline Sediment Samples

During this reporting period, SPU began re-sampling sections of the system that were jetted and cleaned in 2002-2004 to determine whether contaminant levels remained low after cleaning. Samples were collected from the S Dakota St line (T2A), the 1st Ave S line (MH17), and the mainline on S Snoqualmie St (MH18) where previous sampling found elevated levels of lead (538-4,910 mg/kg), mercury (1.02-3.3 mg/kg), zinc (460-718 mg/kg), and PCBs (940 mg/kg dw). Concentrations were below SQS in the two lateral lines, but lead (461 mg/kg), mercury (0.48 mg/kg), and zinc (534 mg/kg) were above the SQS in MH18 located on S Snoqualmie St. Source tracing did not identify a specific source of metals in the drainage system tributary to MH18. However, because MH18 is downstream of one of the combined sewer overflow structures (111G), contamination may be related to CSOs. CSO 111G does not frequently overflow, but an onsite catch basin located at a barrel cleaning facility in the combined sewer service area contained very high concentrations of mercury (21 mg/kg). SPU jetted and cleaned all the storm drain lines upstream of MH18 in December 2010. This area will be re-sampled later in 2011-2012 to determine whether metals continue to be a problem.

One inline sample (MH206) was also collected from the S Nevada St storm drain system. MH206 is the last maintenance hole before the outfall to the waterway. Zinc (489 mg/kg) exceeded the SQS benchmark. No other chemicals were above the SMS or MTCA benchmarks.

Source Control Actions

Diagonal Ave S CSO/SD catch basin cleaning

In 2007, SPU hired Bravo Environmental to clean all the catch basins located in the public ROW within the separated storm drain portion of the Diagonal Ave S CSO/SD system. Approximately 3,500 structures (catch basins and slot drains) were cleaned between August 2007 and March 2008. Approximately 560 tons of sediment (wet weight) was removed from the catch basins during the cleaning project.

Rainier Commons pipe cleaning

In 2004, SPU detected elevated concentrations of PCBs (17.5 mg/kg dw) in sediment collected from a catch basin on Airport Way S in the Diagonal/Duwamish basin (RCB37). Subsequent sampling traced the PCBs to the Rainier Commons property formerly occupied by the Rainier Brewery. Catch basins located on the northern portion of the property contained 0.2 to 1,340 mg/kg dw PCBs. The source of PCBs was identified as the exterior building paint which contained approximately 2,300 mg/kg dw PCBs (Vernon 2006). The buildings were pressure washed and repainted in 2005 and the catch basin in the ROW was cleaned in 2006. RCB37 was resampled in January 2008 and PCB concentrations were again elevated (2.3 mg/kg dw). SPU worked with the property owner to conduct additional cleaning of the onsite drainage system. In January 2008, Rainier Commons jetted the lines and cleaned the catch basins in the onsite drainage system that discharges to the Diagonal Ave S CSO/SD drainage system. At the same time, SPU also jetted the lines on Airport Way S immediately downstream of the property to remove any residual PCB contamination (approximately 750 feet of pipe and 11 structures). Results from samples collected from catch basin RCB37 in February 2009 and 2010, indicate that PCB concentrations have remained relatively low (390 – 400 ug/kg dw).

2010 Line cleaning

In December 2010, SPU hired Everson's Econo-Vac to jet and clean the Diagonal Ave S CSO/SD separated storm drain lines along Airport Way S and S Snoqualmie St to remove mercury-contaminated sediment. Approximately 8,400 feet of pipe and 55 structures were cleaned. As described earlier, source tracing has not identified a specific source, although combined sewer overflows that enter the storm drain system at S Snoqualmie St and Airport Way S could be contributing to the contamination. Elevated levels of mercury (21 mg/kg) were found in an onsite sump that discharges to the sanitary sewer at a barrel cleaning facility on Airport Way S. Following cleaning, this section of the Diagonal Ave S CSO/SD separated storm drain system will be monitored to determine whether sediments recontaminate with mercury.

TROTSKY INLET EARLY ACTION SITE (EAA-2)

The Trotsky area is located on the west side of the LDW at approximately river mile 2.1. SPU conducted inspections and source tracing in the Trotsky early action area during this reporting period. Work focused in the 2nd Ave S SD basin, which discharges to the south side of the embayment. The 2nd Ave S SD, serves an area of about 38 acres located east of W Marginal Way SW and north of S Austin St (see Map 15). Other outfalls discharging to this early action site include one private storm drain and the overflow from the City's West Seattle drinking water reservoir.

Business Inspections

SPU conducted 73 inspections (33 full inspections, 4 screening inspections, and 36 follow-up inspections) at 29 businesses in the Trotsky early action area between July 1, 2005 and September 30, 2010. A list of sites inspected during this reporting period is provided in Appendix B, Table B-1. Corrective actions that were required at each business are listed in Appendix B, Table B-4.

Since the program began in March 2003, inspectors have completed 34 full inspections, 4 screening inspections, and 39 follow up inspections at 30 sites in the Trotsky early action area. Inspection sites are shown in Map 5. Corrective actions were requested at approximately 73 percent of the businesses inspected. Corrective actions are summarized by program area are in Figure 1. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in the Trotsky early action area are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	19%
Improve or purchase adequate spill response materials:	9%
Properly educate employees about spill response procedures:	11%
Properly store product/waste material	8%

Source Sampling and Identification

During this reporting period, SPU collected 5 samples from 4 onsite catch basins (CB108, 116, 137, and 157), 2 inline sediment samples from the 2nd Ave S ditch (RCB110), and 11 right-of-way catch basin samples from the 2nd Ave S storm drain system. Sampling locations are shown on Map 15. Results are tabulated in data tables DT-2 through DT-8. As summarized in Table 8,

arsenic, copper, lead, mercury, zinc, TPH, LPAH, 2-methylnaphthalene, BEHP, dimethylphthalate, butylbenzylphthalate, and di-n-butylphthalate, 4-methylphenol, pentachlorophenol, and benzyl alcohol concentrations were above the SMS or MTCA Method A benchmarks in at least one of the samples collected during this reporting period. With the exception of right-of-way catch basin RCB109 (1,650 ug/kg dw), PCB concentrations were generally low, ranging from 20 to 359 ug/kg dw. SPU conducted extensive source tracing in this area, but did not find a specific source of PCBs.

In addition, 2,4-dinitrotoluene (29,000 ug/kg dw), 2,6-dinitrotoluene (490 ug/kg dw), and n-nitrosodiphenylamine (24,000 ug/kg dw) were detected in a sediment sample collected from the 2nd Ave S ditch (RCB44) during the previous reporting period. Dinitrotoluene is used to make flexible polyurethane foams used in bedding and furniture. It is also used to produce explosives, ammunition, and dyes, as well as in air bags for automobiles (ASTDR 1999). N-nitrosodiphenylamine was used as a vulcanization retarder in the production of rubber, but it has not been used in the U.S. since the 1980s when more efficient chemicals were found to replace it (ATSDR 1993). The ditch was resampled in May 2007 and June 2010 (RCB110). Sample RCB110 contained 2,4-dinitrotoluene (6,400–9,300 ug/kg dw), n-nitroso-di-n-proplyamine (<700-780 ug/kg dw), and n-nitrosodiphenylamine (4,900-14,000 ug/kg dw).

SPU jetted and cleaned the storm drain lines in the 2nd Ave S drainage basin in December 2010 to remove contaminated sediment. Approximately 4,100 feet of pipe and 65 structures were cleaned. SPU also intends to explore options for cleaning the 2nd Ave S ditch, but because ownership of the ditch is uncertain, cleaning will be delayed. Prior to cleaning, additional source tracing will be conducted to identify the source of dinitrotoluene and n-nitrosodiphenylamine in this system.

SLIP 4 EARLY ACTION SITE (EAA-3)

The combined sewer service area in the Slip 4 basin encompasses about 6,200 acres and the storm drain basin covers about 493 acres. There are no storm-related combined sewer overflow discharges to Slip 4. The City (pump station 44) and King County (East Marginal Way pump station) both maintain emergency overflows on pump stations that discharge to Slip 4, but these pump stations overflow infrequently. The City pump station has not overflowed in the past 10 years (when the City started maintaining pump station records) and the King County pump station has not overflowed in the last 25 years. Both pump stations are equipped with emergency generators. Because discharges from the combined sewer service area are infrequent, source control work in Slip 4 focused on the separated drainage system.

Drainage basin boundaries in areas draining to Slip 4 have been updated since the previous progress report. Revised basin boundaries are shown on Map 11 and drainage basin areas are summarized below in Table 9.

Table 9: Slip 4 drainage basin area.

Storm drain	Area (acres)
King County Airport SD#3/PS44 EOF	296
I-5 SD at Slip 4	150
North Boeing Field SD	0.8
Georgetown flume	6
Boeing SD	17.6
Other private/direct discharges	22.6
Total	493

Land use in the basin is primarily industrial/commercial. Four public storm drains (King County Airport SD#3/PS44 EOF [formerly known as the Slip 4 storm drain], North Boeing Field storm drain [formerly known as the Slip 4 CSO/SD], Georgetown flume, and the I-5 storm drain) and nine private storm drains discharge to Slip 4. The parcel at the southeast end of the waterway, owned by First South Properties (7343 E Marginal Way S) was redeveloped in 2006. At that time, most of the existing storm drain outfalls were abandoned and all site runoff was routed through a Stormfilter® system prior to discharge to Slip 4.

The King County Airport SD#3/PS44 EOF, which drains the northern portion of the King County Airport, encompasses a large portion of the Slip 4 drainage area (296 acres). Emergency overflows from City pump station 44 also now discharge to this drain. The drainage system at the airport has been modified numerous times. In about 1985, runoff from approximately 90 acres at the north end of the airport that used to discharge to the Slip 4 CSO/SD was diverted to the Slip 4 SD (Striplin 2004). This diversion also included the emergency overflow from City pump station 44. The North Boeing Field storm drain (formerly the Slip 4 SD) now drains only about 1.7 acres on the north end of the airport.

The Georgetown flume, constructed in the early 1900s, originally discharged cooling water from the Georgetown Steam Plant to the Duwamish Waterway. Cooling water discharges to the flume stopped in the 1960s when the steam plant was shut down (Striplin 2004). Prior to about 1985, numerous storm drains and pipes from adjacent properties were also plumbed to the flume. At one time, runoff from an estimated 90 acres on the north end of the airport (North Boeing Field) as well as industrial wastewater discharged to the flume. In 1985-1987, Seattle City Light plugged all pipes entering the flume, except one 15-inch pipe from a Boeing yard (Striplin 2004). The flume currently drains an estimated 6 acres. Boeing redirected industrial stormwater discharges from Boeing to the King County Airport storm drain system in 2007-2008 in preparation for the City's flume removal project.

The I-5 drain collects runoff from approximately 1.5 miles of I-5 (approximately 55 acres), 44 acres of single family residential property located east of I-5, about 1-2 acres on the north end of the King County airport, and 25 acres of industrial land along Airport Way S. The small private drains that discharge to Slip 4 also serve mostly industrial and commercial areas immediately adjacent to the slip (approximately 40 acres).

Business Inspections

A total of 41 inspections (17 full inspections and 24 follow-up inspections) were conducted in the Slip 4 basin between July 1, 2005 and September 30, 2010. A list of sites inspected during this reporting period is provided in Appendix B, Table B-1. Corrective actions that were required at each business are listed in Appendix B, Table B-4.

Since the program began in March 2003, inspectors have completed 64 full inspections, 9 screening inspections, and 60 follow up inspections at 63 sites in the Slip 4 drainage basin. Businesses that have been inspected are shown in Map 5. Corrective actions were requested at approximately 71 percent of the businesses. Corrective actions are displayed by program area on Figure 1. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in the Slip 4 early action area are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	22%
Improve or purchase adequate spill response materials:	14%
Properly educate employees about spill response procedures:	20%
Storm drain facility needs to be cleaned	11%

Source Sampling and Identification

Sediment Trap Samples

In 2005, SPU installed sediment traps at the following 10 locations in the outfalls discharging to Slip 4 (see Map 11):

- **T1** (MH 422): Slip 4/King County airport drain, downstream end of the north and central laterals combined.
- **T2 and T2A**: (MH356 and MH 482): Slip 4/King County airport drain, south lateral (downstream and upstream of Boeing lease property)
- **T3 and T3A** (MH361 and MH19C): Slip 4/King County airport drain, north central lateral (downstream and upstream of Boeing lease property).
- **T4 and T4A** (MH221A and MH229A): Slip4/King County airport drain, south central lateral (downstream and upstream of Boeing lease property)
- **T5 and T5A** (MH363 and MH178): Slip 4/King County airport drain, north lateral (downstream and upstream of Boeing lease property)
- **T6**: I-5 storm drain located at the intersection of S Hardy St and Airport Way S.

Station locations were selected to isolate individual sub-basins within the larger storm drain system. SPU maintains traps T2A, T3A, and T6. The Boeing Company maintains the other traps, which are located on Boeing lease property. A total of 12 rounds of sediment trap samples have been collected as of September 2010 (Table 10).

Table 10: Slip 4 sediment trap retrieval dates (2005-2010).

Round	Collection Dates	SPU samples	Boeing samples
1	March 2005 – August 2005	✓	✓
2	August 2005 – March 2006	✓	✓
3	March 2006 – October 2006	✓	✓
4	October 2006 – January 2007	✓	✓
5	January 2007 – May 2007	✓	✓
6	May 2007 – October 2007		✓
7	October 2007 – March 2008	✓	✓
8	March 2008 – August 2008	✓	✓
9	August 2008 – December 2008		✓
10	December 2008 – April 2009	✓	✓
11	April 2009 – October 2009	✓	
12	October 2009 – April 2010	✓	✓

Sediment trap data are presented in data table DT-3. PCBs results in ug/kg dw for the period of record are summarized on Figure 10.

Although PCB concentrations have declined, the concentrations in samples collected from SL4-T1 and SL4-T5 are still above 1,000 ug/kg dw (3,950 and 2,100 ug/kg dw, respectively in the last samples collected in April 2010).

As shown below in Table 11, mercury concentrations were also above SQS in a number of the sediment trap samples. Concentrations above SQS (0.41 mg/kg) are shaded in gray and concentrations above CSL (0.59 mg/kg) are shaded in black.

Table 11. Mercury results for Slip 4 sediment traps (2005 through 2010).

Date	T1	T2	T4	T5A	T5
August 2005	**1.11**	NA	NA	**0.86**	**1.12J**
March 2006	**0.93J**	NA	0.4	0.27	**2.02**
October 2006	**8.3**	**0.6**	**0.6**	NA	**2.9**
January 2007	**3.65**	NA	0.4	0.15	**5.11**
May 2007	**2.66**	NA	NA	0.38	**1.8**
October 2007	**1.16J**	0.08W	**0.5**	0.4	**4.4**
March 2008	**0.43**	NA	0.21	0.14	**1.07**
August 2008	**2.64**	NA	NA	0.21	**0.6J**
December 2008	0.33	NA	NA	**0.58J**	**1**
April 2009	NA	NA	0.11W	**0.42**	**0.7**
April 2010	0.36	NA	0.37	0.31	0.34

- W = Sample results presented on a wet weight basis.
- J = Estimated value.

As shown in Table 12, concentrations of arsenic, copper, lead, mercury, zinc, TPH, dibenzofuran, PAH, BEHP, butylbenyzlphthalate, di-n-butylphthalate, di-n-octylphthalate, 2,4-dimethylphenol, 2-methylphenol, 4-methylphenol, pentachlorophenol, phenol, benzoic acid, and benzyl alcohol were also above the SMS/MTCA benchmark levels in several of the trap samples. The highest concentrations of arsenic (50-70 mg/kg) were found in two samples

collected at T4, while the highest concentrations of lead were found in traps T3A and T5A. Three of the eight samples collected from T3A (740-1,070 mg/kg) were above the CSL for lead (530 mg/kg). However, lead concentrations in the last 3 samples (April 2009 through April 2010) have been below 100 mg/kg. In addition, two of the ten samples collected from T5A (687- 962 mg/kg) were above the CSL and one sample (486 mg/kg) was above the SQS for lead (450 mg/kg). The most recent samples collected in April 2009 and April 2010, contained less than 300 mg/kg lead.

PAHs were elevated in about 40 percent of the sediment trap samples. T6 is the only trap that did not exhibit elevated levels of PAHs.

Phthalates, particularly BEHP and butylbenzylphthalate were elevated in most of the trap samples. In addition, di-n-octylphthalate was above the SMS benchmark in nearly 20 percent of the samples. All traps except T1, T3A, and T6 exhibited at least one di-n-octylphthalate exceedance.

Catch Basin Samples

Seven (7) onsite catch basin samples and 10 right-of-way catch basin samples were collected within the Slip 4 drainage basin during this reporting period (see Map 11). As summarized in Table 12, copper, zinc, TPH, PCBs, PAH, dibenzofuran, BEHP, butylbenzylphthalate, dimethylphthalate, 2,4-dimethylphenol, 4-methylphenol, benzoic acid, and benzyl alcohol concentrations were above the SMS/MTCA benchmarks in at least one catch basin sample.

ROW catch basin samples collected along S Myrtle St as part of the Georgetown Flume demolition project (RCB102 through RCB108) were analyzed only for PCBs. PCB concentrations (33-570 ug/kg dw) in all samples were below 1,000 ug/kg).

In addition, five (5) samples (RCB111 through RCB115) were collected from catch basins in the Georgetown neighborhood, immediately west of King County Airport (in the combined sewer service area between Ellis Ave S and Corson Ave S) to evaluate whether the PCB contamination found on North Boeing Field, extended into adjacent neighborhood. PCBs in the samples were low, ranging from 115 to 278 ug/kg dw.

Inline Samples

Two inline grab samples were collected in the Slip 4 drainage basin during this reporting period (SL4-T2A and MH32). There were no exceedances of SMS/MTCA benchmarks.

Source Tracing in the I-5 Storm Drain

In 2006-2007, SPU collected 5 samples in the I-5 storm drain system to determine whether there are ongoing sources of PCBs in this drainage system. Sample locations are shown on Map 11. Source tracing was conducted because the initial sediment trap sample collected in August 2005 from the I-5 storm drain contained 7,800 ug/kg dw PCBs. As shown below in Table 13, PCB concentrations were relatively low in the source tracing samples. In addition, PCBs have been low in subsequent sediment trap samples collected from this location (<58 to 320 ug/kg dw). Based on this information, there does not appear to be an ongoing source of PCBs in the I-5 storm drain system.

Table 13. PCB results from source tracing conducted in the I-5 storm drain in Slip 4.

Station No.	Date	Sample Type	Location	Total PCBs (ug/kg dw)
D071-041	1/18/07	Inline grab	Mainline on Ellis Ave S	28
D071-039	1/18/07	Inline grab	Mainline on Ellis Ave S	19
RCB50	2/10/06	ROW catch basin	16th Ave S at S Graham St	189
CB87	2/10/06	Inline grab	Ditch below Ultra Block	189
CB88	2/10/06	Inline grab	Ditch below Puget Sound Energy	310

Source Control Actions

Georgetown Flume

In 2009, Seattle City Light and SPU removed the flume and replaced it with a piped storm drain system. The new system serves the Georgetown Steamplant property, adjacent public roadways (S Myrtle St and S Willow St), and private property outside of North Boeing Field (e.g., west of the flume corridor). The total area draining to the new system is estimated at about 6 acres. Runoff from areas within the Boeing leased property that formerly drained to the flume has been rerouted to the King County Airport storm drain system. Contaminated sediment within the flume and contaminated soil around the flume was removed and disposed as part of the project.

RIVER MILE 2.8 TO 3.7 EARLY ACTION SITE (EAA-4)

Early Action Site 4 (Boeing Plant 2 to Jorgensen Forge) extends along the east side of the LDW from Slip 4 to the Jorgensen Forge property. SPU has not conducted inspections in this area because most of the area is occupied by The Boeing Company. However, in 2008, SPU installed a sediment trap (KCIAJ-ST1) in the storm drain that serves part of the central portion of the King County International Airport and discharges to the Duwamish Waterway via a 15-inch storm drain the runs between the Boeing and Jorgensen Forge properties. Funding for trap installation and sampling was provided by a grant from Ecology. Under the grant, SPU also collected six inline grab samples (MH201, 202, 203, 212, 213, and 214) and one right-of-way catch basin sample (RCB207) from the storm drain that runs along 16th Ave S. Sample locations are shown on Map 11.

The sediment trap installed at KCIAJ was sampled twice during this reporting period, in March 2009 and December 2009. Samples were analyzed only for PCBs, because there was a limited amount of sediment in the traps. Both samples contained elevated levels of PCBs (5,500 – 11,000 ug/kg dw total PCBs). This information has been provided to the King County International Airport for follow-up. This trap was relocated in January 2010 after King County modified drainage system to direct flow from this area to outfall KCIA SD#2/PS 78 EOF. The trap was moved approximately 50 feet east (downstream) to another maintenance hole in the system. SPU recently sampled the relocated trap as part of another grant with Ecology, but the results were not available at the time this report was prepared.

As summarized in Table 14, a number of chemicals were above the SMS or MTCA Method A benchmarks in the inline samples collected from the 16th Ave S storm drain system (mercury, zinc, TPH-oil, HPAH, PCBs, BEHP, butylbenzylphthalate, dimethylphthalate, phenol,

2-methylphenol, benzoic acid, and benzyl alcohol). SPU does not have access to areas outside the public right-of-way that drain to this system and will ask for Ecology support in completing the source tracing in this system.

TERMINAL 117 EARLY ACTION SITE (EAA-5)

The Terminal 117 (T117) early action site is located in the South Park neighborhood on the west side of the Lower Duwamish Waterway just south of the 16th Ave S Bridge. The upland areas draining to T117 are located in an area of South Park that lacked a formal drainage system. Because the streets were in poor condition, stormwater runoff typically ponded in the right-of-way or ran off onto adjacent properties. The total area draining to the T117 early action site is estimated at about 5 acres (Map 26) and consists of the now vacant Terminal 117 property owned by the Port of Seattle (former Malarkey Asphalt site), three small residential properties, an oil recycling facility that has been removed and is now vacant (Basin Oil), a manufacturing facility (formerly occupied by Seattle Chocolates and now leased by Umbria Coffee), and about 3 blocks of roadway (S Donovan St, 17th Ave S, and Dallas Ave S). The South Park marina is located on the waterfront on the north side of the T117 early action site and the Boeing South Park facility is located on the south side of T117. Surface runoff from these two properties discharges directly to the Duwamish Waterway via private storm drains.

Until late 2004, most of the runoff from the approximately 1.8-acre upland area between Dallas Ave S, 17th Ave S, and S Donovan St either entered a catch basin at the south end of the Port's T117 property (Port CB6) or sheet flowed across T117 and entered the Port's drainage system that discharges to the Duwamish Waterway. As a result of an interim source control action completed by the City of Seattle in December 2004, runoff from most upland areas outside of the Port property is now collected and discharged to the City's combined sewer system (King County and SPU 2005). Runoff from a small portion of the hillside along the south side of S Donovan St continues to discharge to the Port's drainage system.

Source Control Actions

Dallas Ave S Interim PCBs Cleanup

SPU continues to operate and maintain the temporary stormwater collection system installed as part of the interim cleanup conducted in 2004-2005. Stormwater is collected, stored in five 18,000 gallon tanks and released at a controlled rate to the combined sewer system via a maintenance hole located at S Donovan St and 17th Ave S. SPU has a discharge authorization with the King County Industrial Waste Program for this discharge and monitors stormwater quality each month, when discharging to the combined sewer. Data collected through October 2010 are summarized in Table 15. PCBs have only been detected in 6 of the 60 samples collected since the interim cleanup and have only been detected twice since February 2005 (0.12 ug/L in January 2008 and 0.073 ug/L in April 2010).

Stormwater from the storage tanks is normally discharged to the combined sewer but may be discharged to the Duwamish Waterway via the T117 onsite drainage system under the following conditions:

- Large storm events that exceed the capacity of the tanks (rainfall greater than about 2.5 inches)
- Continuous rainfall, when tanks cannot be drained between events.
- Freezing conditions when the tanks must be drained quickly to avoid damaging above ground piping.

Discharges to the river are infrequent and have occurred only about 16 times during the past 6 years.

Dallas Roadway Final Cleanup

The City intends to remove the PCB-contaminated soil in the public right-of-way and restore the streets. In 2007, EPA amended the T117 Administrative Order to include the streets along with the T117 upland and waterway sediment in the site cleanup project. In 2010, the Port of Seattle and the City completed a revised Engineering Analysis/Cost Analysis report (EE/CA) to incorporate the additional area and are currently developing a scope of work and schedule for design of the cleanup. The City intends to clean up the streets after the waterway sediment and T117 upland areas are remediated to avoid potential recontamination that could occur as contaminated soil/material from the T117 upland and waterway cleanups are transported offsite for disposal. After contaminated soil is removed, a permanent stormwater collection and treatment system will be installed and the roadway will be restored. Roadway cleanup is currently expected to occur in 2014-2015.

T117 Adjacent Streets Utility Cleaning

In March 2010, SPU re-sampled the combined sewer and temporary storm drain systems adjacent to T117. Sample results are provided in Table 16. Sample locations are shown on Map 27. With the exception of RCB183 (1,300 ug/kg dw PCBs), PCB concentrations were less than 1 mg/kg (280-670 ug/kg dw). Based on the results, EPA requested that SPU clean the catch basins and pipes, and sweep the streets in the area. The streets were swept in September 2010 and pipe cleaning (including the stormwater storage tanks) was completed in October 2010. SPU will continue to periodically sample sediment that accumulates in the drainage systems adjacent to T117 to monitor for PCBs.

BOEING ISAACSON/CENTRAL KCIA EARLY ACTION SITE (EAA-6)

The middle portion of the King County Airport (237 acres) drains to the LDW at the location of the former Slip 5 (which has been filled) via a 48-inch diameter storm drain. This outfall (KCIA SD#2/PS45 EOF) also serves as the emergency overflow for City pump station 45 on the City's sanitary sewer system. Pump station 45 has overflowed two times in the past 3 years. Total overflow volume is estimated at about 72,000 gallons.

Business Inspections

SPU inspected all the businesses on the King County International Airport during 2004-2005. One business was inspected in EAA-6 between July 1, 2005 and September 30, 2010 (a follow-up inspection at Western Metal Products, Inc. at 7696 Perimeter Rd S).

To date, a total of 48 inspections have been conducted at 31 businesses in EAA-6. Inspection locations are shown on Map 5. Corrective action(s) were required at 17 of the sites.

Corrective actions are summarized by program area on Figure 1. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in EAA-6 are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	34%
Improve or purchase adequate spill response materials:	20%
Properly educate employees about spill response procedures:	12%
Properly store product/waste material:	7%

Source Sampling and Identification

In 2008, SPU installed a sediment trap near the downstream end of KCIA SD#2/PS45 EOF. Since then, three inline grabs and two traps samples have been collected. In addition, samples were collected at one onsite catch basin (CB40), the pump station vault(CB208), and one right-of-way catch basin (RCB56) during this reporting period. Chemicals that exceeded the SMS/MTCA benchmarks include TPH-oil, BEHP, butylbenzylphthalate, PCBs, LPAH, and HPAH. As shown on below on Table 17, chemical concentrations exceeded the SMS/MTCA benchmarks in only three locations (KCIA2-ST1, RCB56, and CB40).

Table 17: Chemicals exceeding the SMS/MTCA benchmarks in samples collected from the KCIA SD#2/PS45 EOF.

Chemical	Units	KCIA2-ST1 (Trap)	KCIA2-ST1 (Inline)	RCB56[a] (5/31/06)	CB40[b] (12/3/09)	CB208[c] (6/3/09)
TPH-oil	mg/kg	<170	<120-1,500	**6,100**	**2,600**	<120
Total PCBs	ug/kg dw	<20	<19-**92**	<19	**3,400**	<20
BEHP	ug/kg dw	**190-210**	**32-88**	<13,000	**5,500**	**34**
Butylbenzylphthalate	ug/kg dw	<59	<20	<560	**500**	<20
Dimethylphthalate	ug/kg dw	<59	<20	**710**	<90	<20
LPAH	ug/kg dw	**696-1,793**	42-62	**1,900**	**32,400**	**106**J
HPAH	ug/kg dw	**7,370-15,280**	636-896	**18,360**	**283,500**	**1,125**
Dibenzofuran	ug/kg dw	<59-**42**	<20	<560	**1,100**	<20

Values shaded in gray exceed the LAET/MTCA benchmark. Values shaded in black exceed the CSL/2LAET benchmark.

a. Right-of-way catch basin
b. Onsite catch basin
c. Inline grab

RCB56 is a catch basin located on the south side of Airport Way S near the main entrance to the King County International Airport. CB40 is located at an airplane loading equipment repair facility. CB40 was first sampled in August 2004 and contained elevated levels of PCBs (6,600 ug/kg dw total PCBs). The tenant cleaned the catch basin in 2008. SPU re-sampled CB40 in

December 2009 and PCBs (3,400 ug/kg dw) exceeded the 1,000 ug/kg dw benchmark. As shown in Table 17, the recent sample also contained elevated levels PAHs and phthalates. This information has been forwarded to King County for investigation.

NORFOLK EARLY ACTION SITE (EAA-7)

The Norfolk early action site is located on the east side of the waterway, near the south end of the LDW Superfund site. Approximately 826 acres drain to the Norfolk site via the City's Norfolk outfall. This outfall also serves as a CSO for King County's interceptor system and functions as an emergency overflow for the City's sanitary sewer pump station #17. Pump station 17 overflowed once in 2010 (December 12) after the drainage system was repaired to prevent stormwater from backflowing into the sanitary sewer system. Total overflow volume on December 12 is estimated at approximately 2.3 million gallons.

SPU conducted inspections in the Norfolk basin in 2005-2008 and initiated source sampling in the basin in 2007. In addition to routine source control activities, SPU also began developing a capital improvement project (CIP) in 2005 to correct drainage problems in the Norfolk-Martin Luther King, Jr. Way S sub-basin (Norfolk-MLK Way). The Norfolk-MLK Way system serves approximately 224 acres of mixed residential, commercial, and industrial property on the southeast end of the Norfolk basin. An existing pipe located west of MLK Way collapsed and the ditch located along the east side of I-5 filled in with sediment which caused stormwater to back up and overflow into the sanitary sewer system. As reported during the previous progress report (King County and SPU 2005), accumulated sediment was removed from the piped section of the drainage system in advance of the CIP project and samples were collected to evaluate disposal options. Approximately 2,500 LF of pipe were jetted and cleaned in 2005. Zinc (90 to 1,200 mg/kg) and BEHP (5,600 to 28,000 ug/kg dw) were the only two chemicals that exceeded SQS/LAET. TPH-oil (200 to 7,600 mg/kg) also exceeded the MTCA Method A cleanup levels at most of the sampling stations.

The drainage system was repaired in 2009. Repairs including installing a new 64-inch diameter storm drain between MLK Way and the ditch on I-5. An oil control structure was installed at the downstream end of the pipe to capture oil prior to discharge to the ditch and a short section of the ditch was re-graded to restore the hydraulic grade line (see Appendix G). Proposed water quality improvements, which involve constructing a stormwater wet pond on City property located between I-5 and the railroad right-of-way near S Norfolk St has been delayed because of budget issues. Final design of the stormwater treatment facility was completed in 2010. Construction is currently scheduled to begin in 2011.

Business Inspections

A total of 91 inspections (45 full inspections, 3 screening inspections, and 44 follow-up inspections) were conducted at 36 businesses in the Norfolk CSO/EOF/SD drainage basin between July 1, 2005 and September 30, 2010. A list of sites inspected during this reporting period is provided in Appendix B, Table B-1.

Since the program began in March 2003, inspectors have completed 55 full inspections, 3 screening inspections, and 58 follow up inspections at 46 sites in the Norfolk early action area. Inspection sites are shown in Map 5. Corrective actions were requested at approximately

73 percent of the businesses inspected. Corrective actions are summarized by program area on Figure 1. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in the Norfolk early action area are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures:	20%
Improve or purchase adequate spill response materials:	11%
Properly educate employees about spill response procedures:	13%
Storm drain facility needs to be cleaned:	11%

SPU also inspected businesses operating in the Norfolk drainage basin in 1996 and again in 2001. Inspections were conducted as part of SPU's stormwater pollution prevention program and focused primarily on outdoor activities. No samples were collected to confirm the presence of contaminants found in the waterway. In 2001, 68 businesses were inspected (24 drive-by and 44 onsite inspections). Most of the problems identified were related to inadequate maintenance of onsite drainage systems and inadequate spill response programs. SPU inspectors worked with the business owners to improve their stormwater pollution prevention practices. In addition, SPU identified and corrected one illicit connection (wash pad connection) and one illicit discharge (overflow from equipment wash area) to the Norfolk-MLK Way system.

As shown in Table 18, in 2007-2008, SPU also inspected five businesses located in the Tukwila portion of the Norfolk CSO/EOF/SD drainage basin under an interagency agreement with the City of Tukwila.

Table 18. Businesses inspected in Tukwila (2007-2008).

Business	Address	Inspection Date
Northwest Autowrecking	10230 E Marginal Way S	May 23, 2007
Reliable Auto Parts	4345 S 104th Pl	December 10, 2007
Harrington Industrial Plastics	4322 S 104th Pl	November 28, 2007
Pacific Grip and Lighting	10401 E Marginal Way S	December 12, 2007
Unified Grocers	3301 S Norfolk St	March 19, 2008

Source Sampling and Identification

In September 2007, SPU installed five sediment traps in the Norfolk storm drain system to support source tracing activities (see Map 12). Inline grabs were collected at four of the trap locations (NST1, NST2, NST3, and NST4) when the traps were installed and whenever the traps were retrieved (see data table DT-6). Sediment trap samples were retrieved in March 2008, September 2008, April 2009, and October 2009 (see data table DT-4).

As summarized in Table 19, mercury, zinc, TPH, PAH, dibenzofuran, PCBs, BEHP, butylbenzylphthalate, dimethylphthalate, 2-methylphenol, and 4-methylphenol concentrations were above the SMS or MTCA benchmarks in multiple samples collected from the Norfolk area. Mercury (0.7 mg/kg) was above the CSL in the March 2008 sediment trap sample from NST3, but was relatively low (<0.5-0.18 mg/kg) in the eight (8) other samples collected from this location (3 trap samples and 5 inline samples). SPU will continue to monitor this location, but does not intend to conduct any additional source tracing at this time.

LPAH (66,230 ug/kg dw) and HPAH (585,400 ug/kg dw) were elevated in CB78. CB78 is an onsite catch basin at a manufacturer of premade baking mixes. SPU inspected this facility in 2001 and 2005. Catch basins were cleaned after the 2001 inspection and no corrective actions were identified during the 2005 inspection. SPU will re-inspect and resample this catch basin in 2011.

PCB concentrations have generally been low, ranging from 26 to 530 ug/kg dw. Concentrations exceeded the LAET benchmark only at traps stations NST2 (37-288 ug/kg dw) and NST5 (190-530 ug/kg dw), inline grab NST1 (150 ug/kg dw), and onsite catch basin CB84 (320 ug/kg dw).

ECOLOGY SOURCE CONTROL AREAS

In addition to the seven designated early action areas, Ecology has divided the remainder of the LDW into 17 source control areas to aid in organizing source investigations and evaluations (see Map 1). During the July 2005 through September 2010 reporting period, SPU inspectors worked in the following 13 source control areas to support Ecology's development of existing information/data gaps reports and source control action plans:

- King County lease parcels (river mile 1.0 to 1.2 east)
- Saint Gobain to Glacier Northwest (river mile 1.2 to 1.7 east)
- Slip 2 to Slip 3 (river mile 1.7 to 2.0 east)
- Slip 3 to Seattle Boiler Works (river mile 2.0 to 2.3 east)
- Seattle Boiler Works to Slip 4 (river mile 2.3 to 2.8 east)
- Boeing Plant 2 to Jorgensen Forge (river mile 2.8 to 3.7 east)
- Boeing Isaacson/Central King County International Airport (KCIA, river mile 3.7 to 3.9)
- Slip 6 (river mile 3.9 to 4.3 east)
- SW Spokane St to Kellogg Island (river mile 0 to 1.0 west)
- Kellogg Island to Lafarge (river mile 1.0 to 1.3 west)
- Glacier Bay (river mile 1.3-1.6 west)
- Terminal 115 (river mile 1.6 to 2.1 west)
- Riverside Drive (river mile 2.2 to 3.4 west)
- Sea King Industrial Park (river mile 3.8 to 4.2).

Business Inspections

SPU completed 383 inspections at 176 businesses in 14 of Ecology's 17 source control areas during this reporting period. Inspection counts for each source control area are summarized below on Table 20.

Table 20: Summary of inspections conducted in the source control areas (July 2005-September 2010).

Source Control Area	River Mile	Initial Inspects	Screening Inspects	Follow-up Inspects	Total Inspects	Total Businesses
King County lease parcels	1.0 to 1.2 east	4	0	4	8	3
St Gobain to Glacier NW	1.2 to 1.7 east	2	0	3	5	2
Slip 2 to Slip 3	1.7 to 2.0 east	6	0	6	12	6
Slip 3 to Seattle Boiler Works	2.0 to 2.3 east	23	1	32	56	22
Seattle Boiler Works to Slip 4	2.3 to 2.8 east	10	0	11	21	8
Boeing Plant 2 to Jorgensen Forge	2.8 to 3.7 east	1	0	1	2	1
Boeing Isaacson/Central KCIA	3.7 to 3.9 east	1	0	3	5	1
Slip 6	3.9 to 4.3 east	0	0	1	1	1
SW Spokane St to Kellogg Island	0 to 0.1 west	25	3	37	65	26
Kellogg Island to Lafarge	0.1 to 1.3 west	2	0	2	4	2
Glacier Bay	1.3 to 1.6 west	25	1	26	52	17
Terminal 115	1.6 to 2.1 west	5	0	10	15	5
Riverside Drive	2.2 to 3.4 west	55	23	50	128	76
Sea King Industrial Park	3.8 to 4.2 west	6	0	4	10	6
Total		165	28	190	383	176

A list of sites inspected during this reporting period is provided in Appendix B, Table B-1. Inspection sites are shown in Map 5. Corrective actions were requested at approximately 86 percent of the businesses inspected. Corrective actions are summarized by program area on Figure 1. Counts for each of the 26 corrective actions tracked by SPU are provided in Table 2. The four most common corrective actions identified to date in the Ecology source control areas are listed below (as a percent of the total number of corrective actions):

Improve or create spill response procedures: 17%
Improve or purchase adequate spill response materials: 14%
Properly educate employees about spill response procedures: 13%
Storm drain facility needs to be cleaned: 7%

Source Sampling and Identification

For discussion purposes, the results for source tracing samples that were collected during this reporting period in the Ecology-defined source control areas have been divided into east side and west side for drains discharging to the east and west sides of the Duwamish Waterway. Samples that exceeded SMS/MTCA benchmarks are summarized in Tables 21 and 22. Table 23 presents a compilation of chemicals exceeding the SMS/MTCA benchmarks in samples collected from

catch basins connected to the combined sewer system in the LDW study. Sampling locations are shown on Maps 8-16.

In 2009, SPU installed 21 sediment traps in 10 storm drains that discharge to the LDW outside of the early action areas. Traps were installed in 9 of the 17 Ecology source control areas. Funding was provided by a grant from Ecology to assist in source tracing. Most traps were retrieved once, during the March to May 2009 timeframe. Traps KCIA2-ST1 (King County International Airport storm drain #2 that discharges to the Duwamish Waterway at river mile 3.8) and KCIAJ-ST1 (King County International Airport storm drain that discharges to the Duwamish Waterway at river mile 3.6) have been sampled twice (in March and December 2009). The other traps were resampled in September-December 2010 under another grant from Ecology; however, sample results were not available at the time this report was prepared. Sediment trap locations and sampling dates are summarized in Table 24.

Table 24. Retrieval dates for traps installed in storm drains discharging to Ecology-defined source control areas.

Station ID	Date	Source Control Area	Outfall
East Side			
KCIA1-ST1	03/26/09	RM 3.9 to 4.3 east	KCIA SD#1
KCIA2-ST1	03/26/09	RM 3.7 to 3.9 east	KCIA SD#2
KCIA2-ST1	10/21/09	RM 3.7 to 3.9 east	KCIA SD#2
West Side			
ID-ST1	03/06/09	RM 0 to 1.0 west	SW Idaho St SD
ID-ST2	03/06/09	RM 0 to 1.0 west	SW Idaho St SD
ID-ST3	03/06/09	RM 0 to 1.0 west	SW Idaho St SD
KN-ST1	03/17/09	RM 1.3 to 1.6 west	S Kenny St SD/T115 CSO
HP-ST4	03/12/09	RM 1.6 to 2.1 west	Highland Park Way SW SD
HP-ST6	04/15/09	RM 1.6 to 2.1 west	Highland Park Way SW SD
1st-ST1	03/06/09	RM 3.4 to 3.8 west	1st Ave S SD (west)
1st-ST2	03/06/09	RM 3.4 to 3.8 west	1st Ave S SD (west)
1st-ST3	03/12/09	RM 3.4 to 3.8 west	1st Ave S SD (west)
1st-ST7	03/17/09	RM 3.4 to 3.8 west	1st Ave S SD (west)
7th-ST1	03/17/09	RM 2.1 to 2.2 west	7th Ave S SD
7th-ST2	03/17/09	RM 2.1 to 2.2 west	7th Ave S SD
7th-ST3	03/12/09	RM 2.1 to 2.2 west	7th Ave S SD
96-ST1	04/24/09	RM 3.8 to 4.2 west	S 96th St SD
96-ST2	04/24/09	RM 3.8 to 4.2 west	S 96th St SD
96-ST3	05/13/09	RM 3.8 to 4.2 west	S 96th St SD
HC-ST1	04/15/09	RM 4.2 to 4.8 west	Hamm Creek

East Side of the Waterway

As summarized in Table 21 concentrations of arsenic, copper, zinc, PCBs, TPH, HPAH, BEHP, butylbenzylphthalate, and dimethylphthalate were above the SMS or MTCA benchmarks in at least one sample collected from storm drains discharging to Ecology source control areas located on the east side of the waterway. Source tracing activities are summarized below:

- ***S River St SD***. Arsenic concentrations were high in two of the inline samples collected from the S River St SD (96 mg/kg at MH211 and 110 mg/kg at MH235). Sampling locations are shown on Map 10. Zinc concentrations (1,010 and 1,170

mg/kg) were also relatively high in these two samples compared to other inline grab samples. Except in areas affected by specific sources, zinc concentrations in inline grab samples have generally been less than 1,000 mg/kg. The S River St storm drain collects runoff from a small area (7.5 acres) west of E Marginal Way S. Businesses operating in the area include a distributor of flooring products, general contractor, concrete sink/countertop manufacturer, electrical contractor, heating equipment supplier, container transport, and a trucking company. This area is also used by transients that live out of their vehicles. No specific sources of arsenic or zinc were identified during business inspections conducted in this area. Contamination may be related to historical sources. SPU decided to jet and clean the entire S River St system and monitor sediment accumulations in the future to determine whether there are potential ongoing sources in this area. Approximately 1,400 feet of pipe and approximately 11 catch basins were cleaned in December 2010.

- ***S Garden St SD, S Myrtle St SD, and S Brighton CSO/SD***. As described earlier, SPU conducted an extensive source tracing effort in the S Garden St, S Myrtle St, and S Brighton St CSO/SD (separated storm drain only) systems in 2008-2009 to identify potential sources of metals found in these drainage systems. These drains discharge to source control areas RM 2.0 to 2.3 east and RM 2.3 to 2.8 east and are located in the vicinity of a large metal recycling facility. Elevated levels of copper (975-7,990 mg/kg), lead, (1,260-2,240 mg/kg), mercury (0.8-2.72 mg/kg), zinc (4,940-13,300 mg/kg), and PCBs (1.9-18.3 mg/kg dw total PCBs) were found in sediment collected from catch basins and roof tops at the facility (see Table 25). Similar levels of contaminants were found in catch basins and inline grab samples collected from the storm drains adjacent to the facility (500-3,280 mg/kg copper, 467-1,710 mg/kg lead, 0.42-4.29 mg/kg mercury, 455-8,960 mg/kg zinc, and 0.1-25 mg/kg total PCBs). Sampling locations are shown on Map 28 and results are provided in Table 26. The metal recycling facility experiences track out problems that affect the S Myrtle St right-of-way. In addition, samples collected by a company located north of the facility indicate that fugitive dust emissions from shredding operations may also affect the surrounding area (Ly 2009). The company located directly north of the metal recycling facility recently collected a wipe sample from the windshield of a car that had been washed and then parked onsite for a day. The wipe sample contained elevated concentrations of chromium (150 mg/kg), copper (660 mg/kg), lead (1,100 mg/kg), and zinc (7,500 mg/kg).

  In 2009, SPU hired Everson's Econo-Vac to jet and clean the separated storm drains west of E Marginal Way S, between S Garden St and S Brighton St. Cleaning was conducted in between December 2009 and January 2010. Approximately 4,300 feet of pipe and 41 structures were cleaned. SPU and EPA sampled the catch basin located immediately east of the driveway at the metal recycling facility in May 2010 and elevated levels of copper, lead, mercury, zinc, and PCBs were again found in the catch basin sediment.

- In 2009, SPU also investigated elevated PCB concentrations found in soil in the right-of-way along the east side of 8th Ave S in source control area RM 2.3 to 2.8 east. As part of a neighborhood grant project, the Seattle Transportation Department (SDOT) had planned to construct a small bioretention cell on the east side of the road in 2008,

but soil samples collected from the project area contained PCBs. SPU collected additional soil/dirt samples in the right-of-way and on adjacent properties. PCBs were found in samples collected from the former Sternoff Metals property at 7201 E Marginal Way S (Table 27). However, PCB concentrations the sample collected from the opposite side of 8th Ave S (CB149) were fairly low.

Table 27. PCBs in street dirt/catch basin samples collected along 8th Ave S.

Station ID	Location	Total PCBs (ug/kg dw)
CB144[a]	CB at driveway entrance (plumbed to SS on 8th Ave S)	3,600
CB145[a]	Street dirt at driveway entrance on 8th Ave S	6,900
CB146[a]	Dirt pile at southeast corner of property	182
CB147[a]	Surface dirt from yard area on east side of building	1,340
CB148[a]	Dirt pile on south-central side of property	530
CB149[b]	Street dirt at driveway entrance 7135 8th Ave S	60

a. 7201 E Marginal Way S on east side of 8th Ave S

b. West side of 8th Ave S, across from Sternoff Metals property.

SPU has referred this site to Ecology for further investigation.

West Side of the Waterway

As summarized in Table 22 concentrations of arsenic, copper, lead, mercury, zinc, PCBs, TPH, PAH, BEHP, butylbenzylphthalate, dimethylphthalate, di-n-butylphthalate, 2-methylphenol, 4-methylphenol, phenol, benzoic acid, benzyl alcohol, hexachlorobenzene, and n-nitrosodiphenylamine were above the SMS or MTCA benchmarks in at least one sample collected from storm drains discharging to Ecology source control areas located on the west side of the waterway. Source tracing activities are summarized below:

- PAHs were elevated at CB91 on Terminal 115 (1,253,000 ug/kg dw LPAH and 2,062,000 ug/kg dw HPAH) and ID-ST1 (108,800 ug/kg HPAH) located on the 36-inch drain that serves a residential area located east of 18th Ave SW and the South Seattle Community College property. The Port has been notified about the PAH levels in CB91. SPU intends to conduct additional source tracing in the SW Idaho St storm drain system in 2011.
- PCBs were elevated in the September 2008 inline grab collected near the downstream end of the 7th Ave S storm drain (2,400 ug/kg dw at 7th-ST1). However, PCB concentrations were much lower in two other inline grab samples collected in March 2009 and April 2010 (188-236 ug/kg dw), as well as the sediment trap from this same location (264 ug/kg dw). Additional source tracing samples were collected in the 7th Ave S drainage system in 2009, but PCBs were not elevated in any other samples collected from this system. Source tracing locations in the 7th Ave S storm drain are shown on Map 15. SPU currently plans to clean the 7th Ave S storm drain system prior to building the South Park pump station/water quality facility, which is currently scheduled for construction in 2011-2012. The South Park project involves construction of a pump station to reduce flooding in the 7th Ave S drainage basin and a 1,000-cartridge Stormfilter® treatment system. This regional treatment system will be constructed at the downstream end of the system and is designed to treat

approximately 80 percent of the average annual runoff from the 232-acre drainage basin. Stormfilter® systems are approved by Ecology and are considered to be effective in removing about 80 percent of the total suspended solids (TSS) present in stormwater.

Combined Sewer System Samples

Exceedances of SMS/MTCA benchmarks in samples collected from catch basins (24 onsite catch basins and 19 right-of-way catch basins) that are plumbed to the combined sewer system are summarized in Table 23. Chemicals that exceed the established benchmarks include arsenic, copper, lead, mercury, zinc, TPH, PAH, dibenzofuran, BEHP, butylbenzylphthalate, dimethlphthalate, di-n-butylphthalate, 2,4-dimethylphenol, 2-methylphenol, 4-methylphenol, phenol, benzoic acid, and benzyl alcohol. Similar to the separated storm drain system, concentrations in onsite catch basins are generally higher than concentrations found in right-of-way catch basins.

NEXT STEPS

SPU intends to continue the business inspection and source tracing efforts to support the Lower Duwamish Waterway Superfund investigation in 2011. In the past seven years, SPU has conducted an average of about 150 business inspections per year and has collected about 50-100 source tracing samples per year. Higher sample counts (130-180) occurred during 2008 and 2009 when Ecology funded SPU source tracing efforts.

Business Inspections

The business inspection program has been successful in reaching businesses that discharge to the LDW via the publicly-owned storm drain or the combined sewer systems. In 2010, SPU completed the first sweep of the LDW, inspecting all businesses that engage in high risk pollution generating activities (e.g., manufacturing, chemical storage, equipment maintenance). Businesses were selected for inspection based on their reported standard industrial classification and/or visual observations made during field reconnaissance visits. A full site inspection was conducted at all sites that engaged in pollution generating activities. At sites where the onsite activities were unknown, inspectors conducted a brief screening visit to evaluate onsite activities and determine whether a full site investigation was necessary. The initial sweep utilized a systematic geographic-based approach to provide comprehensive coverage of the LDW area. Inspections started in the highest priority areas (i.e., early action areas) and then moved into the other source control areas defined by Ecology to support development of source control action plans for these areas.

SPU is currently developing a schedule for future inspections that uses a priority system based on pollution generating potential. Businesses have been assigned a priority ranking (high, medium, and low) based on information obtained during the initial round of inspections. Inspection frequency will be based on the priority ranking. The following sites were assigned a high ranking:

- Sites that exhibited significant problems during previous inspections. Since about 2008, SPU inspectors have been ranking sites based on observations made during site

visits. This ranking is maintained in the business inspection data base. For sites inspected prior to 2008, the initial ranking is based on an evaluation of the numbers of corrective actions required during the first round of inspections. Highest priority is assigned to those sites that required multiple corrective actions for stormwater and hazardous waste-related issues.

- Sites that were inspected during the first round by others (e.g., King County Industrial Waste, King County Hazardous Waste inspectors) that engage in high risk pollution generating activities. These sites are being addressed separately, because SPU inspectors have less understanding of these businesses. High priority sites have been selected based on SIC codes and numbers of corrective actions identified during the first round of inspections.
- New businesses that start up in the area and that engage in high risk pollution generating activities. These businesses will be selected based on the SIC code from the City's business license data base. This list will be downloaded once each year to select businesses to inspect during the following year.

There are currently about 1,300 businesses on the site list. Of these, about 70 are listed as high priority. The priority ranking will be updated each year.
With an average annual inspection count of about 150, it is anticipated that high risk businesses will be inspected every other year. Schedules for other rankings have yet to be determined. SPU intends to finalize the inspection schedule in January 2011 and will then meet with Ecology staff to coordinate inspections for 2011.

Source Sampling/Tracing

Source tracing efforts will continue to focus on catch basin and in-line sediment sampling to track sources of contaminants to the waterway sediment. Because of staffing issues (several inspectors will be on extended leave), in-house source tracing will be limited in 2011. However, sampling will continue with consultant support funded by an Ecology grant that extends through June 30, 2011. Work planned for the next reporting period includes:

- Continue sampling the three SPU-monitored traps installed in the Slip 4 basin and the 5 traps in the Norfolk CSO/EOF/SD basin. Samples will be collected once in 2011.
- Re-sample the 21 traps installed in 2008-2009 under the previous Ecology grant. The first round of sampling was completed in December 2010. An additional round of sampling will be conducted in late April if sufficient sediment has accumulated in the traps.
- Collect additional samples in non-industrial areas of the LDW to provide broader geographic coverage and evaluate pollutants associated with residential streets and arterials. Up to 65 additional source tracing samples will be collected under the grant.
- Analyze additional samples for dioxins/furans. Samples will be selected from samples currently archived at the lab (SPU has been collecting and archiving an additional sample bottle from each sampling location for the past year and half), samples collected under the first three bullets above, and if possible, storm drain sampling will

be coordinated with Ecology's regional dioxin study that is scheduled to occur in 2011. Up to 30 additional samples will be analyzed for dioxins/furans.

- Co-sample with Ecology building material investigation. This work is also funded under the Ecology grant. SPU will sample catch basins adjacent to buildings where Ecology tests building material to determine whether pollutant present in building materials have migrated to the adjacent storm drain system.
- Continue to resample onsite catch basins following implementation of pollution prevention practices and catch basin cleaning. SPU has re-sampled limited number of catch basins following cleaning and source control. Further work is planned to aid in evaluating source control effectiveness.

Site-Specific Source Control Actions

Terminal 177 Adjacent Streets Cleanup

The revised EE/CA was completed in 2010 and the Port and City are currently developing the scope of work/schedule for designing and constructing the final cleanup. The City's consultant is under contract to begin designing the roadway cleanup in 2011. Design of the stormwater collection and treatment system that will be installed after cleanup will also begin in 2011. SPU intends to construct a treatment system that meets the requirements of the City Stormwater, Code (SMC 22.800) and is compliant with City NPDES municipal stormwater permit. SPU is currently working with the Port to negotiate an easement across Terminal 117 property to construct the necessary drainage outfall to the waterway. Final cleanup in the right-of-way is currently scheduled to occur in approximately 2014.

Line Cleaning

SPU will continue to jet and clean storm drain systems to remove contaminated sediment. Cleaning is conducted after source tracing has been completed and the threat of recontamination from an ongoing source is considered low. Depending on available funding and the completion of source tracing activities, the following two sites may be cleaned in 2011:

- SW Idaho St storm drain. Sampling to identify the source(s) of elevated levels of HPAH found in sediment trap samples will be conducted in 2011. Contaminated sections of this line will be cleaned after source tracing is completed.
- 7th Ave S storm drain. Elevated levels of total PCBs (2,400 ug/kg dw) were found in one inline sediment sample from this system. No ongoing sources of PCBs have been identified in this system. Cleaning work will be coordinated with the 2011-2012 construction of the South Park pump station/water quality facility, which will be built at the downstream end of this storm drain system.

REFERENCES

ATSDR. 1993. n-Nitrosodiphenylamine, CAS # 86-30-6. U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, Atlanta, GA.

ATSDR. 1999. 2,4- and 2,6-Dinitrotoluene, CAS # 121-14-2 and 606-20-2. U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, Atlanta, GA.

EMR. 2001. Stormwater pollution prevention plan. Prepared for Basin Oil Company by Environmental Management Resources, Inc., Redmond, WA.

Herrera. 1998. Henderson/M.L. King CSO Control Project monitoring report. Prepared by Herrera Environmental Consultants, Inc. for King County Department of Natural Resources Water Pollution Control Division, Seattle, WA.

Jeffers, M. 2009. Personal communication (April 9, 2009 email to Brian Robinson, Seattle Public Utilities regarding Seattle Barrel site). Washington State Department of Ecology, Bellevue, WA.

Ledbetter, L. 2001. Personal communication (September 13 email to Ellen Stewart, Seattle Public Utilities regarding Chemithon site). Chemithon, Seattle, WA.

Ly, N. 2009. Personal communication. (December 9 letter to Craig Hopkins, Seattle Boiler Works, Inc.). NVL Labs, Seattle, WA.

Striplin. 2004. Lower Duwamish Waterway, Slip 4 early action area: Summary of existing information and identification of data gaps. Prepared for Seattle City Light by Striplin Environmental Associates, Olympia, WA.

Tacoma. 1990. Surface water quality study final report. City of Tacoma, Department of Public Works Sewer Utility, Tacoma, WA.

Tacoma. 1999. Round 3 data evaluation and predesign report, Appendix L, Thea Foss and Wheeler-Osgood Waterways, City of Tacoma, WA.

Tacoma. 2002. August 2001-2002 annual report. Thea Foss and Wheeler-Osgood Waterways stormwater monitoring, City of Tacoma, WA.

Tacoma. 2003. Phthalate source study phase II, Thea Foss Waterway sub-watershed sampling and analysis plan. City of Tacoma, Environmental Services, Science & Engineering, Tacoma, WA.

Turner, D. June 17, 2004. Personal communication (phone conversation with Barbara Badger, King County Industrial Waste). The Boeing Company, Seattle, WA.

USEPA. 1983. Final report of the National Urban Runoff Program. U.S. Environmental Protection Agency, Water Planning Division, Washington, D.C.

Vernon, C. 2006. Catch basin sediment field sampling results report, former Rainier Brewery property. Prepared for Rainier Commons, LLC and Ariel Development, LLC by Vernon Environmental, Inc., Issaquah, WA.

Table 2. Corrective actions identified during initial inspections from 2003 through September 2010 (arranged by storm drain outfall/early action area).

	LDW All	Diagonal-Duwamish EAA	Norfolk EAA	Slip 4 EAA	Former Slip 5 EAA	Trotsky EAA	Glacier Bay	Slip 6	7th Ave S SD	1st Ave S SD (east)	S Brighton CSO/SD	S Myrtle St SD	SW Dakota St SD	SW Idaho St SD	1st Ave S SD (west)	Highland Park Wy SW SD	S 96th St SD
Total Number of Corrective Actions	3,002	1,844	132	140	41	119	89	4	160	5	54	20	3	5	53	22	25
	Percent	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**	**Percent**
Hazardous Waste																	
Properly document waste disposal	1.7%	2.2%	1.5%	0.7%	2.4%	0.8%	0.0%	0.0%	0.6%	0.0%	1.9%	0.0%	0.0%	0.0%	1.9%	0.0%	4.0%
Properly store Product/Waste	6.8%	7.4%	7.6%	6.4%	7.3%	8.4%	5.6%	0.0%	7.5%	0.0%	5.6%	0.0%	0.0%	0.0%	1.9%	4.5%	8.0%
Properly label Containers	4.2%	3.9%	5.3%	3.6%	2.4%	7.6%	4.5%	0.0%	6.3%	0.0%	5.6%	5.0%	0.0%	0.0%	3.8%	4.5%	4.0%
Repair or replace degraded open chemical containers	0.4%	0.3%	0.0%	0.0%	0.0%	0.8%	0.0%	0.0%	0.6%	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Properly dispose of Waste	5.1%	5.8%	1.5%	5.7%	2.4%	4.2%	3.4%	0.0%	8.1%	0.0%	1.9%	5.0%	0.0%	0.0%	5.7%	4.5%	4.0%
Properly designate waste	0.5%	0.3%	0.0%	1.4%	0.0%	0.8%	1.1%	0.0%	1.9%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Hazardous Waste Total	18.8%	19.9%	15.9%	17.9%	14.6%	22.7%	14.6%	0.0%	25.0%	0.0%	24.1%	10.0%	0.0%	0.0%	13.2%	13.6%	28.0%
Industrial Waste																	
Obtain proper permit for facility discharge	0.7%	0.6%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	1.3%	0.0%	1.9%	5.0%	0.0%	20.0%	3.8%	0.0%	4.0%
Implement pretreatment for discharge	0.5%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Provide better/more maintenance for pretreatment system	0.3%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.9%	0.0%	0.0%
Industrial Waste Total	1.4%	1.7%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	1.3%	0.0%	1.9%	5.0%	0.0%	20.0%	5.7%	0.0%	8.0%
Spill Response																	
Improve or create spill response procedures	17.1%	15.3%	19.7%	22.1%	34.1%	19.3%	16.9%	25.0%	18.1%	20.0%	14.8%	15.0%	33.3%	20.0%	18.9%	13.6%	8.0%
Improve or purchase adequate spill response materials	13.7%	13.4%	11.4%	13.6%	19.5%	9.2%	14.6%	25.0%	14.4%	20.0%	11.1%	20.0%	33.3%	20.0%	17.0%	9.1%	8.0%
Properly educate employees	13.0%	11.8%	12.9%	20.0%	12.2%	10.9%	13.5%	25.0%	14.4%	20.0%	11.1%	15.0%	33.3%	20.0%	15.1%	13.6%	4.0%
Spill Response Total	43.8%	40.5%	43.9%	55.7%	65.9%	39.5%	44.9%	75.0%	46.9%	60.0%	37.0%	50.0%	100.0%	60.0%	50.9%	36.4%	20.0%
Stormwater																	
Storm drain facility needs to be cleaned	13.0%	15.6%	11.4%	11.4%	4.9%	7.6%	13.5%	0.0%	3.1%	20.0%	5.6%	5.0%	0.0%	0.0%	7.5%	13.6%	8.0%
Missing or damaged components to storm drain facility need replacement/repair	2.6%	2.6%	6.1%	2.1%	4.9%	2.5%	2.2%	25.0%	0.6%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%
Make storm drain facility parts accessible	0.2%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Correct illegal plumbing connection	0.5%	0.5%	0.0%	0.7%	2.4%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	4.0%
Implement proper housekeeping	5.3%	5.5%	5.3%	2.1%	2.4%	5.0%	7.9%	0.0%	3.8%	0.0%	7.4%	5.0%	0.0%	0.0%	7.5%	13.6%	8.0%
Don't discharge process wastewater to stormdrain	3.5%	4.1%	3.8%	1.4%	2.4%	3.4%	3.4%	0.0%	1.3%	0.0%	0.0%	5.0%	0.0%	0.0%	1.9%	0.0%	4.0%
Implement proper washing practices	2.3%	2.1%	3.0%	0.7%	2.4%	3.4%	1.1%	0.0%	3.8%	0.0%	1.9%	5.0%	0.0%	0.0%	5.7%	9.1%	4.0%
Properly store containerized materials	2.2%	2.1%	2.3%	1.4%	0.0%	5.0%	2.2%	0.0%	4.4%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Properly store non-containerized materials	2.1%	1.6%	1.5%	3.6%	0.0%	5.0%	3.4%	0.0%	3.1%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Implement proper fueling operations	0.4%	0.3%	1.5%	0.0%	0.0%	0.0%	2.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.5%	0.0%
Properly perform maintenance of vehicles and equipment	0.9%	1.0%	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	1.3%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Implement proper material transfer practices	0.5%	0.4%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	3.7%	5.0%	0.0%	0.0%	3.8%	0.0%	0.0%
Clean and eliminate leaks and spills from storage areas	2.1%	1.7%	4.5%	2.9%	0.0%	2.5%	2.2%	0.0%	2.5%	0.0%	7.4%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%
Obtain NPDES permit for discharge	0.5%	0.1%	0.0%	0.0%	0.0%	1.7%	0.0%	0.0%	1.9%	20.0%	1.9%	10.0%	0.0%	0.0%	3.8%	0.0%	4.0%
Stormwater Total	36.0%	37.9%	40.2%	26.4%	19.5%	37.8%	38.2%	25.0%	26.9%	40.0%	37.0%	35.0%	0.0%	20.0%	30.2%	50.0%	44.0%
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 7: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 1 (Diagonal/Duwamish).

Includes samples collected from S Nevada St SD and Diagonal Ave C CSO/SD

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range			Stations
Sediment traps										
Zinc	mg/kg	410	960	46	19	2	428	-	1,930	All
TPH-oil	mg/kg	2,000	NA	46	34	NA	2,100	-	7,500	All
PCBs	ug/kg dw	130	1,000	46	27	2	139	-	2,250	All
BEHP	ug/kg dw	1,300	1,900	46	45	44	1,800	-	33,000	All
Butylbenzylphthalate	ug/kg dw	63	900	46	39	6	110	-	2,700	All
Dimethylphthalate	ug/kg dw	71	160	46	4	1	75	-	760	ST2, ST5, ST6
LPAH	ug/kg dw	5,200	5,200	45	4	4	5,560	-	19,350	ST3, ST6
HPAH	ug/kg dw	12,000	17,000	45	9	6	13,060	-	127,580	ST1, ST2, ST6
4-methylphenol	ug/kg dw	670	670	45	26	26	720	-	20,000	All
Benzoic acid	ug/kg dw	650	650	45	2	2	1,400	-	1,500	ST3, ST7
Benzyl alcohol	ug/kg dw	57	73	45	6	6	76		220	ST2, 5, 7
2-Methylnaphthalene	ug/kg dw	670	670	45	1	1		-	1,500	ST3
2-Methylphenol	ug/kg dw	63	63	45	1	1		-	370	ST5
Onsite catch										
Arsenic	mg/kg	57	93	39	2	2	70	-	480	CB127, 130
Copper	mg/kg	390	390	39	7	7	437	-	1,550	CB30, 81, 117, 127, 130, 138,
Lead	mg/kg	450	530	39	4	3	473	-	5,830	CB81, 83, 130
Mercury	mg/kg	0.41	0.59	39	7	6	0.46	-	21	CB30, 74, 83, 121, 130, and RCB224
Zinc	mg/kg	410	960	39	29	13	471	-	1,810	CB74, 81, 85, 92A, 205, 106, 107S, 107F, 121, 127, 128, 130, 136, 138,
TPH-diesel	mg/kg	2,000	NA	39	15	NA	2,500	-	46,000	CB81, 105, 107S, 111, 128, 130, 136, 138, 139, 140
TPH-oil	mg/kg	2,000	NA	39	31	NA	3,300	-	250,000	CB74, 81, 92A, 205, 106, 107S, 107F, 110, 111, 112, 117, 119, 121,
PCBs	ug/kg dw	130	1,000	46	28	11	138	-	2,200,000	CB10, 13, 19, 27B, 30, 73, 74, 75, 76, 81, 83, 85, 92, 105, 112, 117, 121, 136, 139, 158, RCB224, and TUL-CB1,CB2, CB3, CB4
LPAH	mg/kg	5,200	5,200	39	4	4	7,290	-	79,700	CB83, 112, 119, 130
HPAH	mg/kg	12,000	17,000	39	7	6	15,600	-	262,300	CB10, 27B, 106, 107S, 112, 119, 130
2-Methylnaphthalene	mg/kg	670	670	39	6	6	860	-	18,000	B81, 83, 105, 136, 140, RCB224
BEHP	ug/kg dw	1,300	1,900	39	36	34	1,600	-	1,400,000	All except CB124, 161,204
Butylbenzylphthalate	ug/kg dw	63	900	39	29	17	71	-	150,000	CB74, 81, 83, 92A, 106, 107F, 110, 112, 138, 139, 140
Dimethylphthalate	ug/kg dw	71	160	39	3	3	650	-	1,000	CB13, 74, 136
Di-n-butylphthalate	ug/kg dw	1,400	1,400	39	8	8	1,600	-	52,000	CB74, 83, 106, 121, 130, 136
Di-n-octylphthalate	ug/kg dw	6,200	NA	39	3	3	6,800	-	8,000	CB196, 136, 140]
2,4-dimethylphenol	ug/kg dw	29	29	39	1	1		-	530	CB120
4-Methylphenol	ug/kg dw	670	670	39	12	12	850	-	61,000	CB13, 19, 27A, 27B, 74, 81, 82, 106, 117, 21
2-Methylphenol	ug/kg dw	63	63	39	2	2	360	-	1,500	CB74, 127
Pentachlorophenol	ug/kg dw	360	690	39	1	0		-	620	CB138
Phenol	ug/kg dw	420	1,200	39	8	6	690	-	13,000	CB74, 92, 106, 107S, 120, 128, 130
Benzoic acid	ug/kg dw	650	650	39	8	8	660	-	33,000	CB13, 83, 106, 130, 136, 158
Benzyl alcohol	ug/kg dw	57	73	39	6	6	150		1,800	CB74, 106, 107F, 107S, 111, 112,

Table 7: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 1 (Diagonal/Duwamish).

Includes samples collected from S Nevada St SD and Diagonal Ave C CSO/SD

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range			Stations
Right-of-way catch basins										
Arsenic	mg/kg	57	93	24	1	0		-	87	RCB206
Copper	mg/kg	390	390	24	1	1		-	447	RCB162
Lead	mg/kg	450	530	24	1	1		-	1,300	RCB217
Mercury	mg/kg	0.41	0.59	24	1	1		-	2.2	RCB217
Zinc	mg/kg	410	960	24	10	2	437	-	1,330	RCB1, 37, 51, 126, 144, 161, 215, 216, 217
TPH-diesel	mg/kg	2,000	NA	17	3	NA	2,300	-	4,600	RCB51, 100, 142
TPH-oil	mg/kg	2,000	NA	17	13	NA	2,100	-	20,000	RCB1, 36, 37, 51, 100, 141, 142, 144, 161, 215, 216, 217, 218
PCBs	ug/kg dw	130	1,000	22	12	2	152	-	9,750	RCB37[a], 51, 126, 127, 144, 161, 162, 217, 218
LPAH	ug/kg dw	5,200	5,200	21	1	1		-	5,702	RCB36
HPAH	ug/kg dw	12,000	17,000	21	2	2	17,320	-	27,910	RCB1, 51
BEHP	ug/kg dw	1,300	1,900	21	18	18	2,300	-	72,000	RCB1, 36, 37, 51, 100,126, 127, 141, 142, 144, 160, 161, 162, 215, 216,
Butylbenzylphthalate	ug/kg dw	63	900	21	15	4	110	-	1,600	RCB1, 36, 37, 51, 126, 141, 143, 144, 145, 160, 161, 162, 215, 216,
Dimethylphthalate	ug/kg dw	71	160	21	4	2	120	-	730	RCB36, 141, 160, 217
Di-n-butylphthalate	ug/kg dw	1,400	1,400	21	3	3	3,600	-	11,000	RCB51, 217, 218
2,4-dimethylphenol	ug/kg dw	29	29	21	1	1		-	270	RCB142
4-methylphenol	ug/kg dw	670	670	21	7	7	810	-	4,300	RCB1, 36, 127, 144, 215, 216, 217
Phenol	ug/kg dw	420	1,200	21	2	0	440	-	1,000	RCB36, 142
Benzoic acid	ug/kg dw	650	650	21	2	2	670	-	780	RCB36, 217
Benzyl alcohol	ug/kg dw	57	73	21	4	3	58		1,100	RCB36, 127, 160, 162
Inline sediment grabs										
Lead	mg/kg	450	530	37	2	1	461	-	576	MH18, 213
Mercury	mg/kg	0.41	0.59	37	4	3	0.48	-	2.72	MH18, 208, 233, and ST1G
Zinc	mg/kg	410	960	37	10	0	423	-	858	RCB140, ST1G, ST2G, and MH18, 21A,206, 231 ,233, 236, T6BX
TPH-oil	mg/kg	2,000	NA	35	7	NA	2,100	-	6,800	ST1, ST7, and MHT6B, 18, 21A, 208, 231, 236
PCBs	ug/kg dw	130	1,000	34	9	1	170	-	13,300	ST1, and MHT6BX, 18, 206, 231, 232, 233, 236
BEHP	ug/kg dw	1,300	1,900	34	12	9	1,600	-	14,000	ST1, ST7, T2A, and MHT6Bx, 18, 21A, 207, 208, 209, 231, 236
Butylbenzylphthalate	ug/kg dw	63	900	34	11	1	78	-	1,200	ST1, ST7, RCB140, and MHT6Bx, 17, 21A, 210, 231, 233, 236, T2A
Dimethylphthalate	ug/kg dw	71	160	34	3	3	170	-	1,800	ST1, MH210
Benzyl alcohol	ug/kg dw	57	73	34	1	1		-	120	ST7
Hexachlorobenzene	ug/kg dw	22	70	34	1	0			47	MHT6BX

a. Sample collected on Airport Way S below the Rainier Commons property prior to the cleaning that occurred in January 2008. Catch basin was cleaned in 2006 and January 2008. Lines were also jetted in January 2008.

Table 8: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 2 (Trotsky).

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Onsite catch basins								
Copper	mg/kg	390	390	3	1	1	- 2,110	CB116
Lead	mg/kg	450	530	3	2	2	1,180 - 1,540	CB116
Zinc	mg/kg	410	960	3	2	2	2,690 - 2,950	CB116
TPH-diesel	mg/kg	2,000	NA	3	2	2	2,600 - 4,200	CB116
TPH-oil	mg/kg	2,000	NA	3	2	2	14,000 - 16,000	CB116
PCBs	ug/kg dw	130	1,000	3	1	0	- 902	CB116
BEHP	ug/kg dw	1,300	1,900	3	3	3	22,600 - 39,000	CB108, 116
Butylbenzylphthalate	ug/kg dw	63	900	3	2	2	480 - 11,000	CB116
Dimethylphthalate	ug/kg dw	71	160	3	1	1	- 550	CB116
4-Methylphenol	ug/kg dw	670	670	3	1	1	- 2,200	CB116
Right-of-way catch basins								
Arsenic	mg/kg	57	93	10	1	0	- 50	RCB139
Lead	mg/kg	450	530	10	3	1	521 - 3,690	RCB109, 139, 203
Mercury	mg/kg	0.41	0.59	10	2	2	1.08 - 1.46	RCB109, 139
Zinc	mg/kg	410	960	10	7	0	457 - 663	RCB109,128, 139, 190, 202, 203
TPH-diesel	mg/kg	2,000	NA	10	2	NA	2,400 - 5,800	RCB109, 139
TPH-oil	mg/kg	2,000	NA	10	8	NA	2,200 - 18,000	RCB109, 128, 139, 175, 190, 202, 203
PCBs	ug/kg dw	130	1,000	10	2	2	147 - 3,190	RCB109,128, 139, 190, 202, 203
BEHP	ug/kg dw	1,300	1,900	10	9	9	1,900 - 21,000	RCB109, 110, 128, 139, 175, 190, 200b, 202, 203
Butylbenzylphthalate	ug/kg dw	63	900	10	7	2	70 - 3,400	RCB139, 175, 190, 200b, 201, 202, 203
Dimethylphthalate	ug/kg dw	71	160	10	2	1	120 - 1,000	RCB128, 203
LPAH	ug/kg dw	5,200	5,200	10	1	1	- 6,400	RCB128
2-Methylnaphthalene	ug/kg dw	670	670	10	2	2	1,200 - 1,300	RCB109, 128
Benzyl alcohol	ug/kg dw	57	73	10	2	2	500 - 550	RCB139, 203
Inline grabs								
Zinc	mg/kg	410	960	2	2	0	592 - 620	RCB110
TPH-oil	mg/kg	2,000	NA	2	1	NA	- 4,600	RCB110
BEHP	ug/kg dw	1,300	1,900	2	2	2	2,100 - 3,200	RCB110
Butylbenzylphthalate	ug/kg dw	63	900	2	2	2	95 - 250	RCB110
Di-n-butylphthalate	ug/kg dw	1,400	1,400	2	1	1	- 4,800	RCB110
Di-n-octylphthalate	ug/kg dw	6,200	NA	2	1	1	- 18,000	RCB110
PCBs	ug/kg dw	130	1,000	2	2	0	158 - 203	RCB110
Pentachlorophenol	ug/kg dw	360	690	2	1	1	- 780	RCB110
2,4-Dinitrotoluene	ug/kg dw	NA	NA	2	NA	NA	6,400 - 9,300	RCB110
n-Nitroso-di-n-propylamine[a]	ug/kg dw	NA	NA	2	NA	NA	700U - 780	RCB110
n-Nitrosodiphenylamine	ug/kg dw	28	40	2	NA	NA	4,900 - 14,000	RCB110

a. Benchmarks (SMS/MTCA) do not exist for these chemicals, but concentrations were higher than in any other samples.

Table 12: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 3 (Slip 4).

Includes samples collected from I-5 SD, Georgetown flume, and KCIA SD#3/PS44 EOF

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Sediment traps								
Arsenic	mg/kg	57	93	72	2	0	50 - 70	T4
Copper	mg/kg	390	390	72	5	5	541 - 764	T5A, T5
Lead	mg/kg	450	530	72	6	5	486 - 1,070	T3A, T5A
Mercury	mg/kg	0.41	0.59	72	24	20	0.42 - 8.30	T1, T2, T3, T4, T5A, T5
Zinc	mg/kg	410	960	72	47	17	418 - 2,460	T1, T2A, T2, T3A, T3, T4A, T4, T5A, T5, T6
TPH-diesel	mg/kg	2,000	2,000	48	1	NA	- 3,900	T5
TPH-oil	mg/kg	2,000	2,000	48	15	NA	2,300 - 12,000	T3A, T4, T5A, T5, T6
PCBs	ug/kg dw	130	1,000	105	68	30	133 - 800,000	T1, T2A, T2, T3A, T3, T4A, T4, T5A, T5, T6
BEHP	ug/kg dw	1,300	1,900	75	67	61	1,400 - 48,000	T1, T2A, T2, T3A, T3, T4A, T4, T5A, T5, T6
Butylbenzylphthalate	ug/kg dw	63	900	75	44	5	76 - 1,600	T1, T2A, T2, T3A, T4A, T4, T5A, T5, T6
Dimethylphthalate	ug/kg dw	71	160	75	4	0	90 - 150	T6
Di-n-butylphthalate	ug/kg dw	1,400	1,400	75	2	2	1,600 - 6,900	T1, T2
Di-n-octylphthalate	ug/kg dw	6,200	NA	75	16	NA	6,900 27,000	T2, T3, T4A, T4, T5A, T5
LPAH	ug/kg dw	5,200	5,200	75	11	11	5,830 - 31,300	T1, T2A, T2, T3A, T4A, T4, T5A, T5
HPAH	ug/kg dw	12,000	17,000	75	52	40	12,390 - 362,900	T1, T2A, T2, T3A, T3, T4A, T4, T5A, T5
2-Methylnaphthalene	ug/kg dw	670	670	75	1	1	- 4,800	T2A
Dibenzofuran	ug/kg dw	540	540	75	3	3	600 - 1,300	T2A, T4, T5
2,4-Dimethylphenol	ug/kg dw	29	29	75	3	3	210 - 530	T1, T4A, T5
2-Methylphenol	ug/kg dw	63	63	75	1	1	- 240	T4
4-Methylphenol	ug/kg dw	670	670	75	16	16	760 - 12,000	T2A, T3A, T5A, T5, T6
Pentachlorophenol	ug/kg dw	360	690	75	1	1	- 2,600	T4A
Phenol	ug/kg dw	420	1,200	75	6	1	530 - 1,900	T2A, T4A, T5A, T5
Benzoic acid	ug/kg dw	650	650	75	4	4	2,600 - 5,300	T1, T4A, T4, T5
Benzyl alcohol	ug/kg dw	57	73	75	1	1	130 - 200	T1, T6
Onsite catch basins								
Zinc	mg/kg	410	960	7	5	1	448 - 1,950	CB79, 86, 87, 88, 123
TPH-diesel	mg/kg	2,000	NA	7	2	NA	4,900 - 6,000	CB79, 143
TPH-oil	mg/kg	2,000	NA	7	5	NA	2,300 - 13,000	CB79, 80, 86, 123, 143
PCBs	ug/kg dw	130	1,000	7	4	0	189 - 620	CB79, 86, 87, 88
BEHP	ug/kg dw	1,300	1,900	7	5	4	2,900 - 120,000	CB79, 86, 87, 143, S1
Butylbenzylphthalate	ug/kg dw	63	900	7	5	2	120 - 2,400	S1, CB86, 87, 123, 143
Dimethylphthalate	ug/kg dw	71	160	7	1	1	- 1,900	CB80
LPAH	ug/kg dw	5,200	5,200	7	2	2	9,560 - 18,160	CB79, 123
HPAH	ug/kg dw	12,000	17,000	7	2	1	13,990 - 24,850	CB79, 123
2-Methylnaphthalene	ug/kg dw	670	670	7	3	3	960 - 1,000	CB80, 86, 143
Dibenzofuran	ug/kg dw	540	540	7	1	1	- 1,300	CB123
4-Methylphenol	ug/kg dw	670	670	7	2	3	1,700 - 1,900	CB86, 143
Benzoic acid	ug/kg dw	650	650	7	1	1	- 3,500	CB86
Benzyl alcohol	ug/kg dw	57	73	7	2	2	770 - 820	CB86, 143

Table 12: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 3 (Slip 4).

Includes samples collected from I-5 SD, Georgetown flume, and KCIA SD#3/PS44 EOF

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Right-of-way catch basins								
Copper	mg/kg	390	390	3	1	1	- 720	RCB-D071039
PCBs	ug/kg dw	130	1,000	10	4	0	150 - 570	RCB50, 102, 106, 107
BEHP	ug/kg dw	1,300	1,900	3	8	7	1,400 - 25,000	RCB49, 50, 56, 111, 112, 113, 114, 115
Butylbenzylphthalate	ug/kg dw	63	900	3	7	2	150 - 3,800	RCB49, 50, 111, 113, 114, 115, RCB-D071041
Dimethylphthalate	ug/kg dw	71	160	3	3	0	100 - 1,900	RCB50, 56, 113
HPAH	ug/kg dw	12,000	17,000	3	1	0	- 13,000	RCB56
Benzyl alcohol	ug/kg dw	57	73	3	1	1	- 1,100	RCB111
2,4-Dimethylphenol	ug/kg dw	29	29	3	1	1	- 200	RCB50
Inline grabs								
No exceedances				2	0	0		

Table 14: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging to Early Action Area 4 (Boeing Plant 2 to Jorgensen Forge).

Includes samples collected from 16th Ave S SD and KCIA-Jorgensen SD

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Sediment traps[a]								
PCBs	ug/kg dw	130	1,000	2	2	2	5,500 - 11,000	KCIAJ-ST1
Right-of-way catch basins								
PCBs	ug/kg dw	130	1,000	1	1	1	- 159	RCB207
BEHP	ug/kg dw	1,300	1,900	1	1	1	- 2,725	RCB207
Butylbenzylphthalate	ug/kg dw	63	900	1	1	1	- 75	RCB207
Inline grabs								
Mercury	mg/kg	0.41	0.59	7	1	1	- 7.70	MH201
Zinc	mg/kg	410	960	7	5	2	562 - 1,640	MH201, 202, 203, 213, 214
TPH-oil	mg/kg	2,000	NA	7	3	NA	2,200 - 4,000	MH203, 212, 213
PCBs	ug/kg dw	130	1,000	7	7	1	136 - 8,000	MH201, 202, 203, 212, 213, 214, KCIAJ-ST1
HPAH	ug/kg dw	12,000	17,000	7	1	0	- 15,400	KCIAJ-ST1
BEHP	ug/kg dw	1,300	1,900	7	6	4	1,800 - 44,000	MH201, 202, 203, 212, 213, 214
Butylbenzylphthalate	ug/kg dw	63	900	7	6	1	150 - 2,600	MH201, 202, 203, 212, 213, 214
Dimethylphthalate	ug/kg dw	71	160	7	2	0	120 - 130	MH201, 202
Benzoic acid	ug/kg dw	650	650	7	2	2	1,700 - 13,000	MH201, 202
Benzyl alcohol	ug/kg dw	57	73	7	2	2	300 - 31,000	MH201, 202, 203
Phenol	ug/kg dw	420	1,200	7	1	1	- 3,500	MH202
2-Methylphenol	ug/kg dw	63	63	7	1	1	750 - 5,700	MH201, 202

a. Sediment traps analyzed only for PCBs due to insufficient sample volume.

Table 15: Dallas stormwater PCB data post interim cleanup.

Stormwater stored in (5) 18,000 gallon tanks at S Donovan St and 17th Ave S and discharged to combined sewer system on S Donovan St. Discharge to Duwamish Waterway occurs only during large or long duration storms when tank capacity is exceeded.

Date	Location	PCB Aroclors (ug/L)								To River?
		_1016	_1221	_1232	_1242	_1248	_1254	_1260	T_PCB	
10/25/10	Sewer MH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	N
09/21/10	Sewer MH	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	N
08/09/10	Sewer MH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	N
06/03/10	Sewer MH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	N
05/20/10	Sewer MH	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	N
04/23/10	Sewer MH	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	**0.073**	**0.073**	N
03/16/10	Sewer MH	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	N
02/18/10	Sewer MH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	N
01/13/10	Sewer MH	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	N
12/23/09	Sewer MH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	N
11/19/09	Sewer MH	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	N
10/19/09	Discharge to Port CB	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
05/01/09	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
03/03/09	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/08/09	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
Dec-08	No sample									Y
11/13/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
09/11/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
06/02/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
04/02/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/14/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/09/08	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.12**	**0.12**	Y
12/03/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
11/12/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
10/04/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
07/20/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
05/24/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
04/30/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/20/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/03/07	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
Dec-06	No sample									Y
11/02/06	Sewer MH	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
09/19/06	Tanks 2 and 3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
06/01/06	Tank 1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
05/17/06	Tank 3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
04/12/06	Tank 1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
03/27/06	Tank 3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
03/01/06	Tank 1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/06/06	Discharge to Port CB	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
12/21/05	Tank 1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
11/14/05	Tank	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	Y
10/25/05	Tank 5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
09/12/05	Tank 3	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
06/23/05	Tank effluent	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
05/20/05	Tank effluent	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
04/19/05	Tank effluent	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
03/27/05	Tank effluent	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/06/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/04/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/04/05	After treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
02/04/05	Basin Oil runoff	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/24/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.167**	**0.167**	N
01/22/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.152**	**0.152**	N
01/22/05	Basin Oil runoff	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/20/05	After treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/19/05	After treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N
01/17/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.142**	**0.142**	N
01/17/05	Basin Oil runoff	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**0.383**	**0.383**	N
01/10/05	Prior to treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	**2.34**	**2.34**	N
12/20/05	After treatment	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	N

No entries = no discharge that month

Table 16: Results from source tracing samples collected from the streets adjacent to Terminal 117.

	Temporary Storm Drain System								Combined Sewer System									
Sample ID	**CB1-DAL[c]**	**CB2-DAL[c]**	**CB2-DAL**	**CB3-DAL[c]**	**RCB101[e]**	**CB4-DAL**	**SW1/Tanks**	**SW1/Tanks**	**SD10**	**SD11**	**SD12**	**SD14**	**SD14**	**SD16**	**SD17**	**SD18**	**SD22**	**SD30a**
Lab Ref	HW34	HW34	QN25	HW34	KR27	QN25	MK15	QN25	HD09	HD09	HD09	HD09	QN25	HD09	HD09	HD09	HG76/77	IQ73
Type	CB	CB	CS	CB	CB	CS	Tank	CS	Inlet	Dirt	Dirt	Inlet	CS	CB	CB	CB	Dirt	Dirt
Date	03/22/05	03/22/05	3/10/10	03/22/05	03/14/07	3/10/10	02/25/08	3/10/10	09/23/04	09/23/04	09/23/04	09/23/04	3/10/10	09/23/04	09/23/04	09/23/04	10/27/04	10/19/05
Total solids (%)	64.7	39.2	42.3	38.3	63.7	61.3	54	45	68.2	58.7	78.6	53.1	55.6	73.8	80.4	63.8	96.6	64.5
TOC (%)	NA	NA	10.9	NA	13.40	10.2	NA	9.15	5.80	6.48	4.08	9.41	4.1	4.35	2.59	2.88	0.883	NA
Metals (mg/kg DW)																		
Arsenic	NA	NA	10 U	NA	7 U	**8**	**20**	30 U	NA	NA	NA	NA	8 U	NA	NA	NA	NA	NA
Copper	NA	NA	**147**	NA	**50.6**	**143**	**472**	**284**	NA	NA	NA	NA	**112**	NA	NA	NA	NA	NA
Lead	NA	NA	**237** J	NA	**22**	**67** J	**450**	**250** J	NA	NA	NA	NA	**111** J	NA	NA	NA	NA	NA
Mercury	NA	NA	**0.08**	NA	0.05 U	**0.04**	0.08 U	**0.33**	NA	NA	NA	NA	**0.24**	NA	NA	NA	NA	NA
Zinc	NA	NA	**571**	NA	**237**	**588**	**1,890**	**1,040**	NA	NA	NA	NA	**602**	NA	NA	NA	NA	NA
Total petroleum hydrocarbons (mg/kg DW)[b]																		
TPH -diesel	NA	NA	**530**	NA	730 U	75 U	NA	**900**	NA	NA	NA	NA	**580**	NA	NA	NA	NA	NA
TPH-oil	NA	NA	**2,300**	NA	**4,100**	**550**	NA	**3,500**	NA	NA	NA	NA	**2,700**	NA	NA	NA	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Anthracene	NA	NA	**260** J	NA	220 U	41 U	56 U	**230** J	NA	NA	NA	NA	**380**	NA	NA	NA	NA	NA
Fluorene	NA	NA	**360** J	NA	220 U	41 U	56 U	**120** J	NA	NA	NA	NA	**450**	NA	NA	NA	NA	NA
Naphthalene	NA	NA	**550**	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	**630**	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	**2,100**	NA	**180** J	**110**	**120**	**750**	NA	NA	NA	NA	**1,900**	NA	NA	NA	NA	NA
Total LPAH	NA	NA	**3,270** J	NA	**180** J	**110**	**120**	**1,100** J					**3,360**					
HPAH (ug/kg DW)																		
Benzo(a)anthracene	NA	NA	**540**	NA	220 U	**44**	**63**	**330**	NA	NA	NA	NA	**620**	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	**710**	NA	220 U	**100**	**110**	**740**	NA	NA	NA	NA	**650**	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	**760**	NA	220 U	**150**	**160**	**750**	NA	NA	NA	NA	**720**	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	**390** J	NA	220 U	**74**	**69**	**400**	NA	NA	NA	NA	**370**	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	**760**	NA	220 U	**150**	**180**	**750**	NA	NA	NA	NA	**720**	NA	NA	NA	NA	NA
Chrysene	NA	NA	**1,400**	NA	**310**	**260**	**210**	**1,200**	NA	NA	NA	NA	**1,100**	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	**1,800**	NA	**470**	**190** J	**270**	**1,400**	NA	NA	NA	NA	**1,900**	NA	NA	NA	NA	NA
Indeno(1,2,3-c,d)pyrene	NA	NA	460 U	NA	220 U	**48**	56 U	**210** J	NA	NA	NA	NA	**230** J	NA	NA	NA	NA	NA
Pyrene	NA	NA	**1,700**	NA	**380**	**210** J	**210**	**1,700**	NA	NA	NA	NA	**1,900**	NA	NA	NA	NA	NA
Total HPAH	NA	NA	**8,060** J	NA	**1,160**	**1,226** J	**1,272**	**7,480** J	NA	NA	NA	NA	**8,210** J	NA	NA	NA	NA	NA
Phthalates (ug/kg DW)																		
Bis(2-ethylhexyl)phthalate	NA	NA	**21,000**	NA	**2,500**	**1,600** J	**6,200**	**18,000**	NA	NA	NA	NA	**24,000**	NA	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	**580**	NA	**920**	**260**	**400**	240 U	NA	NA	NA	NA	**1,600**	NA	NA	NA	NA	NA
Diethylphthalate	NA	NA	**630**	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Dimethylphthalate	NA	NA	460 U	NA	220 U	**80**	**75**	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Di-n-butylphthalate	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	**350**	NA	NA	NA	NA	NA
Di-n-octyl phthalate	NA	NA	460 U	NA	**120** J	41 U	**80**	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
PCBs (ug/kg DW)																		
1016	770 U	1,000 U	47 U	520 U	98 U	39 U	38 U	40 U	20 U	87 U	85 U	93 U	38 U	67 U	24 U	30 U	20 U	300 U
1221	770 U	1,000 U	47 U	520 U	98 U	39 U	38 U	40 U	20 U	87 U	85 U	93 U	38 U	67 U	24 U	30 U	20 U	300 U
1232	770 U	1,000 U	71 Y	520 U	98 U	39 U	38 U	40 U	20 U	87 U	85 U	93 U	38 U	67 U	24 U	30 U	20 U	300 U
1242	770 U	1,000 U	47 U	520 U	98 U	39 U	38 U	40 U	20 U	87 U	85 U	93 U	38 U	67 U	24 U	30 U	20 U	300 U
1248	770 U	1,000 U	47 U	520 U	98 U	39 U	38 U	60 Y	20 U	87 U	85 U	93 U	38 U	67 U	24 U	30 U	20 U	300 U
1254	6,600 Y	4,000 Y	**140** NJ	520 U	98 U	**140** NJ	38 U	**280** NJ	20 U	87 U	85 U	93 U	**120** NJ	67 U	24 U	30 U	20 U	300 U
1260	**23,000**	**14,000**	**280**	**3,900**	**310**	**420**	**350**	**340**	**28**	**580**	**460**	**170**	**160**	**360**	**340**	**360**	**28**	**2,400**
Total PCBs	**23,000**	**14,000**	**420** NJ	**3,900**	**310**	**560** NJ	**350**	**620** NJ	**28**	**580**	**460**	**170**	**280** NJ	**360**	**340**	**360**	**28**	**2,400**
Other organic compound	NA	NA																
1,2,4-Trichlorobenzene	NA	NA	460 U	NA	220 U	41 U	280 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
2,2'-Oxybis(1-chloropropan	NA	NA	460 UJ	NA	220 U	41 UJ	56 U	240 UJ	NA	NA	NA	NA	330 UJ	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	2,300 U	NA	1,100 U	210 U	56 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol[a]	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	4,600 U	NA	2,200 U	410 U	560 U	2,400 U	NA	NA	NA	NA	3,300 U	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	460 U	NA	220 U	41 U	280 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA

Table 16: Results from source tracing samples collected from the streets adjacent to Terminal 117.

	Temporary Storm Drain System								Combined Sewer System									
Sample ID	**CB1-DAL[c]**	**CB2-DAL[c]**	**CB2-DAL**	**CB3-DAL[c]**	**RCB101[e]**	**CB4-DAL**	**SW1/Tanks**	**SW1/Tanks**	**SD10**	**SD11**	**SD12**	**SD14**	**SD14**	**SD16**	**SD17**	**SD18**	**SD22**	**SD30a**
Lab Ref	HW34	HW34	QN25	HW34	KR27	QN25	MK15	QN25	HD09	HD09	HD09	HD09	QN25	HD09	HD09	HD09	HG76/77	IQ73
Type	CB	CB	CS	CB	CB	CS	Tank	CS	Inlet	Dirt	Dirt	Inlet	CS	CB	CB	CB	Dirt	Dirt
Date	03/22/05	03/22/05	3/10/10	03/22/05	03/14/07	3/10/10	02/25/08	3/10/10	09/23/04	09/23/04	09/23/04	09/23/04	3/10/10	09/23/04	09/23/04	09/23/04	10/27/04	10/19/05
2-Methylnaphthalene	NA	NA	**490**	NA	220 U	41 U	280 U	**120** J	NA	NA	NA	NA	**240** J	NA	NA	NA	NA	NA
2-Methylphenol[a]	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	2,300 UJ	NA	1,100 U	210 U	280 U	1,200 UJ	NA	NA	NA	NA	1,600 UJ	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	2,300 U	NA	1,100 U	210 UR	56 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	2,300 U	NA	1,100 U	210 UR	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	4,600 U	NA	2,200 U	410 U	560 U	2,400 U	NA	NA	NA	NA	3,300 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylethe	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NA	NA	2,300 U	NA	1,100 U	210 U	56 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	2,300 U	NA	1,100 U	41 U	56 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylethe	NA	NA	460 U	NA	220 U	210 UR	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
4-Methylphenol[a]	NA	NA	**370** J	NA	**690**	**630**	**62**	240 U	NA	NA	NA	NA	**300** J	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	2,300 U	NA	1,100 U	210 UR	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
Benzoic acid[a]	NA	NA	4,600 U	NA	2,200 U	**270** J	56 U	2,400 U	NA	NA	NA	NA	3,300 U	NA	NA	NA	NA	NA
Benzyl alcohol[a]	NA	NA	400 J	NA	**480**	**56**	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
bis(2-Chloroethoxy) methar	NA	NA	**460** U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Bis-(2-chloroethyl) ether	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Carbazole	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	**280** J	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	**240** J	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	**220** J	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	460 U	NA	220 U	41 U	280 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	2,300 UJ	NA	1,100 U	210 UJ	56 U	1,200 UJ	NA	NA	NA	NA	1,600 UJ	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Isophorone	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	2,300 U	NA	1,100 U	210 U	280 U	1,200 U	NA	NA	NA	NA	1,600 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	460 U	NA	220 U	41 U	56 U	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA
Pentachlorophenol[a]	NA	NA	2,300 UJ	NA	1,100 U	210 UJ	280 U	1,200 UJ	NA	NA	NA	NA	1,600 UJ	NA	NA	NA	NA	NA
Phenol[a]	NA	NA	460 U	NA	220 U	**110**	**57**	240 U	NA	NA	NA	NA	330 U	NA	NA	NA	NA	NA

a. SMS based on dry weight
b. MTCA Method A soil cleanup level for unrestricted use.
c. Catch basins cleaned after sampling
d. Streets and catch basins pressure washed after sampling (December 2005).
e. Same as CB4-DAL

J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
UJ = Chemical was not detected at concentration shown and the concentration was an estimated value
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
NJ = Aroclor 1254 was detected and the reported concentration is biased high. Higher or equivalent level of Aroclor 1260 was present in this sample, which significantly affected the accuracy of the identification and quantititaion of Aroclor 1254 due to common congeners between Aroclor 1254 and Aroclor 1260.

Concentration exceeds the SQS/LAET/MTCA
Concentration exceeds the CSL/2LAET

Table 16: Results from source tracing samples collected from the streets adjacent to Terminal 117.

	Combined Sewer System								
Sample ID	**SD31**	**SD32**	**SD33**	**SD34**	**SD53**	**RCB181**	**RCB182**	**RCB183**	**RCB184**
Lab Ref	IQ73	IQ73	IQ73	IQ73	HV82	QN25	QN25	QN25	QN25
Type	Dirt	Dirt	Dirt	Dirt	CB	Inlet	CB	Inlet	CB
Date	10/19/05	10/19/05	10/19/05	10/19/05	03/16/05	3/10/10	3/10/10	3/10/10	3/10/10
Total solids (%)	65.6	68.7	81.2	85.1	34.5	61.9	23	43.1	46.9
TOC (%)	NA	NA	NA	NA	NA	NA	12.3	7.5	7.09
Metals (mg/kg DW)									
Arsenic	NA	NA	NA	NA	NA	**9**	20 U	**10**	**10**
Copper	NA	NA	NA	NA	NA	**105**	**116**	**85.5**	**103**
Lead	NA	NA	NA	NA	NA	**83** J	**101** J	**719** J	**61** J
Mercury	NA	NA	NA	NA	NA	**0.04**	0.1 U	**0.87**	**0.08**
Zinc	NA	NA	NA	NA	NA	**278**	**813**	**592**	**430**
Total petroleum hydrocar									
TPH -diesel	NA	NA	NA	NA	NA	NA	**860**	**1,000**	**530**
TPH-oil	NA	NA	NA	NA	NA	NA	**3,100**	**2,200**	**1,700**
LPAH (ug/kg DW)									
Acenaphthene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Acenaphthylene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Anthracene	NA	NA	NA	NA	NA	170 U	**160** J	100 U	230 U
Fluorene	NA	NA	NA	NA	NA	170 U	**210**	100 U	**140** J
Naphthalene	NA	NA	NA	NA	NA	170 U	**100** J	100 U	230 U
Phenanthrene	NA	NA	NA	NA	NA	**360**	**1,300**	100 U	**750**
Total LPAH						**360**	**1,770** J	**100**	**890** J
HPAH (ug/kg DW)									
Benzo(a)anthracene	NA	NA	NA	NA	NA	**300**	**340**	100 U	**390**
Benzo(a)pyrene	NA	NA	NA	NA	NA	**420**	**580**	**110**	**450**
Benzo(b)fluoranthene	NA	NA	NA	NA	NA	**450**	**650**	**140**	**550**
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	**180**	**440**	**110**	**330**
Benzo(k)fluoranthene	NA	NA	NA	NA	NA	**450**	**650**	**140**	**550**
Chrysene	NA	NA	NA	NA	NA	**600**	**1,500**	**280**	**870**
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	170 U	**58** J	100 U	230 U
Fluoranthene	NA	NA	NA	NA	NA	**850**	**1,700**	**280**	**920**
Indeno(1,2,3-c,d)pyrene	NA	NA	NA	NA	NA	**140** J	**200**	**53** J	**190** J
Pyrene	NA	NA	NA	NA	NA	**780**	**2,500**	**560**	**1,200**
Total HPAH	NA	NA	NA	NA	NA	**4,170** J	**8,618** J	**1,673** J	**5,450** J
Phthalates (ug/kg DW)									
Bis(2-ethylhexyl)phthalate	NA	NA	NA	NA	NA	**5,200**	**27,000**	**7,300**	**12,000**
Butylbenzylphthalate	NA	NA	NA	NA	NA	**430**	190 U	100 U	**73,000**
Diethylphthalate	NA	NA	NA	NA	NA	170 U	**650**	**200**	230 U
Dimethylphthalate	NA	NA	NA	NA	NA	170 U	**1,200**	100 U	230 U
Di-n-butylphthalate	NA	NA	NA	NA	NA	**170** J	**330**	100 U	230 U
Di-n-octyl phthalate	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
PCBs (ug/kg DW)									
1016	300 U	140 U	120 U	230 U	580 U	53 U	62 U	75 U	38 U
1221	300 U	140 U	120 U	230 U	580 U	53 U	62 U	75 U	38 U
1232	300 U	140 U	120 U	230 U	580 U	53 U	62 U	75 U	38 U
1242	300 U	140 U	120 U	230 U	580 U	53 U	62 U	75 U	38 U
1248	300 U	140 U	120 U	230 U	580 U	53 U	93 Y	75 U	38 U
1254	300 U	140 U	120 U	230 U	**2,400**	**140** NJ	**180** NJ	**300** NJ	280 U
1260	**2,300**	**290**	**260**	**2,900**	**3,900**	**530**	**310**	**1,000**	**340**
Total PCBs	**2,300**	**290**	**260**	**2,900**	**6,300**	**670** NJ	**490** NJ	**1,300** NJ	**340**
Other organic compound									
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
2,2'-Oxybis(1-chloropropan	NA	NA	NA	NA	NA	170 UJ	190 UJ	100 UJ	230 UJ
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
2,4-Dichlorophenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
2,4-Dimethylphenol[a]	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
2,4-Dinitrophenol	NA	NA	NA	NA	NA	1,700 U	1,900 U	1,000 U	2,300 U
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
2-Chloronaphthalene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
2-Chlorophenol	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U

Table 16: Results from source tracing samples collected from the streets adjacent to Terminal 117.

	Combined Sewer System								
Sample ID	**SD31**	**SD32**	**SD33**	**SD34**	**SD53**	**RCB181**	**RCB182**	**RCB183**	**RCB184**
Lab Ref	IQ73	IQ73	IQ73	IQ73	HV82	QN25	QN25	QN25	QN25
Type	Dirt	Dirt	Dirt	Dirt	CB	Inlet	CB	Inlet	CB
Date	10/19/05	10/19/05	10/19/05	10/19/05	03/16/05	3/10/10	3/10/10	3/10/10	3/10/10
2-Methylnaphthalene	NA	NA	NA	NA	NA	170 U	**320**	100 U	250
2-Methylphenol[a]	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
2-Nitroaniline	NA	NA	NA	NA	NA	860 UJ	970 UJ	510 UJ	1,200 UJ
2-Nitrophenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
3-Nitroaniline	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA	1,700 U	1,900 U	1,000 U	2,300 U
4-Bromophenyl-phenylethe	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
4-Chloro-3-methylphenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
4-Chloroaniline	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
4-Chlorophenyl-phenylethe	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
4-Methylphenol[a]	NA	NA	NA	NA	NA	**2,000**	**1,900**	**140**	**230**
4-Nitroaniline	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
4-Nitrophenol	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
Benzoic acid[a]	NA	NA	NA	NA	NA	1,700 U	**800** J	**320** J	2,300 U
Benzyl alcohol[a]	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
bis(2-Chloroethoxy) methar	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Bis-(2-chloroethyl) ether	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Carbazole	NA	NA	NA	NA	NA	**89** J	**120** J	100 U	230 U
Dibenzofuran	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Hexachlorobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Hexachlorobutadiene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	860 UJ	970 UJ	510 UJ	1,200 UJ
Hexachloroethane	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Isophorone	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Nitrobenzene	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA	860 U	970 U	510 U	1,200 U
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U
Pentachlorophenol[a]	NA	NA	NA	NA	NA	860 UJ	970 UJ	510 UJ	1,200 UJ
Phenol[a]	NA	NA	NA	NA	NA	170 U	190 U	100 U	230 U

Table 19: Exceedances of SMS/MTCA benchmarks in samples collected from Norfolk CSO/SD/PS17 EOF.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Sediment traps								
Mercury	mg/kg	0.41	0.59	13	1	1	- 0.70	NST3
Zinc	mg/kg	410	960	13	9	1	484 - 1,230	NST1, NST2, NST3, NST4, NST5
TPH-diesel	mg/kg	2,000	NA	5	1	NA	- 2,300	NST2
TPH-oil	mg/kg	2,000	NA	5	4	NA	4,400 - 8,200	NST2, NST3
PCBs	ug/kg dw	130	1,000	19	5	0	136 - 530	NST2, NST5
BEHP	ug/kg dw	1,300	1,900	8	7	7	6,100 - 16,000	NST1, NST2, NST3
Butylbenzylphthalate	ug/kg dw	63	900	8	4	4	260 - 1,500	NST1, NST2, NST3
Dimethylphthalate	ug/kg dw	71	160	8	3	3	290 - 660	NST1, NST2
2-Methylphenol	ug/kg dw	63	63	8	1	1	- 83	NST3
Onsite catch basins								
Zinc	mg/kg	410	960	6	3	1	565 - 1,980	CB72, 77, 78
TPH-diesel	mg/kg	2,000	NA	5	2	NA	2,600 - 3,100	CB77, 84
TPH-oil	mg/kg	2,000	NA	5	4	NA	5,600 - 15,000	CB77, 78, 84
PCBs	ug/kg dw	130	1,000	6	1	0	- 320	CB84
BEHP	ug/kg dw	1,300	1,900	6	6	6	4,100 - 45,000	CB72, 77, 78, 82, 84
Butylbenzylphthalate	ug/kg dw	63	900	6	4	2	450 - 4,600	CB77, 78, 82, 84
Dimethylphthalate	ug/kg dw	71	160	6	1	1	- 560	CB78
LPAH	ug/kg dw	5,200	5,200	6	2	2	22,900 - 66,230	CB78, 84
HPAH	ug/kg dw	12,000	17,000	6	3	3	19,190 - 585,400	CB78, 82, 84
2-Methylnaphthalene	ug/kg dw	670	670	6	3	3	680 - 3,900	CB72, 84
Dibenzofuran	ug/kg dw	540	540	6	2	2	1,700 - 3,900	CB78, 84
4-Methylphenol	ug/kg dw	670	670	6	1	1	- 1,200	CB77
Right-of-way catch basins								
Zinc	mg/kg	410	960	9	1	0	- 530	RCB124
BEHP	ug/kg dw	1,300	1,900	9	2	1	1,500 - 2,150	RCB116, 121
Butylbenzylphthalate	ug/kg dw	63	900	9	4	2	110 - 4,400	RCB116, 121, 123, 130
Inline sediment grabs							-	
Zinc	mg/kg	410	960	18	7	0	540 - 766	NST1, NST3
TPH-oil	mg/kg	2,000	NA	16	8	NA	2,400 - 8,100	NST1, NST2, NST3
BEHP	ug/kg dw	1,300	1,900	18	11	9	1,500 - 14,000	NST1, NST2, NST3
Butylbenzylphthalate	ug/kg dw	63	900	18	7	0	110 - 400	NST1, NST3
PCBs	ug/kg dw	130	1,000	18	1	0	- 150	NST1
4-Methylphenol	ug/kg dw	670	670	18	2	2	1,000 - 4,400	NST3
Phenol	ug/kg dw	420	1,200	18	1	0	- 470	NST3

Table 21: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging along the east side of the Duwamish Waterway.

Includes samples collected from S River St SD, KCIA SD#1, I-5 SD at S Ryan St

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Sediment traps								
Zinc	mg/kg	410	960	1	1	0	- 559	KCIA1-ST1
BEHP	ug/kg dw	1,300	1,900	1	1	1	- 3,700	KCIA1-ST1
HPAH	ug/kg dw	12,000	17,000	1	1	1	- 32,700	KCIA1-ST1
Inline grabs								
Arsenic	mg/kg	57	93	6	2	2	96 - 110	MH211, 235
Copper	mg/kg	390	390	6	2	2	442 - 470	MH211, 235
Zinc	mg/kg	410	960	6	5	3	552 - 1,640	KCIA1-ST, MH211, 220, 221, 235
TPH-diesel	mg/kg	2,000	NA	6	3	NA	2,100 - 5,100	MH211, 215, 235
TPH-oil	mg/kg	2,000	NA	6	5	NA	2,500 - 9,300	MH211, 215, 220, 221, 235
PCBs	ug/kg dw	130	1,000	6	4	0	201 - 450	MH215, 220, 221, 235
BEHP	ug/kg dw	1,300	1,900	6	5	4	1,600 - 5,800	MH211, 215, 220, 221, 235
Butylbenzylphthalate	ug/kg dw	63	900	6	4	1	140 - 1,300	MH215, 220, 221, 235
Dimethylphthalate	ug/kg dw	71	160	6	1	0	- 76	MH221
Right-of-way catch basins								
Zinc	mg/kg	410	960	2	1	0	- 413	CB202
TPH-oil	mg/kg	2,000	NA	2	2	NA	2,800 - 4,700	CB202, 205
BEHP	ug/kg dw	1,300	1,900	2	2	2	2,800 - 7,400	CB202, 205
Butylbenzylphthalate	ug/kg dw	63	900	2	2	0	150 - 170	CB202, 205
Dimethylphthalate	ug/kg dw	71	160	2	2	1	120 - 160	CB202, 205

Table 22: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging along the west side of the Duwamish Waterway.

Includes samples collected from SW Dakota St SD, SW Idaho St SD, SW Kenny St SD/T115 CSO, Highland Park Wy SW SD, 1st Ave S SD (west), 7th Ave S SD, S 96th St SD, Hamm Creek, and private storm drains.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Sediment traps								
Zinc	mg/kg	410	960	17	8	0	458 - 918	96-ST2, KN-ST1, 1st-ST1, 1st-ST2, ID-ST1, 7th-ST1, 7th-ST3, HP-ST6
TPH-diesel	mg/kg	2,000	NA	14	1	NA	- 2,400	1st-ST1
TPH-oil	mg/kg	2,000	NA	14	5	NA	2,600 - 11,000	1st-ST1, 1st-ST7, ID-ST1, HP-ST6, KN-ST1
PCBs	ug/kg dw	130	1,000	17	2	0	264 - 279	7th-ST1, ID-ST1
BEHP	ug/kg dw	1,300	1,900	15	9	8	1,500 - 20,000	1st-ST1, 1st-ST7, 7th-ST3, 96-ST1, 96-ST2, HP-ST4, HP-ST6, ID-ST1, KN-ST
Butylbenzylphthalate	ug/kg dw	63	900	15	8	1	110 - 1,200	1st-St1, 7th-ST3, 96-ST2, HP-ST4, HP-ST6, ID-ST1, KN-ST1
4-Methylphenol	ug/kg dw	670	670	15	5	5	1,400 - 3,400	1st-ST3, 1st-ST7, 96-ST1, HP-ST4, ID-ST1
HPAH	ug/kg dw	12,000	17,000	15	2	1	13,900 - 108,800	ID-ST1, 96-ST1
Onsite catch basins								
Arsenic	mg/kg	57	93	14	1	1	- 710	CB137
Copper	mg/kg	390	390	14	6	6	590 - 4,930	CB91, 102, 103, 104, 137, 206
Lead	mg/kg	450	530	14	1	1	- 1,280	CB 206
Mercury	mg/kg	0	1	14	1	1	- 3	CB206
Zinc	mg/kg	410	960	14	12	7	504 - 5,830	CB41C, 91, 114, 129, 137, 150, 206, Port CB6
TPH-diesel	mg/kg	2,000	NA	14	3	NA	4,600 - 9,000	CB91, 129, 206
TPH-oil	mg/kg	2,000	NA	14	8	NA	2,100 - 28,000	CB91, 129, 137, 142, 150, 206, PortCB6
PCBs	ug/kg dw	130	1,000	14	8	3	135 - 5,930	CB41C, 103, 104, 142, 150, 154, 206, PortCB6
LPAH	ug/kg dw	5,200	5,200	14	2	2	26,870 - 1,253,000	CB91, 206
HPAH	ug/kg dw	12,000	17,000	14	3	3	13,500 - 2,062,000	CB91, 102, 206
2-Methylnaphthalene	ug/kg dw	670	670	14	4	4	790 - 34,000	CB91, 94, 95, 97, CH-E
Dibenzofuran	ug/kg dw	540	540	14	2	2	1,000 - 53,000	CB91, 206
BEHP	ug/kg dw	1,300	1,900	14	11	11	1,900 - 99,000	CB41C, 102, 103, 104, 129, 137, 142, 150, 154, 206, PortCB6
Butylbenzylphthalate	ug/kg dw	63	900	14	11	11	95 - 25,000	CB41C, 102, 103, 104, 129, 137, 142, 150, 154, 206, Port CB6
Dimethylphthalate	ug/kg dw	71	160	14	6	4	73 - 600	CB41C, 102, 103, 150, 154, 206
Di-n-butylphthalate	ug/kg dw	1,400	1,400	14	2	2	2,800 - 5,800	CB150, 206
2-Methylphenol	ug/kg dw	63	63	14	3	3	110 - 750	CB97, 150, 154
4-Methylphenol	ug/kg dw	670	670	14	3	3	960 - 13,000	CB129, 150, 206
Phenol	ug/kg dw	420	1,200	14	3	1	640 - 1,400	CB103, 150, 206
Benzoic acid	ug/kg dw	650	650	14	2	2	1,000 - 1,500	CB137, 150
Benzyl alcohol	ug/kg dw	57	73	14	8	8	120 - 5,050	CB90, 101, 102, 103, 104, 154, CH-E, CH-N

Table 22: Exceedances of SMS/MTCA benchmarks in samples collected from storm drains discharging along the west side of the Duwamish Waterway.

Includes samples collected from SW Dakota St SD, SW Idaho St SD, SW Kenny St SD/T115 CSO, Highland Park Wy SW SD, 1st Ave S SD (west), 7th Ave S SD, S 96th St SD, Hamm Creek, and private storm drains.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Right-of-way catch basins								
Arsenic	mg/kg	57	93	25	1	1	- 750	RCB159
Copper	mg/kg	390	390	25	1	1	- 4,520	RCB159
Lead	mg/kg	450	530	25	1	1	- 548	RCB131
Zinc	mg/kg	410	960	25	9	3	424 - 3,650	RCB53, 129, 131, 132, 312, 154, 159, 165, 200a
TPH-oil	mg/kg	2,000	NA	25	10	NA	2,200 - 6,300	RCB129, 131, 132, 154, 159, 165, 170, 210, 213, 214
PCBs	ug/kg dw	130	1,000	25	8	0	133 - 610	RCB131, 159, 170, 185, 200a, 210, 213, 214
HPAH	ug/kg dw	12,000	17,000	25	2	1	16,440 36,520	RCB53, 131
BEHP	ug/kg dw	1,300	1,900	25	12	10	1,400 - 5,100	RCB53, 129, 132, 137, 154, 158, 165, 170, 185, 210, 213, 214
Butylbenzylphthalate	ug/kg dw	63	900	25	16	4	74 - 19,000	RCB52, 53, 54, 129, 131, 132, 137, 154, 157, 158, 165, 185, 210, 213, 214, 223
Diethylphthalate	ug/kg dw	200	NA	25	1	NA	- 460	RCB53
Dimethylphthalate	ug/kg dw	71	160	25	4	3	180 - 400	RCB170, 210, 213, 214
Di-n-butylphthalate	ug/kg dw	1,400	1,400	25	1	1	- 1,700	RCB185
4-Methylphenol	ug/kg dw	670	670	25	3	3	1,400 - 1,700	RCB152, 219, 220
Benzoic acid	ug/kg dw	650	650	25	1	1	- 1,900	RCB185
Benzyl alcohol	ug/kg dw	57	73	25	5	5	250 3,700	RCB101, 129, 185, 210, CB2-DAL
Hexachlorobenzene	ug/kg dw	22	70	41	2	2	220 - 4,300	RCB158, SD14
Inline grabs								
Arsenic	mg/kg	57	93	41	1	0	- 70	KN-ST1
Lead	mg/kg	450	530	41	1	0	- 470	KN-ST1
Mercury	mg/kg	0	1	41	4	1	0.42 - 0.60	1st-ST5, KN-ST1
Zinc	mg/kg	410	960	41	19	2	426 - 2,530	1st-ST1, 1st-ST5, 7th-ST1, 7th-ST3, HP-ST6, KN-ST1, MH218, 228, 229, 239
TPH-oil	mg/kg	2,000	NA	41	13	NA	2,100 - 4,800	1st-ST1, 1st-ST5, 7th-ST1, 7th-ST3, HP-ST6, KN-ST1, MH218, 228, 230, 239
PCBs	ug/kg dw	130	1,000	41	7	1	167 - 2,400	7th-St1, KN-ST1, 229, 239
LPAH	ug/kg dw	5,200	5,200	41	1	1	- 5,240	KN-ST1
HPAH	ug/kg dw	12,000	17,000	41	1	0	- 19,030	KN-ST1
BEHP	ug/kg dw	1,300	1,900	41	19	17	1,500 - 44,000	1st-ST1, 1st-ST2, 1st-ST5, 7th-ST1, 7th-ST3, HP-ST6, KN-ST1, MH218, 228, 229, 239
Butylbenzylphthalate	ug/kg dw	63	900	41	18	1	64 - 1,200	1st-ST1, 1st-ST2, 7th-ST1, 7th-ST3, 96-ST1, HP-St6, KN-St1, MH216, 229, 239
Dimethylphthalate	ug/kg dw	71	160	41	4	0	72 - 120	1st-ST1, 7th-ST3, HP-ST6
4-Methylphenol	ug/kg dw	670	670	41	1	1	- 2,800	MH239
n-Nitrosodiphenylamine	ug/kg dw	28	40	41	1	1	- 89	KN-ST1

Table 23: Exceedances of SMS/MTCA benchmarks in samples collected from catch basins discharging to the combined sewer system.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Onsite catch basins								
Arsenic	mg/kg	57	93	24	3	2	60 - 480	CB94, 95, 130
Copper	mg/kg	390	390	24	2	2	557 - 1,820	CB30, 90, 93, 94, 95, 96, 130, 144, CH-E, CH-N
Lead	mg/kg	450	530	24	3	3	1,180 - 1,760	CB97, 144, 145
Mercury	mg/kg	0.41	0.59	24	6	6	0.58 - 21	CB30, 93, 97, 130, 144, CH-E
Zinc	mg/kg	410	960	24	14	8	415 - 3,290	CB13, 19, 27A, 27B, 30, 85, 90, 93, 94, 95, 96, 97, CH-E, CH-N
TPH-diesel	mg/kg	2,000	NA	23	7	NA	3,700 - 67,000	CB94, 95, 27A, 27B, 113, 130, 144
TPH-oil	mg/kg	2,000	NA	23	15	NA	2,100 - 390,000	CB19, 27A, 27B, 30, 80, 85, 93, 94, 95, 96, 113, 119, 130,144, 147, CH-N
PCBs	ug/kg dw	130	1,000	24	17	9	182 - 7,000	CB13, 19, 27B, 30, 85, 90, 93, 95, 96, 97, 98, 144, 146, 147, 148, CH-E, CH-N
LPAH	ug/kg dw	5,200	5,200	24	3	3	9,810 - 79,700	CB90, 119, 130
HPAH	ug/kg dw	12,000	17,000	24	5	4	13,500 - 262,300	CB27B, 90, 95, 119, 130
2-Methylnaphthalene	ug/kg dw	670	670	24	7	7	710 - 39,000	CB80, 94, 95, 97, 119, 130, CH-E
Dibenzofuran	ug/kg dw	540	540	24	2	2	4,100 6,400	CB119, 130
BEHP	ug/kg dw	1,300	1,900	24	19	18	1,600 - 1,400,000	CB13, 19, 27A, 27B, 30, 80, 85, 90, 93, 94, 95, 96, 113, 119, 130, 144, 147, CH-E, CH-N
Butylbenzylphthalate	ug/kg dw	63	900	24	16	10	220 - 97,000	CB13, 19, 80, 90, 93, 94, 95, 96, 98, 130, 144, 147, CH-E, CH-N
Dimethylphthalate	ug/kg dw	71	160	24	6	6	220 - 1,900	CB13, 80, 94, 96, CH-E, CH-N
Di-n-butylphthalate	ug/kg dw	1,400	1,400	24	1	1	- 11,000	CB1300
2,4-Dimethylphenol	ug/kg dw	29	29	24	1	1	- 9,200	CB97
2-Methylphenol	ug/kg dw	63	63	24	1	1	- 680	CB120
4-Methylphenol	ug/kg dw	670	670	24	9	9	880 - 67,000	CB13, 19, 27A, 27B, 80, 93, 94, 95, 97, 144
Phenol	ug/kg dw	420	1,200	24	5	4	870 - 13,000	CB93, 94, 95, 120, 130
Benzoic acid	ug/kg dw	650	650	24	3	3	660 - 19,000	CB13, 94, 130
Benzyl alcohol	ug/kg dw	57	73	24	3	3	500 - 1,600	CB80, 130, CH-E
Right-of-way catch basins								
Lead	mg/kg	450	530	19	1	1	- 719	RCB183
Mercury	mg/kg	0.41	0.59	19	1	1	- 0.87	RCB183
Zinc	mg/kg	410	960	19	10	1	430 - 1,040	CB2-DAL, CB4-DAL, RCB111, RCB112, RCB113, RCB183, RCB184, SD14, SW1
TPH-diesel	mg/kg	2,000	NA	18	1	NA	- 4,600	RCB142
TPH-oil	mg/kg	2,000	NA	18	11	NA	2,200 - 20,000	RCB101, 112, 113, 114, 115, 142, 182, 183 and SD14, SW1, CB2-DAL
PCBs	ug/kg dw	130	1,000	16	12	1	151 - 1,300	RCB101, 113, 114, 115, 181, 182, 183, 184, and CB2-DAL, CB4-DAL, SD14, SW1
BEHP	ug/kg dw	1,300	1,900	19	17	15	1,400 - 27,000	RCB49, 101, 111, 112, 113, 114, 115, 142, 156, 181, 182, 183, 184, and CB2-DAL, CB4-DAL, SD14, SW1
Butylbenzylphthalate	ug/kg dw	63	900	19	12	5	110 - 73,000	RCB49, 101, 111, 113, 114, 115, 156, 181, 184, and SD14, SW1
Diethylphthalate	ug/kg dw	200	NA	19	2	NA	630 - 650	CB2-DAL, RCB182
Dimethylphthalate	ug/kg dw	71	160	19	3	2	80 - 1,200	CB4-DAL, RCB113, RCB182
2,4-Dimethylphenol	ug/kg dw	29	29	19	1	0	- 840	RCB142
4-Methylphenol	ug/kg dw	670	670	19	3	3	690 - 2,000	RCB101, 181, 182
Phenol	ug/kg dw	420	1,200	19	1	0	- 1,000	RCB142
Benzoic acid	ug/kg dw	650	650	19	1	1	- 800	RCB182
Benzyl alcohol	ug/kg dw	57	73	19	2	2	400 - 1,100	RCB111, CB2-DAL

Table 25: Exceedances of SMS/MTCA benchmarks in samples collected from S Brighton St, S Myrtle St, S Garden St storm drains.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Inline grabs								
Arsenic	mg/kg	57	93	13	5	4	58 - 1,420	MH111, 205, 223, 226, 227
Copper	mg/kg	390	390	13	5	5	500 - 2,200	MH100b, 111, 223, 227, 240
Lead	mg/kg	450	530	13	7	6	473 - 1,710	MH110b, 111, 223, 225, 227, 226, 240
Mercury	mg/kg	0.41	0.59	13	6	5	0.46 - 4.29	MH100b, 204, 224, 225, 226, 240
Zinc	mg/kg	410	960	13	12	5	455 - 8,960	MH100b, 101, 110, 111, 204, 205, 223, 224, 225, 226, 227, 240
TPH-diesel	mg/kg	2,000	NA	13	2	NA	17,000 - 21,000	MH240, 225
TPH-oil	mg/kg	2,000	NA	13	4	NA	4,900 - 60,000	MH100b, 225, 226, 240
PCBs	ug/kg dw	130	1,000	13	8	2	148 - 25,000	MH100b, 101, 111, 204, 205, 225, 226, 240
BEHP	ug/kg dw	1,300	1,900	13	8	8	2,200 - 210,000	MH100b, 101, 110, 111, 204, 205, 225, 240
Butylbenzylphthalate	ug/kg dw	63	900	13	9	2	110 - 12,000	MH100b, 101, 110, 111, 204, 205, 224, 226, 240
Dimethylphthalate	ug/kg dw	71	160	13	3	2	79 - 4,200	MH100b, 204, 240
Di-n-butylphthalate	ug/kg dw	1,400	1,400	13	1	1	- 2,600	MH240
Di-n-octylphthalate	ug/kg dw	6,200	NA	13	1	1	- 23,000	MH240
LPAH	ug/kg dw	5,200	5,200	13	2	2	13,645 - 29,700	MH110, 240
HPAH	ug/kg dw	12,000	17,000	13	3	2	13,465 - 110,200	MH110, 111, 240
2-Methylnaphthalene	ug/kg dw	670	670	13	1	1	- 13,000	MH240
Benzyl alcohol	ug/kg dw	57	73	13	1	1	- 110	MH205
Onsite catch basins								
Arsenic	mg/kg	57	93	6	2	1	60 - 208	CB207, 157F
Copper	mg/kg	390	390	6	5	5	975 - 7,990	CB157F, CB157S, CB207, RD1, RD2
Lead	mg/kg	450	530	6	5	5	1,260 - 2,240	CB157F, CB157S, CB207, RD1, RD2
Mercury	mg/kg	0.41	0.59	6	5	5	0.80 - 2.72	CB157F, CB157S, CB207, RD1, RD2
Zinc	mg/kg	410	960	6	6	5	810 - 13,300	CB157F, CB157S, CB163, CB207, RD1, RD2
TPH-diesel	mg/kg	2,000	NA	6	1	NA	- 5,200	CB207
TPH-oil	mg/kg	2,000	NA	6	5	NA	2,400 - 15,000	CB157F, CB157S, CB163, CB207, RD1
PCBs	ug/kg dw	130	1,000	6	6	5	311 - 18,300	CB157F, CB157S, CB163, CB207, RD1, RD2
BEHP	ug/kg dw	1,300	1,900	6	6	6	10,000 - 62,000	CB157F, CB157S, CB163, CB207, RD1, RD2
Butylbenzylphthalate	ug/kg dw	63	900	6	5	5	2,200 - 6,000	CB157F, CB157S, CB207, RD1, RD2
Dimethylphthalate	ug/kg dw	71	160	6	6	6	510 - 2,500	CB157F, 157S, 163, 207, RD1, RD2
Di-n-butylphthalate	ug/kg dw	1,400	1,400	6	3	3	1,500 - 2,300	CB157F, 207, RD2
HPAH	ug/kg dw	12,000	17,000	6	1	1	- 13,240	CB207
4-Methylphenol	ug/kg dw	670	670	6	2	2	1,400 - 7,800	CB163, 157S
Benzoic acid	ug/kg dw	650	650	6	2	2	870 - 1,100	CB157F, 157S
Phenol	ug/kg dw	420	1,200	6	1	1	- 1,300	CB157S

Table 25: Exceedances of SMS/MTCA benchmarks in samples collected from S Brighton St, S Myrtle St, S Garden St storm drains.

July 2005 - September 2010

	Units	SQS LAET	CSL 2LAET	n	No. above SQS/LAET/ MTCA	No. above CSL/2LAET	Range	Stations
Right-of-way catch basins								
Copper	mg/kg	390	390	11	3	3	1,020 - 3,280	RCB146, 180, 189F
Lead	mg/kg	450	530	11	4	2	467 - 904	RCB146, 147, 148, 189F
Mercury	mg/kg	0.41	0.59	11	6	4	0.42 - 1.08	RCB146, 147, 148, 176, 177, 189F
Zinc	mg/kg	410	960	11	11	11	938 - 3,890	RCB146, 147, 148, 176, 177, 178, 179, 180, 189F, 211, 212
TPH-diesel	mg/kg	2,000	NA	12	6	NA	2,500 6,800	RCB147, 148, 169, 179, 211, 212
TPH-oil	mg/kg	2,000	NA	12	11	NA	2,900 - 20,000	RCB147, 148, 169, 176, 177, 178, 179, 180, 189F,211, 212
PCBs	ug/kg dw	130	1,000	12	12	9	470 - 3,700	RCB146, 147, 148, 169, 176, 177, 178, 179, 180, 189F, 211, 212
HPAH	ug/kg dw	12,000	17,000	11	2	2	12,690 - 13,184	RCB148, 179
BEHP	ug/kg dw	1,300	1,900	11	11	11	6,800 - 84,000	RCB146, 147, 148, 176, 177, 178, 179, 180, 189F, 211, 212
Butylbenzylphthalate	ug/kg dw	63	900	11	11	11	1,400 - 6,200	RCB146, 147, 148, 176, 177, 178, 179, 180, 189F, 211, 212
Diethylphthalate	ug/kg dw	200	NA	11	1	0	- 340	RCB148
Dimethylphthalate	ug/kg dw	71	160	11	8	8	360 - 1,400	RCB146, 148, 176, 177, 178, 179, 180, 189F
Di-n-butylphthalate	ug/kg dw	1,400	1,400	11	1	1	- 3,200	RCB189F
4-Methylphenol	ug/kg dw	670	670	11	3	3	2,300 - 15,000	RCB147, 148, 178
Benzyl alcohol	ug/kg dw	57	73	11	2	2	440 - 690	RCB177, 189F

Table 26. Results for source tracing samples collected from S Myrtle St, S Garden St, and S Brighton St area (dry weight).

Sample ID	SQS/ LAET[b]	CSL/ 2LAET[c]	MH100B	RCB146	RCB147	RCB148	MH240	CB207	MH205	MH224	MH225	MH226	CB144	CB145	CB146	CB147	CB148
Lab Ref			NO90	NO90	NO90	NO90	PB20	PB20	OI27	OZ99	OZ99	OZ99	PA34	PA34	PA34	PA34	PA34
Sample Type			Inline	RCB	RCB	RCB	Inline	CB	Inline	Inline	Inline	Inline	CB	CB	Dirt	Dirt	Dirt
Outfall			S Myrtle St SD	S Garden St SD	S Myrtle St SD	S Myrtle St SD	S Garden St SD	S Garden St SD	S Brighton CSO/SD	S Brighton CSO/SD	S Brighton CSO/SD	S Brighton CSO/SD	8th Ave S (no SD)	CSS	CSS	CSS	CSS
Date			09/12/08	09/12/08	09/12/08	09/12/08	06/03/09	06/03/09	01/15/09	05/21/09	05/21/09	05/26/09	05/27/09	05/27/09	05/27/09	05/27/09	05/27/09
Total solids (%)			67.7	52.4	48.4	62.1	42.9	82	73.2	46.5	43.2	69.9	40.6	85.3	93.3	98.6	94.7
TOC (%)			6.89	6.85	5.25	9.40	18.70	11.00	3.56	6.75	5.50	5.29	7.06	2.22	1.42	3.59	1.70
Metals (mg/kg)																	
Arsenic	57	93	20 U	20 U	**12**	20 U	**40** J	**60** J	**125**	**30** J	**40** J	**58** J	**20** J	**20** J	**8** J	**10** J	**6** J
Copper	390	390	**500**	**1,020**	**365**	**386**	**2,200** J	**7,990** J	**209**	**227** J	**335** J	**273** J	**668** J	**876** J	**48.7** J	**224** J	**83.2** J
Lead	450	530	**675**	**670**	**428**	**467**	**1,710** J	**2,240** J	**121**	**222** J	**473** J	**757** J	**1,180** J	**1,480** J	**71** J	**400** J	**155** J
Mercury	0.41	0.59	**1.88**	**1.08**	**0.97**	**0.74**	**4.29** J	**2.72** J	**0.15**	**0.46** J	**1.15** J	**3.41** J	**0.98** J	**1.13** J	**0.15** J	**0.41** J	**0.23** J
Zinc	410	960	**2,420**	**2,900**	**1,540**	**1,950**	**8,960** J	**13,300** J	**710**	**959** J	**709** J	**905** J	**948** J	**900** J	**97** J	**391** J	**130** J
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel			**1,100**	**130**	**4,300**	**2,800**	**17,000**	**5,200**	**220**	**570**	**21,000**	**1,100**	**3,700**	**760**	**190**	**530**	**400**
TPH-oil			**5,100**	**760**	**11,000**	**10,000**	**60,000**	**15,000**	**920**	**1,400**	**30,000**	**4,900**	**4,500**	**2,100**	**600**	**2,200**	**940**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	190 U	140 U	590 U	**280**	**1,800** J	740 U	**66**	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Acenaphthylene	1,300	1,300	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Anthracene	960	960	190 U	**130** J	590 U	**450**	**3,200**	740 U	**180**	**33** J	170 U	**170** J	260 U	120 U	58 U	110 U	57 U
Fluorene	540	540	190 U	**100** J	590 U	**490**	**4,600**	740 U	**70**	58 U	170 U	190 U	**160** J	120 U	58 U	110 U	57 U
Naphthalene	2,100	2,100	190 U	**110** J	**1,000**	**970**	**4,100**	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Phenanthrene	1,500	1,500	**320**	**800**	**570** J	**2,600**	**16,000**	**2,100**	**440**	**180**	170 U	**1,200**	**430**	**190**	**160**	**81** J	**94**
Total LPAH	5,200	5,200	**320**	**1,140** J	**1,570** J	**4,790**	**29,700** J	**2,100**	**756**	**213** J	170 U	**1,370** J	**590** J	**190**	**160**	**81** J	**94**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**290**	**450**	**330** J	**950**	**5,100**	**1,200**	**260**	**130**	**160** J	**960**	**200** J	**180**	**100**	**76** J	**58**
Benzo(a)pyrene	1,600	1,600	**580**	**490**	590 U	**670**	**4,000**	**940**	**330**	**130**	**220**	**1,200**	**190** J	**190** J	**140** J	**93** J	**81** J
Benzo(b)fluoranthene	3,200	3,600	**680**	**820**	**490** J	**900**	**4,100**	**1,200**	**440**	**180**	**320**	**1,000**	**200** J	**200** J	**150** J	**92** J	**66** J
Benzo(g,h,i)perylene	670	720	**410**	**280**	590 U	**250** J	2,700 U	740 U	**180**	**65**	**160** J	**860**	**160** J	**140** J	**73** J	**55** J	**36** J
Benzo(k)fluoranthene	3,200	3,600	**660**	**1,000**	**540** J	**870**	**4,100**	**1,200**	**310**	**180**	**190**	**1,100**	**200** J	**200** J	**95** J	**92** J	**66** J
Chrysene	1,400	2,800	**490**	**1,200**	**620**	**1,500**	**7,300**	**1,800**	**390**	**200**	**540**	**1,500**	**520**	**400**	**160**	**230**	**96**
Dibenz(a,h)anthracene	230	230	**95** J	**92** J	590 U	260 U	2,700 U	740 U	**25** J	58 U	170 U	**130** J	260 U	120 U	58 U	110 U	57 U
Fluoranthene	1,700	2,500	**770**	**1,800**	**1,100**	**3,000**	**16,000**	**3,700**	**780**	**350**	**430**	**2,200**	**560**	**450**	**300**	**200**	**140**
Indeno(1,2,3-cd)pyrene	600	690	**290**	**220**	590 U	**170** J	2,700 U	740 U	**170**	**50** J	**100** J	**620**	260 U	**110** J	**67** J	110 U	57 U
Pyrene	2,600	3,300	**660**	**1,800**	**1,100**	**3,400**	**15,000**	**3,200**	**790**	**290**	**1,700**	**1,700**	**750**	**340**	**170**	**140**	**110**
Total HPAH	12,000	17,000	**4,925** J	**8,152** J	**4,180** J	**11,710** J	**55,600**	**13,240**	**3,675** J	**1,575** J	**3,820** J	**11,270** J	**2,780** J	**2,210** J	**1,255** J	**978** J	**653**
Phthalates (ug/kg DW)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**3,000**	**47,000**	**35,000**	**36,000**	**210,000**	**62,000**	**2,300**	**1,100**	**5,000**	**1,300**	**14,000** B	**3,400** B	63 U	**2,000** B	290 U
Butylbenzylphthalate	63	900	**1,500**	**2,100**	**1,900**	**4,400**	**12,000**	**6,000**	**110**	**220**	170 U	**340**	**2,100**	**360**	58 U	**420**	57 U
Diethylphthalate	200		190 U	140 U	590 U	**360**	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Dimethylphthalate	71	160	**200**	**360**	590 U	**230** J	**4,200**	**1,400**	39 U	**35** J	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Di-n-butylphthalate	1,400	1,400	**400**	**750**	**1,100**	**670**	**2,600** J	**2,300**	**36** J	**49** J	170 U	**130** J	**420**	**220**	58 U	**100** J	57 U
Di-n-octyl phthalate	6,200		**190**	**1,100**	**1,500**	**2,900**	**23,000**	**6,000**	**200**	**41** J	130 J	190 U	**850**	**170**	58 U	**98** J	57 U
PCBs (ug/kg DW)																	
Aroclor 1016			200 U	200 U	58 U	400 U	420 U	470 U	18 U	20 U	20 U	97 U	760 U	1,400 U	19 U	290 U	19 U
Aroclor 1221			200 U	200 U	58 U	400 U	420 U	470 U	18 U	20 U	20 U	97 U	760 U	1,400 U	19 U	290 U	19 U
Aroclor 1232			200 U	200 U	58 U	400 U	420 U	470 U	18 U	20 U	20 U	97 U	760 U	1,400 U	19 U	290 U	19 U
Aroclor 1242			200 U	200 U	58 U	400 U	**17,000**	470 U	18 U	20 U	20 U	97 U	760 U	1,400 U	19 U	290 U	19 U
Aroclor 1248			390 Y	**860**	**240**	**1,600**	420 U	**7,100**	**30**	20 U	99 Y	97 U	760 U	1,400 U	19 U	290 U	19 U
Aroclor 1254			**1,200**	**1,200**	**360**	**2,100**	**6,400**	**8,600**	**61**	**34**	**370**	97 U	**1,800**	**3,800**	**52**	**590**	**130**
Aroclor 1260			**350**	**500**	**94**	400 U	**1,600** J	**2,600** J	**57**	**39** J	**410**	**350**	**1,800**	**3,100**	**130** J	**750**	**400**
Total PCBs	130	1,000	**1,550**	**2,560**	**694**	**3,700**	**25,000** J	**18,300** J	**148**	**73** J	**780**	**350**	**3,600**	**6,900**	**182** J	**1,340**	**530**
Other organic compounds (ug/kg DW)																	
1,2,4-Trichlorobenzene	31	51	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
1,2-Dichlorobenzene	35	50	190 U	140 U	590 U	260 U	2,700 U	740 U	**33** J	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
1,3-Dichlorobenzene			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U

Table 26. Results for source tracing samples collected from S Myrtle St, S Garden St, and S Brighton St area (dry weight).

Sample ID	SQS/ LAET[b]	CSL/ 2LAET[c]	MH100B	RCB146	RCB147	RCB148	MH240	CB207	MH205	MH224	MH225	MH226	CB144	CB145	CB146	CB147	CB148
Lab Ref			NO90	NO90	NO90	NO90	PB20	PB20	OI27	OZ99	OZ99	OZ99	PA34	PA34	PA34	PA34	PA34
Sample Type			Inline	RCB	RCB	RCB	Inline	CB	Inline	Inline	Inline	Inline	CB	CB	Dirt	Dirt	Dirt
Outfall			S Myrtle St SD	S Garden St SD	S Myrtle St SD	S Myrtle St SD	S Garden St SD	S Garden St SD	S Brighton CSO/SD	S Brighton CSO/SD	S Brighton CSO/SD	S Brighton CSO/SD	8th Ave S (no SD)	CSS	CSS	CSS	CSS
Date			09/12/08	09/12/08	09/12/08	09/12/08	06/03/09	06/03/09	01/15/09	05/21/09	05/21/09	05/26/09	05/27/09	05/27/09	05/27/09	05/27/09	05/27/09
1,4-Dichlorobenzene	110	110	190 U	140 U	590 U	260 U	2,700 U	740 U	**29** J	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
1-Methylnaphthalene																	
2,2'-Oxybis(1-chloropropane)			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
2,4,5-Trichlorophenol			940 U	720 U	2,900 U	**780** J	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2,4,6-Trichlorophenol			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2,4-Dichlorophenol			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2,4-Dimethylphenol[a]	29	29	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
2,4-Dinitrophenol			1,900 U	1,400 U	5,900 U	2,600 U	27,000 U	7,400 U	390 U	580 U	1,700 U	1,900 U	2,600 U	1,200 U	580 U	1,100 U	570 U
2,4-Dinitrotoluene			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2,6-Dinitrotoluene			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2-Chloronaphthalene			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
2-Chlorophenol			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
2-Methylnaphthalene	670	670	190 U	**130** J	**3,600**	**1,900**	**13,000**	740 U	**20** J	58 U	170 U	190 U	**180** J	120 U	**58** J	110 U	**47** J
2-Methylphenol[a]	63	63	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
2-Nitroaniline			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
2-Nitrophenol			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
3,3'-Dichlorobenzidine			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
3-Nitroaniline			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
4,6-Dinitro-2-methylphenol			1,900 U	1,400 U	5,900 U	2,600 U	27,000 U	7,400 U	390 U	580 U	1,700 U	1,900 U	2,600 U	1,200 U	580 U	1,100 U	570 U
4-Bromophenyl-phenylether			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
4-Chloro-3-methylphenol			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
4-Chloroaniline			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
4-Chlorophenyl-phenylether			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
4-Methylphenol[a]	670	670	190 U	140 U	**18,000**	**2,600**	2,700 U	740 U	39 U	58 U	170 U	190 U	**2,300**	**92** J	58 U	110 U	57 U
4-Nitroaniline			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
4-Nitrophenol			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
Benzoic acid[a]	650	650	1,900 U	1,400 U	5,900 U	2,600 U	27,000 U	7,400 U	390 U	580 U	1,700 U	1,900 U	2,600 U	1,200 U	580 U	1,100 U	570 U
Benzyl alcohol[a]	57	73	190 U	140 U	590 U	260 U	2,700 U	740 U	**110**	58 U	170 U	190 U	**510**	120 U	58 U	110 U	57 U
bis(2-Chloroethoxy) methane			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Bis-(2-chloroethyl) ether			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Carbazole			190 U	**140**	590 U	**310**	**1,500** J	740 U	**85**	58 U	170 U	**110** J	260 U	120 U	58 U	110 U	57 U
Dibenzofuran	540	540	190 U	140 U	590 U	260 U	2,700 U	740 U	**36** J	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Hexachlorobenzene	22	70	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Hexachlorobutadiene	11	120	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Hexachlorocyclopentadiene			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
Hexachloroethane			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Isophorone			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
Nitrobenzene			190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	170 U	190 U	260 U	120 U	58 U	110 U	57 U
n-Nitroso-di-n-propylamine			940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
N-Nitrosodiphenylamine	28	40	190 U	140 U	590 U	260 U	2,700 U	740 U	39 U	58 U	660 Y	190 U	260 U	120 U	58 U	110 U	57 U
Pentachlorophenol[a]	360	690	940 U	720 U	2,900 U	1,300 U	13,000 U	3,700 U	200 U	290 U	830 U	970 U	1,300 U	620 U	290 U	530 U	280 U
Phenol[a]	420	1,200	190 U	180 U	850 U	890 U	2,700 U	740 U	**28** J	58 U	170 U	190 U	**210** J	120 U	58 U	110 U	57 U

a. Sediment management standards based on dry weight concentration.
b. Sediment quality standard/lowest apparent effects threshold
c. Cleanup screening level/second lowest apparent effects threshold
Bold = Compound detected in sample.

J Value is an estimate
U Target analyte not detected at the reported concentration
R Analytical result is rejected and cannot be used.
Y Analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. Y flag is equivalent to U flag with a raised reporting limit.

RCB = Right-of-way catch basin
CB = Onsite catch basin
CSS = Combined sewer system
Inline = Inline grab sample
Dirt = Street dirt sample

Exceeds SQS/LAET
Exceeds CSL/2LAET

Table 26. Results for source tracing samples collected from S Myrtle St, S Garden St, and S Brighton St area (dry weight).

Sample ID	SQS/ LAET[b]	CSL/ 2LAET[c]	CB149	RCB176	RCB177	RCB178	RCB179	RCB180	MH110	MH111	RD1	RD2	RCB189F	CB157-F	CB157S
Lab Ref			PA34	PZ96	PZ96	PZ96	PZ96	PZ96	PZ96	PZ96	QW05	QW05	QW05	QW05	QW05
Sample Type			Dirt	SD	SD	SD	SD	SD	Inline	Inline	Roof drain	Roof drain	SD	CB	CB
Outfall			8th Ave S (no SD)	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Myrtle St SD	S Brighton CSO/SD	S Brighton CSO/SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD
Date			05/27/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	05/11/10	05/11/10	05/11/10	05/11/10	05/11/10
Total solids (%)			99.7	83.1	56.6	52.3	43.1	66	65.00	74.70	49.2	29.6	65.9	67.3	46.2
TOC (%)			1.74	1.55	5.95	5.82	13.80	3.58	3.62	1.81	10.10	8.37	4.85	4.59	6.70
Metals (mg/kg)															
Arsenic	57	93	10 UJ	**6.8** J	**17** J	**18** J	**20** J	**6.5** J	**18** J	**960** J	20 U	40 U	20 U	40 U	30 U
Copper	390	390	**67.8** J	**291** J	**242** J	**327** J	**238** J	**1,110** J	**227** J	**998** J	**1,090**	**975**	**3,280**	**1,890**	**2,240**
Lead	450	530	**52** J	**230**	**290**	**275**	**284**	**192**	**84** J	**878** J	**1,410**	**1,700**	**904**	**1,260**	**1,380**
Mercury	0.41	0.59	**0.03** J	**0.42**	**0.45**	**0.39**	**0.36**	**0.33**	**0.13** J	**0.40** J	**0.92**	**2.56**	**0.66**	**0.8**	**1.55**
Zinc	410	960	**201** J	**985**	**1,100**	**1,340**	**1,400**	**1,500**	**455** J	**2,630** J	**5,370**	**8,310**	**3,890**	**4,940**	**5,880**
Total petroleum hydrocarbons (mg/kg)															
TPH-diesel			**84**	**1,300**	**1,000**	**1,200**	**4,700**	**500**	**400**	**620**	**210**	**190**	**1,800**	**840**	**970**
TPH-oil			**760**	**6,300**	**4,200**	**6,600**	**13,000**	**2,900**	**930**	**1,700**	**2,400**	**1,700**	**8,600**	**6,200**	**8,200**
LPAH (ug/kg DW)															
Acenaphthene	500	500	58 U	**250**	170 U	220 U	260 U	**200**	**130**	**700**	88 U	150 U	330 U	220 U	250 U
Acenaphthylene	1,300	1,300	58 U	230 U	170 U	220 U	260 U	100 U	**34** J	96 U	88 U	150 U	330 U	220 U	250 U
Anthracene	960	960	58 U	**300**	**180**	220 U	**210** J	**460**	**7,300**	**1,300**	88 U	**190**	**200** J	**130** J	**200** J
Fluorene	540	540	58 U	**320**	**120** J	220 U	**190** J	**360**	**140**	**610**	88 U	**86** J	**240** J	220 U	250 U
Naphthalene	2,100	2,100	58 U	**200** J	**110** J	220 U	**140** J	**120**	**41** J	96 U	**66** J	**130** J	**470**	**150** J	**210** J
Phenanthrene	1,500	1,500	58 U	**1,900**	**710**	**450**	**1,200**	**2,500**	**6,000**	**1,500**	**640**	**1,100**	**1,600**	**900**	**880**
Total LPAH	5,200	5,200	58 U	**2,970** J	**1,120** J	**450**	**1,740** J	**3,640**	**13,645**	**4,110**	**706** J	**1,506** J	**2,510** J	**1,180** J	**1,290** J
HPAH (ug/kg DW)															
Benzo(a)anthracene	1,300	1,600	58 U	**820**	**540**	**370**	**750**	**790**	**13,000**	**1,000**	**440**	**720**	**610** J	**550** J	**800** J
Benzo(a)pyrene	1,600	1,600	58 U	**720**	**650**	**470**	**800**	**720**	**8,400**	**1,000**	**670**	**1,000**	**520**	**440**	**580**
Benzo(b)fluoranthene	3,200	3,600	58 U	**770**	**850**	**660**	**1,100**	**790**	**8,700**	**1,100**	**700**	**1,500**	**610**	**590**	**890**
Benzo(g,h,i)perylene	670	720	58 U	**530**	**460**	**350**	**560**	**200**	**1,500**	**240**	**290**	**440**	**220** J	**180** J	**270**
Benzo(k)fluoranthene	3,200	3,600	58 U	**770**	**850**	**660**	**1,100**	**790**	**8,700**	**1,100**	**700**	**1,500**	**610**	**590**	**890**
Chrysene	1,400	2,800	**83**	**1,400**	**1,200**	**990**	**1,900**	**1,200**	**15,000**	**1,600**	**1,400**	**1,300**	**1,300**	**990**	**1,600**
Dibenz(a,h)anthracene	230	230	58 U	**210** J	**140** J	220 U	**200** J	**66** J	**1,100**	**75** J	**70** J	**120** J	330 U	**55** J	250 U
Fluoranthene	1,700	2,500	**29** J	**2,500**	**1,600**	**890**	**2,800**	**2,400**	**27,000**	**4,100**	**1,400**	**2,600**	**2,200**	**1,700**	**2,400**
Indeno(1,2,3-cd)pyrene	600	690	58 U	**350**	**400**	**220**	**380**	**180**	**1,800**	**250**	**170**	**360**	330 U	**130** J	**200** J
Pyrene	2,600	3,300	58 U	**2,300**	**1,600**	**1,100**	**3,100**	**1,600**	**25,000**	**3,000**	**910**	**1,400**	**1,700**	**1,100**	**1,500**
Total HPAH	12,000	17,000	**112** J	**10,370**	**8,290**	**5,710**	**12,690**	**8,736**	**110,200**	**13,465**	**6,750** J	**10,940** J	**7,770** J	**6,325** J	**9,130** J
Phthalates (ug/kg DW)															
Bis(2-ethylhexyl)phthalate	1,300	1,900	360 U	**23,000**	**21,000**	**15,000**	**28,000**	**6,800**	**7,500**	**4,700**	**11,000**	**12,000**	**84,000**	**33,000**	**41,000**
Butylbenzylphthalate	63	900	58 U	**2,100**	**1,400**	**2,100**	**1,800**	**1,500**	**250**	**150**	**2,200**	**4,600**	**6,200**	**5,000**	**4,300**
Diethylphthalate	200		58 U	**130** J	170 U	220 U	**140** J	**63** J	66 U	**50** J	88 U	150 U	330 U	220 U	250 U
Dimethylphthalate	71	160	**35** J	**780**	**420**	**1,400**	**510**	**360**	66 U	**49** J	**510**	**1,100**	**870**	**2,500**	**620**
Di-n-butylphthalate	1,400	1,400	58 U	**680**	**400**	**470**	**860**	**270**	**41** J	**140**	**670**	**2,200**	**3,200**	**1,500**	**1,200**
Di-n-octyl phthalate	6,200		**38** J	**3,400**	**860**	**740**	**2,600**	**770**	**190**	530	**920**	**970**	**3,500**	**2,200**	**3,400**
PCBs (ug/kg DW)															
Aroclor 1016			19 U	58 U	92 U	91 U	67 U	45 U	20 U	26 U	40 U	66 U	34 U	48 U	60 U
Aroclor 1221			19 U	58 U	92 U	91 U	67 U	45 U	20 U	26 U	40 U	66 U	34 U	48 U	60 U
Aroclor 1232			19 U	58 U	92 U	91 U	67 U	45 U	20 U	26 U	40 U	66 U	34 U	48 U	60 U
Aroclor 1242			19 U	58 U	92 U	91 U	67 U	45 U	20 U	26 U	40 U	66 U	34 U	48 U	60 U
Aroclor 1248			19 U	**980**	**1,300**	**700**	**660**	**300**	**39**	**52**	**570**	**1,800**	**1,300**	**1,300**	**1,400**
Aroclor 1254			**26**	**1,100**	**1,500**	**910**	**770**	**390**	**61** J	**87**	**1,100**	**2,200**	**1,400**	**1,400**	**2,200**
Aroclor 1260			**34**	**280**	**660**	**390** J	**310**	**150**	**43**	**51**	**260**	**570**	**250**	**260**	**420**
Total PCBs	130	1,000	**60**	**2,360**	**3,460**	**2,000**	**1,740**	**840**	**143** J	**190**	**1,930**	**4,570**	**1,650**	**2,960**	**4,020**
Other organic compounds (ug/kg DW)															
1,2,4-Trichlorobenzene	31	51	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
1,2-Dichlorobenzene	35	50	58 U	230 U	170 U	220 U	260 U	100 U	**56** J	**54** J	88 U	150 U	330 U	220 U	250 U
1,3-Dichlorobenzene			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U

Table 26. Results for source tracing samples collected from S Myrtle St, S Garden St, and S Brighton St area (dry weight).

Sample ID	SQS/ LAET[b]	CSL/ 2LAET[c]	CB149	RCB176	RCB177	RCB178	RCB179	RCB180	MH110	MH111	RD1	RD2	RCB189F	CB157-F	CB157S
Lab Ref			PA34	PZ96	PZ96	PZ96	PZ96	PZ96	PZ96	PZ96	QW05	QW05	QW05	QW05	QW05
Sample Type			Dirt	SD	SD	SD	SD	SD	Inline	Inline	Roof drain	Roof drain	SD	CB	CB
Outfall			8th Ave S (no SD)	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Myrtle St SD	S Brighton CSO/SD	S Brighton CSO/SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD
Date			05/27/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	12/03/09	05/11/10	05/11/10	05/11/10	05/11/10	05/11/10
1,4-Dichlorobenzene	110	110	58 U	230 U	170 U	220 U	260 U	100 U	**260**	**110**	88 U	150 U	330 U	220 U	250 U
1-Methylnaphthalene				**150** J	170 U	220 U	**140** J	**100** J	**35** J	**98**					
2,2'-Oxybis(1-chloropropane)			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
2,4,5-Trichlorophenol			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2,4,6-Trichlorophenol			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2,4-Dichlorophenol			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2,4-Dimethylphenol[a]	29	29	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
2,4-Dinitrophenol			580 U	2,300 U	1,700 U	2,200 U	2,600 U	1,000 U	660 UJ	960 U	880 U	1,500 U	3,300 U	2,200 U	2,500 U
2,4-Dinitrotoluene			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2,6-Dinitrotoluene			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2-Chloronaphthalene			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
2-Chlorophenol			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
2-Methylnaphthalene	670	670	58 U	**280**	**140** J	**120** J	**210** J	**130**	**46** J	**60** J	**64 J**	**170**	**980**	**150 J**	**250**
2-Methylphenol[a]	63	63	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
2-Nitroaniline			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
2-Nitrophenol			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	88 U	150 U	330 U	220 U	250 U
3,3'-Dichlorobenzidine			290 R	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
3-Nitroaniline			290 R	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
4,6-Dinitro-2-methylphenol			580 R	2,300 U	1,700 U	2,200 U	2,600 U	1,000 U	660 U	960 U	880 U	1,500 U	3,300 U	2,200 U	2,500 U
4-Bromophenyl-phenylether			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
4-Chloro-3-methylphenol			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
4-Chloroaniline			290 R	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
4-Chlorophenyl-phenylether			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
4-Methylphenol[a]	670	670	58 U	**460**	**290**	**15,000**	**630**	**160**	66 U	96 U	88 U	150 U	330 U	**330**	**7,800**
4-Nitroaniline			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
4-Nitrophenol			290 R	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
Benzoic acid[a]	650	650	580 R	2,300 U	1,700 U	**3,000**	**640** J	1,000 U	660 U	960 U	**590** J	1,500 U	3,300 U	**870** J	**1,100** J
Benzyl alcohol[a]	57	73	58 U	230 U	**690**	220 U	260 U	100 U	66 U	96 U	88 U	150 U	**440**	220 U	250 U
bis(2-Chloroethoxy) methane			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Bis-(2-chloroethyl) ether			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Carbazole			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	**120**	**200**	**190** J	220 U	250 U
Dibenzofuran	540	540	58 U	**180** J	170 U	220 U	260 U	**190**	**62** J	**250**	88 U	150 U	330 U	220 U	250 U
Hexachlorobenzene	22	70	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Hexachlorobutadiene	11	120	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Hexachlorocyclopentadiene			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 UJ	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
Hexachloroethane			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Isophorone			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Nitrobenzene			58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
n-Nitroso-di-n-propylamine			290 U	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
N-Nitrosodiphenylamine	28	40	58 U	230 U	170 U	220 U	260 U	100 U	66 U	96 U	88 U	150 U	330 U	220 U	250 U
Pentachlorophenol[a]	360	690	290 R	1,100 U	870 U	1,100 U	1,300 U	530 U	330 U	480 U	440 U	730 U	1,600 U	1,100 U	1,200 U
Phenol[a]	420	1,200	58 U	230 U	170 U	**180** J	260 U	**55** J	66 U	96 U	240	320	330 U	420	**1,300**

a. Sediment management standards based on dry weight concentration.
b. Sediment quality standard/lowest apparent effects threshold
c. Cleanup screening level/second lowest apparent effects threshold
Bold = Compound detected in sample.

J Value is an estimate
U Target analyte not detected at the reported concentration
R Analytical result is rejected and cannot be used.
Y Analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. Y flag is equivalent to U flag with a raised reporting limit.

RCB = Right-of-way catch basin
CB = Onsite catch basin
CSS = Combined sewer system
Inline = Inline grab sample
Dirt = Street dirt sample

Exceeds SQS/LAET
Exceeds CSL/2LAET

Figures

Figure 1: Summary of Corrective Actions by Type and Location (March 2003 - September 2010)

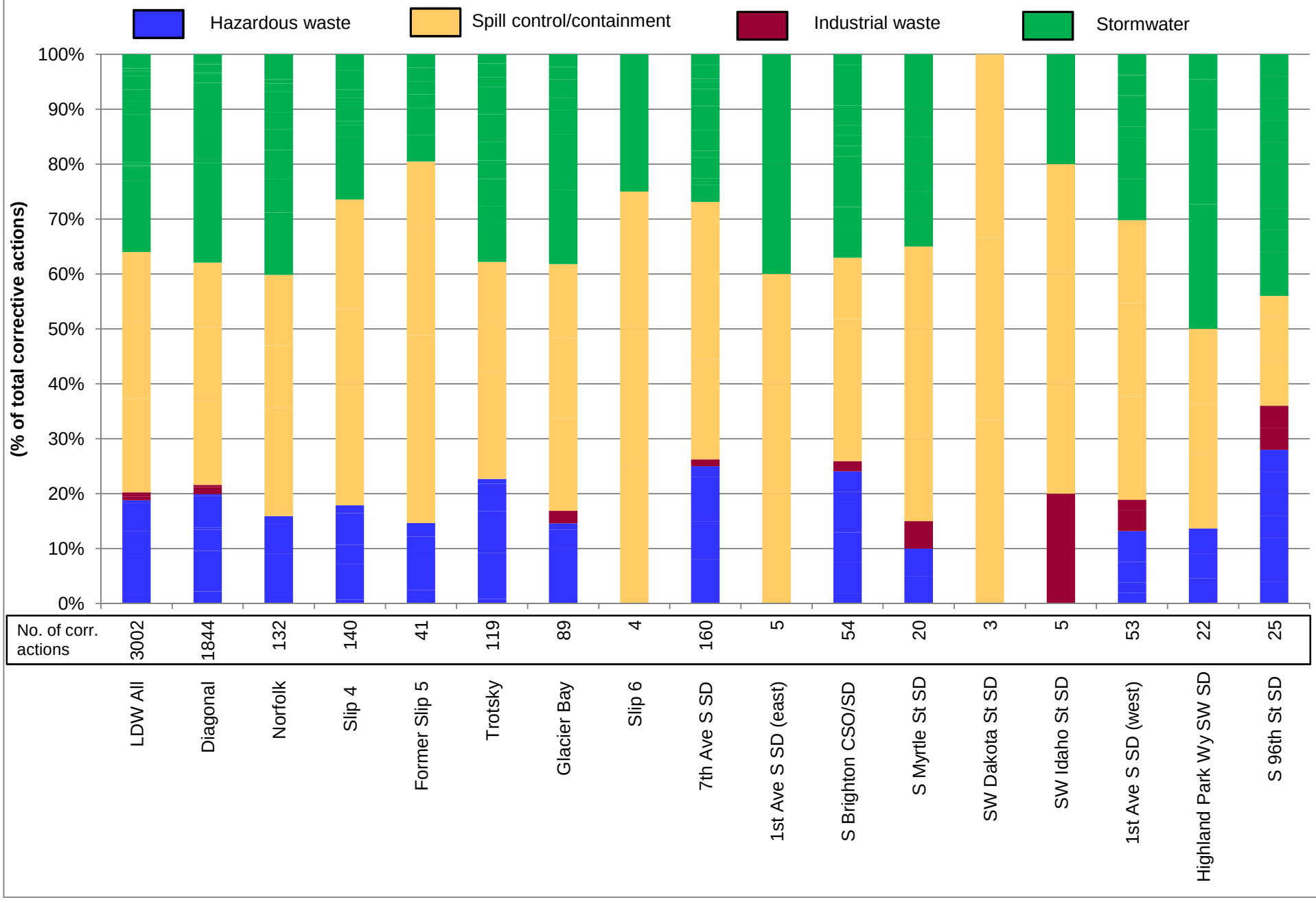


Figure 2: Sediment traps.

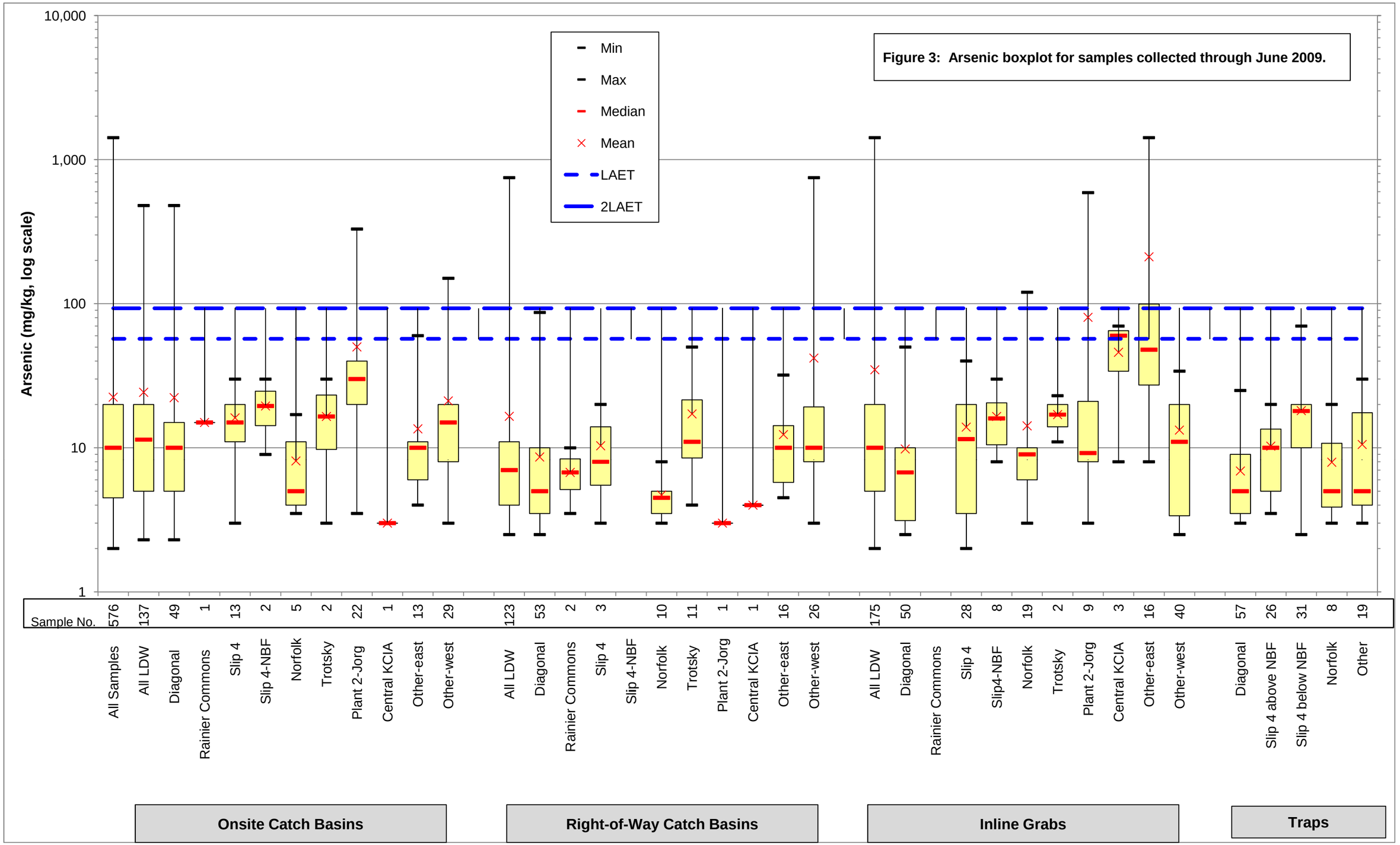


Figure 3: Arsenic boxplot for samples collected through June 2009.
Min
Max
Median
Mean
LAET
2LAET
Arsenic (mg/kg, log scale)
10,000
1,000
100
10
1
Sample No.
576 137 49 1 13 2 5 2 22 1 13 29 123 53 2 3 10 11 1 1 16 26 175 50 28 8 19 2 9 3 16 40 57 26 31 8 19
All Samples
All LDW
Diagonal
Rainier Commons
Slip 4
Slip 4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
All LDW
Diagonal
Rainier Commons
Slip 4
Slip 4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
All LDW
Diagonal
Rainier Commons
Slip 4
Slip4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
Diagonal
Slip 4 above NBF
Slip 4 below NBF
Norfolk
Other
Onsite Catch Basins
Right-of-Way Catch Basins
Inline Grabs
Traps

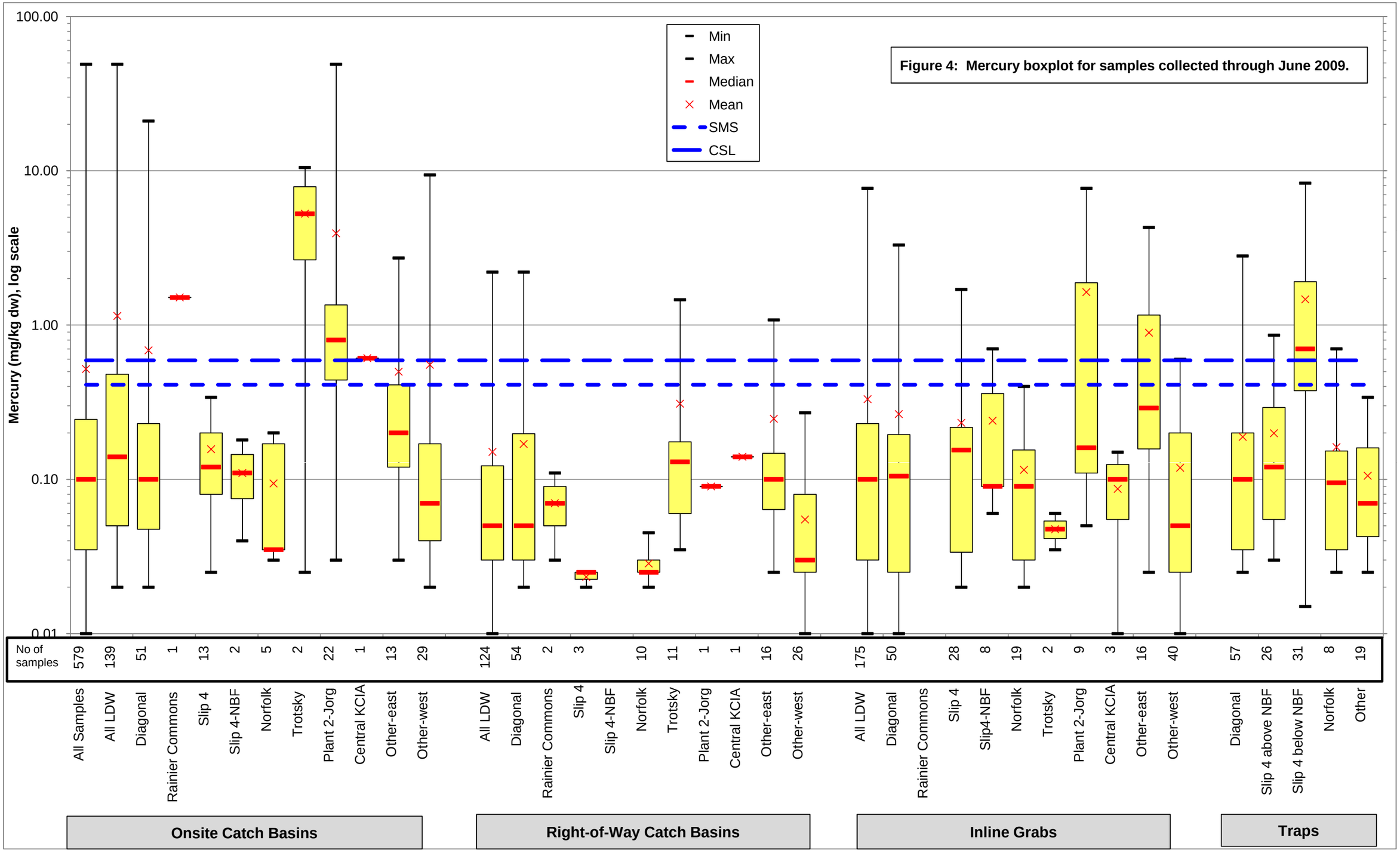

Min
Max
Median
Mean
SMS
CSL
Figure 4: Mercury boxplot for samples collected through June 2009.
Mercury (mg/kg dw), log scale
100.00
10.00
1.00
0.10
0.01
No of samples
579 139 51 1 13 2 5 2 22 1 13 29 124 54 2 3 10 11 1 1 16 26 175 50 28 8 19 2 9 3 16 40 57 26 31 8 19
All Samples
All LDW
Diagonal
Rainier Commons
Slip 4
Slip 4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
All LDW
Diagonal
Rainier Commons
Slip 4
Slip 4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
All LDW
Diagonal
Rainier Commons
Slip 4
Slip4-NBF
Norfolk
Trotsky
Plant 2-Jorg
Central KCIA
Other-east
Other-west
Diagonal
Slip 4 above NBF
Slip 4 below NBF
Norfolk
Other
Onsite Catch Basins
Right-of-Way Catch Basins
Inline Grabs
Traps

Figure 5: PCBs boxplot for samples collected through June 2009).

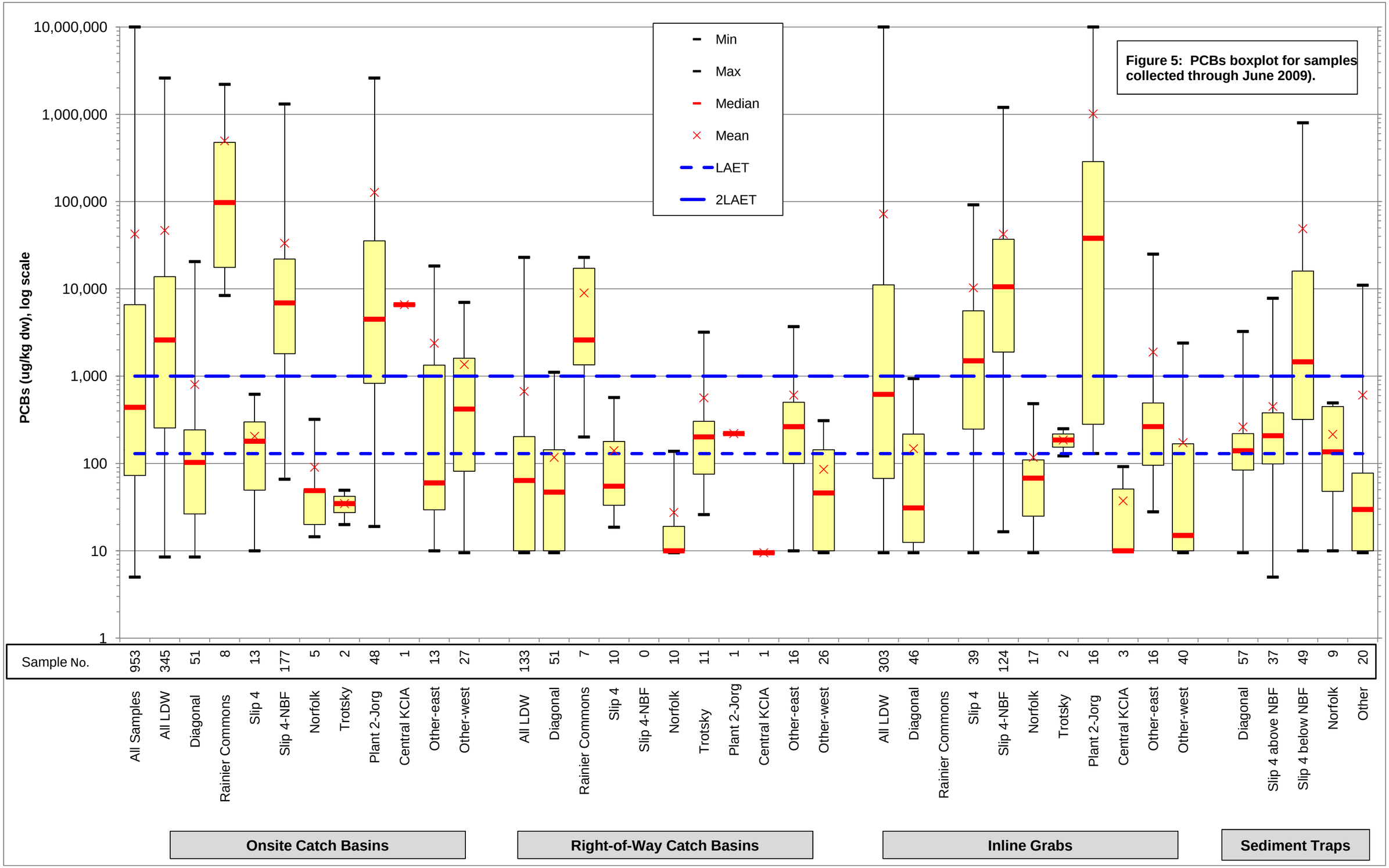


Figure 6; HPAH boxplot for samples collected through June 2009.

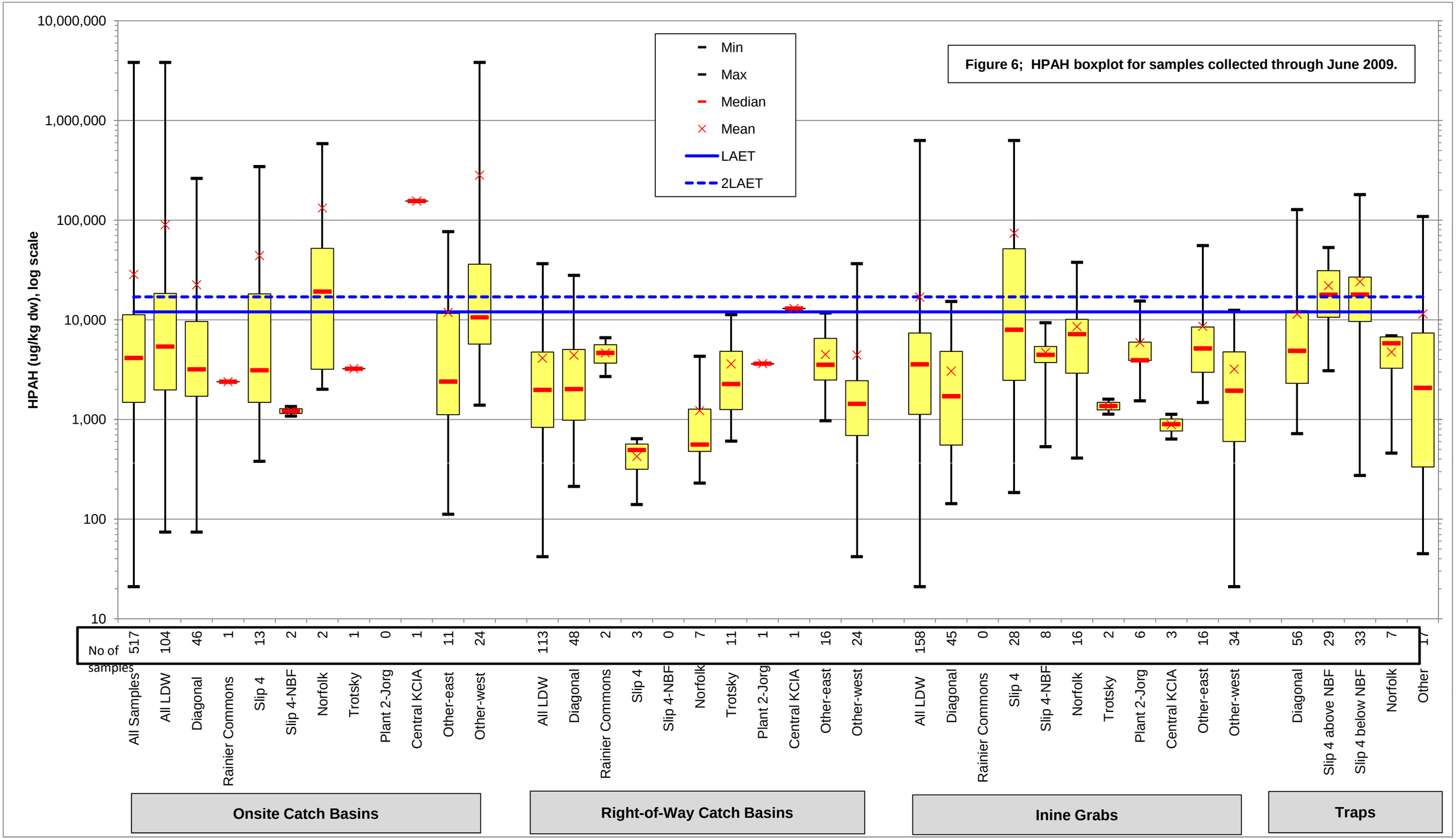


Figure 7: BEHP boxplot for samples collected through June 2009.

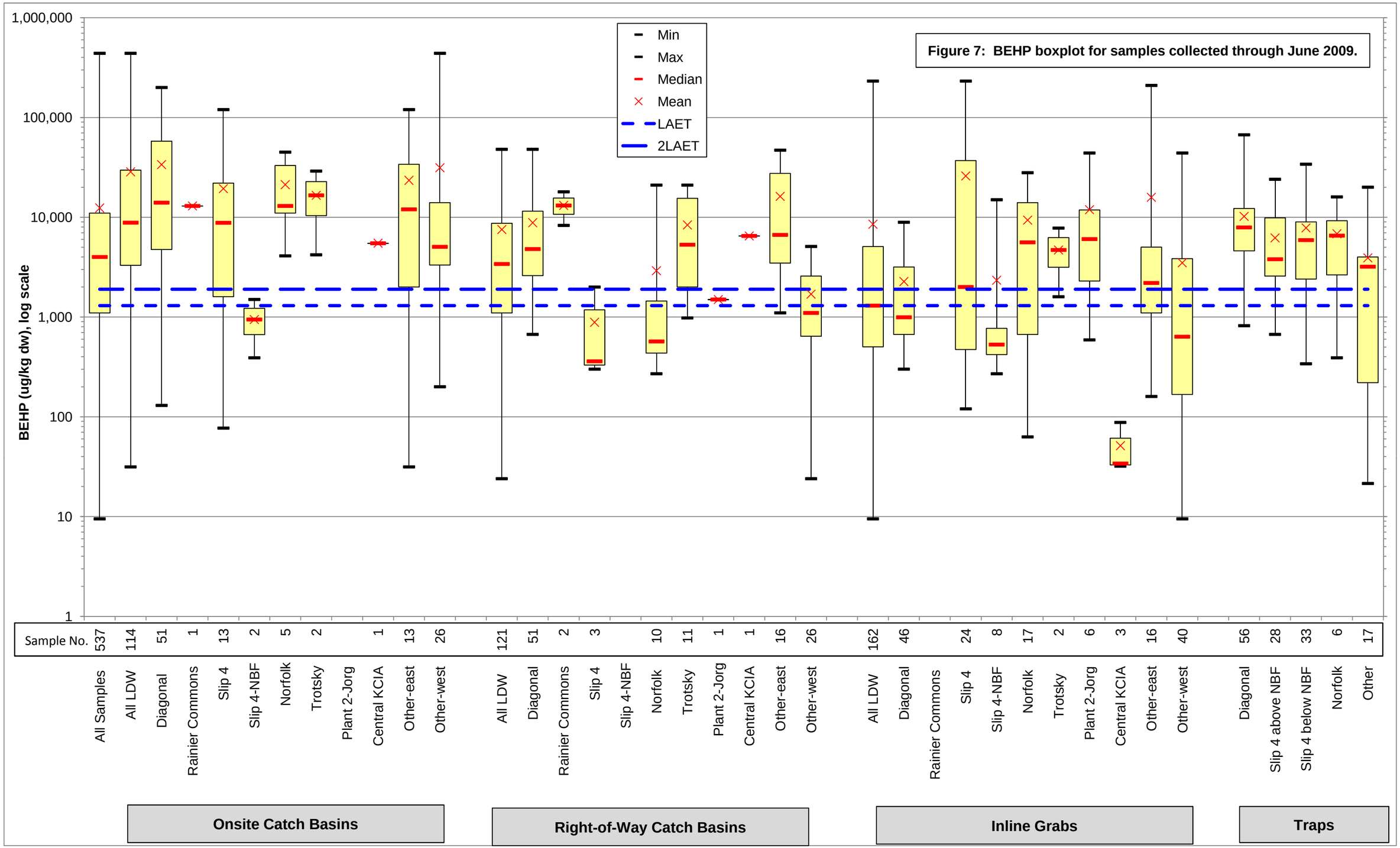
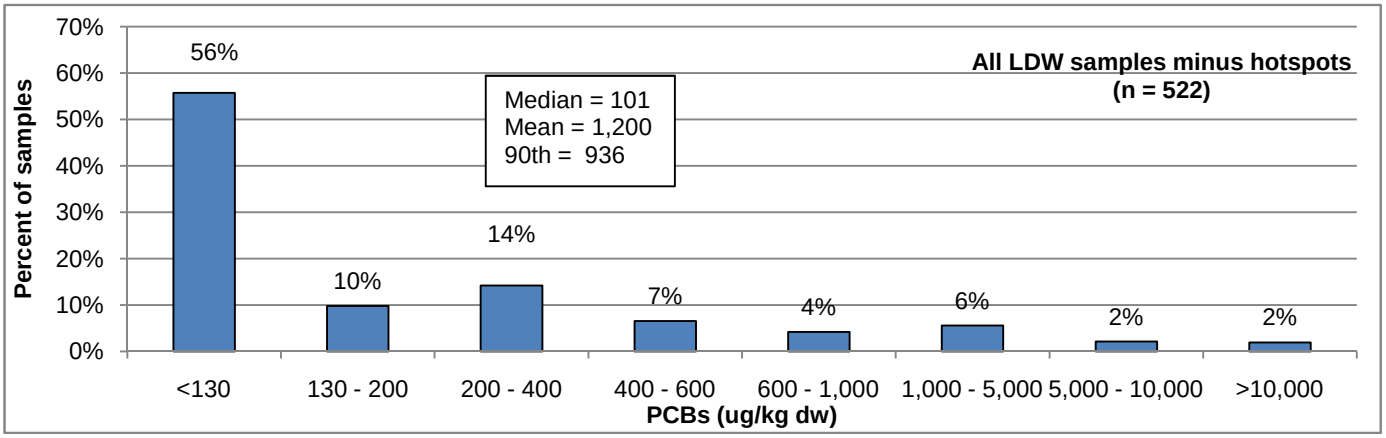
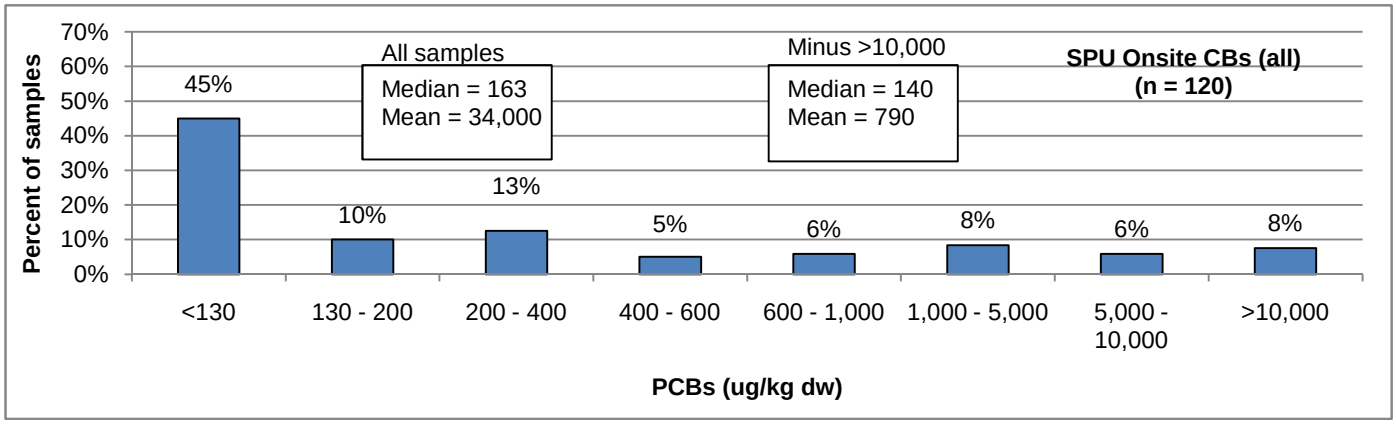
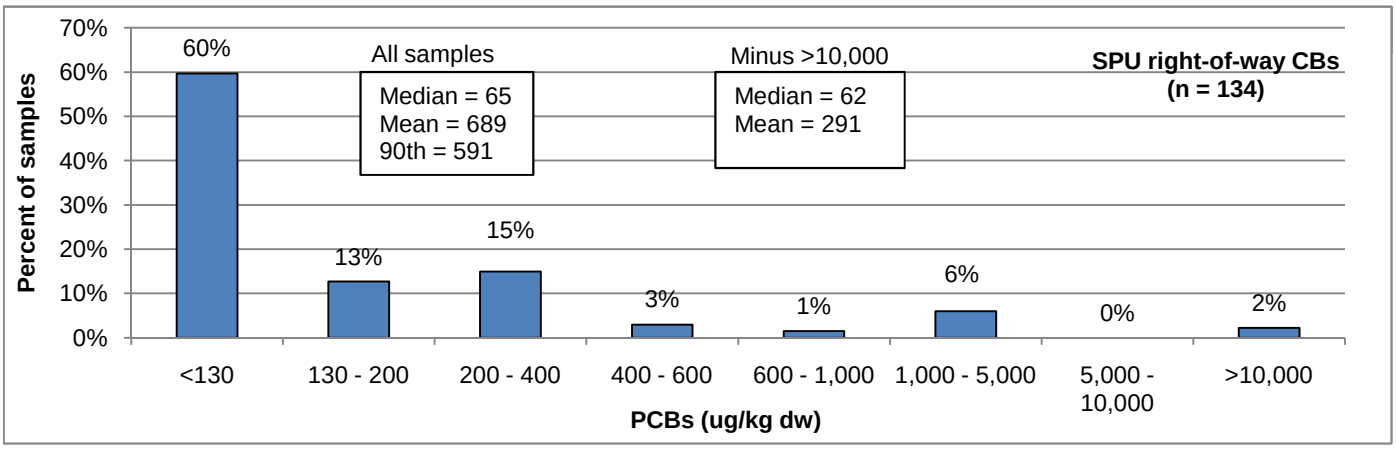
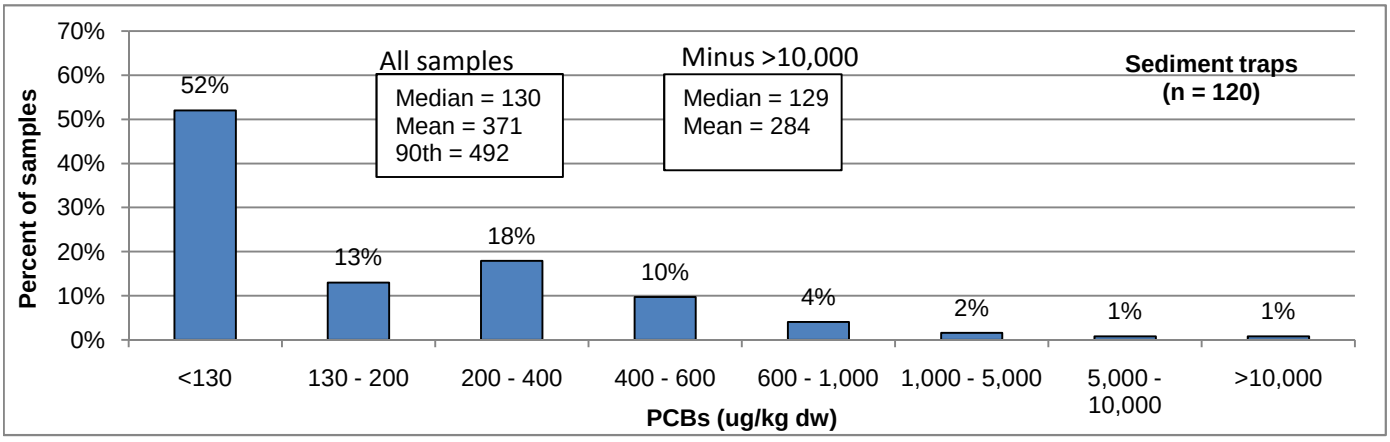


Figure 8: Comparison of PCB concentrations by sample type.









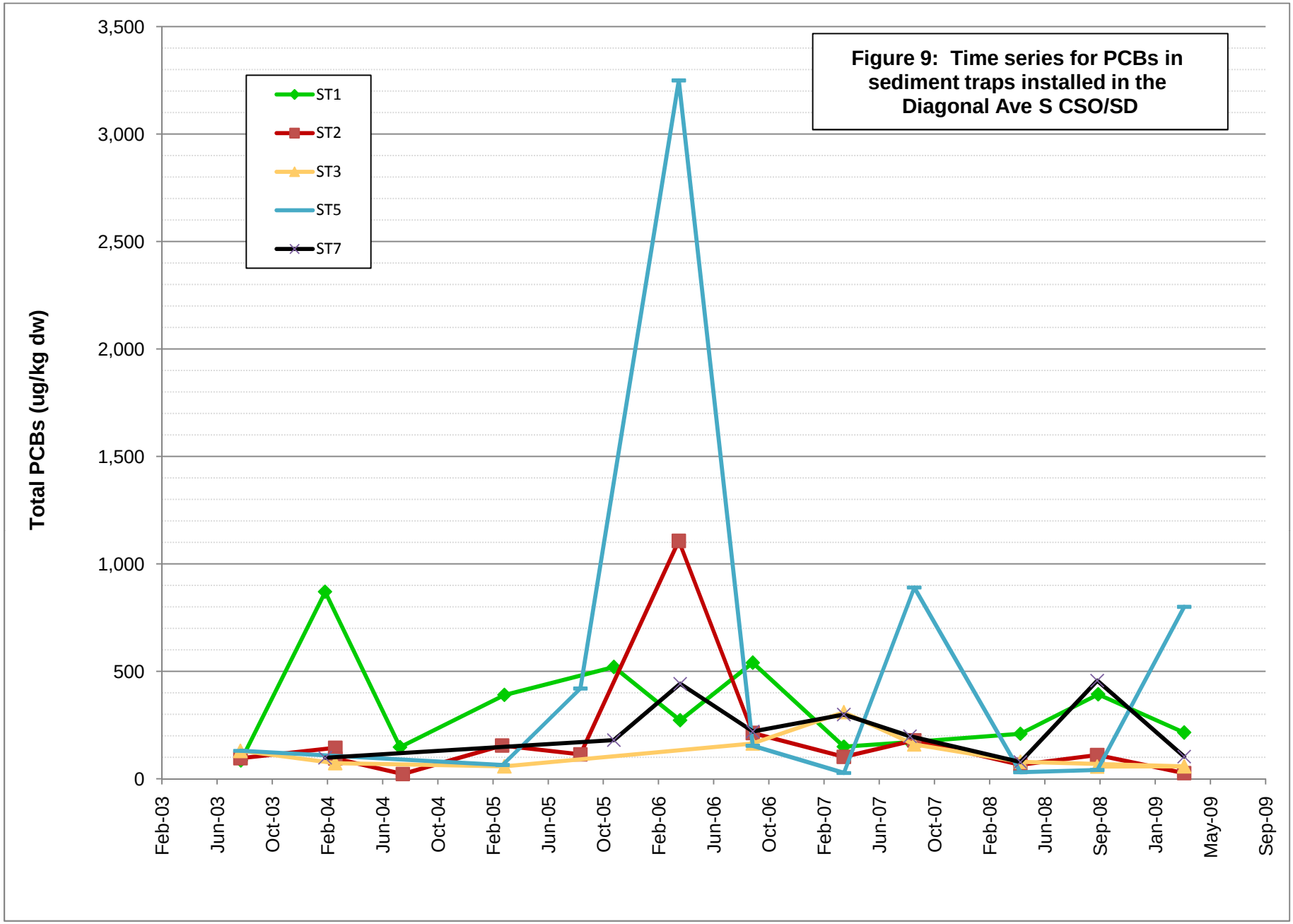


Figure 9: Time series for PCBs in sediment traps installed in the Diagonal Ave S CSO/SD
Total PCBs (ug/kg dw)
3,500
3,000
2,500
2,000
1,500
1,000
500
0
ST1
ST2
ST3
ST5
ST7
Feb-03
Jun-03
Oct-03
Feb-04
Jun-04
Oct-04
Feb-05
Jun-05
Oct-05
Feb-06
Jun-06
Oct-06
Feb-07
Jun-07
Oct-07
Feb-08
Jun-08
Sep-08
Jan-09
May-09
Sep-09

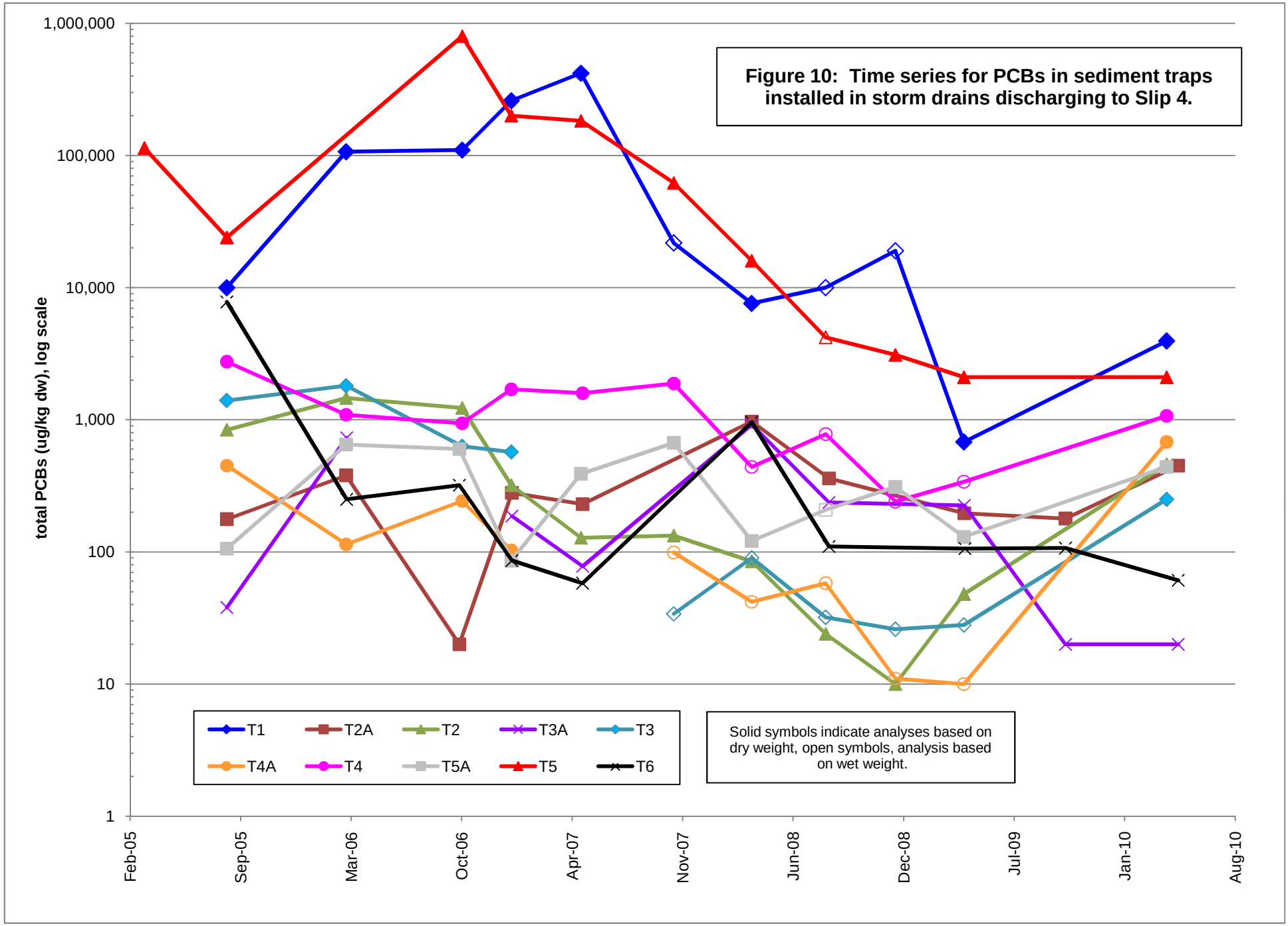


Figure 10: Time series for PCBs in sediment traps installed in storm drains discharging to Slip 4.
total PCBs (ug/kg dw), log scale
1,000,000
100,000
10,000
1,000
100
10
1
Feb-05
Sep-05
Mar-06
Oct-06
Apr-07
Nov-07
Jun-08
Dec-08
Jul-09
Jan-10
Aug-10
T1
T2A
T2
T3A
T3
T4A
T4
T5A
T5
T6
Solid symbols indicate analyses based on dry weight, open symbols, analysis based on wet weight.

Data Tables

DT-1: Sample locations.

Station ID	Sample No	Date	Lab Report	X_COORD	Y_COORD	Location	SIC Code	SIC Descr	Type	Sewer	EAA/SC area	Outfall	Referral	Notes
CB1	CB1-082103-1	08/21/03	FT97	1,271,437.25	212,710.97	3414 4th Av S	3089	Plastic Products	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Perry	hard plastic shards from cutting in CB
CB2	CB2-082103-1	08/21/03	FT97	1,272,462.25	209,087.51	4429 Airport Wy S	7699	Repair Shops and Related Services	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Girard	illicit connection from pressure washing pad to CB
CB3	CB3-090503	09/05/03	FV26	1,267,393.10	209,302.55	1S Idaho St	4491	Marine Cargo Handling	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Woods	Mostly gravel need to return
CB4	CB4-090803	09/08/03	FV26	1,275,704.63	220,475.78	828 Poplar Pl S	1731	Electrical Work	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	in primary driveway also received runoff from Ralph's concrete
CB5	CB5-091003	09/10/03	FV26	1,275,671.28	220,583.63	828 Poplar Pl S	1771	Concrete Work	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	Collected from drain pipe leaving site
CB7	CB7-101503	10/15/03	FY40	1,277,666.74	217,000.66	2006 Rainier Ave S	5531	Auto Supply Stores	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	CB completely full, concrete very pitted in vicinity - pH test of water in CB was o.k.
CB8	CB8-110403	11/04/03	GA19	1,269,018.93	206,170.47	5200 E Marginal Wy	4212	Local Trucking	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	aluminum cleaning on site - and oil storage
CB9	CB9-012204	01/22/04	GG14	1,273,047.99	211,484.87	820 S Charlestown	7539	Automotive Repair Shops	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	CB in parking lot of small one-man autorepair shop
CB10	CB10-012204	01/22/04	GG14	1,275,980.79	220,425.01	852 Rainier Ave S	5541	Gasoline Service Station with Convenience Store	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	CB slightly uphill from fueling pad - not in major traffic pattern
CB11	CB11-012304	01/23/04	GG14	1,270,498.39	207,050.59	5005 3rd Ave S	1711	Plumbing, Heating, and Air-Conditioning	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Bassett	CB adjacent to large metal and garbage dumpsters - mfg site
CB12	CB12-012304	01/23/04	GG14	1,272,344.18	211,711.68	3701 7th Ave S	5087	Service Establishment Equipment and Supplies	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	CB completely full, on edge of road and parking lot -
CB13	CB13-012304	01/23/04	GG14	1,273,061.80	218,858.16	1410 Airport Way S	3519	Internal Combustion Engines	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Bassett	parking lot for business also a pay parking lot for Safeco Field/Sehawks stadium - very large (4'x4')
CB15	CB15-020904	02/09/04	GH92, GK99	1,279,173.67	214,174.88	2901 Rainier Ave S	5411	Grocery Stores	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Peacock	parking lot
CB16	CB16-020904	02/09/04	GH92, GK99	1,281,645.51	207,487.07	4801 Rainier Ave S	5999	Retail Stores	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Agasid	parking lot
CB17	CB17-020904	02/09/04	GH92, GK99	1,281,645.51	207,487.07	4801 Rainier Ave S	5999	Retail Stores	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Agasid	Field Dup
CB18	CB18-021204	02/12/04	GH92, GK99	1,285,534.34	206,170.93	5041 Wilson Ave S	5411	Grocery Stores	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Waddell	Floor wax and cleaner dumped regularly
CB19	CB19-021204	02/12/04	GH92, GK99	1,282,304.98	206,315.81	5022 Rainier Ave S	7538	General Automotive Repair Shops	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	very large sump with cont from previous occupant.
CB20	CB20-021204	02/12/04	GH92, GK99	1,277,322.07	207,483.79	4580 Beacon Ave S	7219	Laundry and Garment Services	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	Clothes washer is illegally connected to CB - then to combined
CB21	CB21-030204	03/02/04	GJ76	1,279,363.65	213,165.57	3151 Rainier Ave S	7542	Carwashes	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	drain inside car wash bay
CB22	CB22-030204	03/02/04	GJ76	1,281,947.55	206,539.10	3711 S Hudson St	3053	Gaskets, Packing, and Sealing Devices	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	plastics/aluminum deburring discharge
CB23	CB23-031504	03/15/04	GK68	1,277,290.99	207,676.13	4800 Beacon Ave S	5541	Gasoline Service Station with Convenience Store	CB	SD	Lake Wash	S Charleston St SD	Stewart	SD receiving runoff from fuel island
CB24	CB24-031504	03/15/04	GK68	1,281,328.05	207,868.46	3515 S Alaska St	8641	Civic, Social, and Fraternal Organizations	CB	SD	Lake Wash	S Charleston St SD	Agasid	low traffic parking lot
CB25	CB25-031504	03/15/04	GK68	1,281,180.95	211,076.43	3820 Rainier Ave S	5411	Grocery Stores	CB	SD	Lake Wash	S Charleston St SD	Agasid	high traffic parking space
CB26	CB26-031504	03/15/04	GK68	1,277,935.33	227,250.77	2220 E Union St	5541	Gasoline Service Station with Convenience Store	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Haberman	CB near grease barrels
CB27a	CB27-031504	03/15/04	GK68	1,277,909.91	227,171.34	2220 E Union St	5541	Gasoline Service Station with Convenience Store	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Haberman	CB near fueling island
CB27b	CB27-032604	03/26/04	GL98	1,273,859.23	226,800.86	950 E Madison St	5812	Restaurant	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Rivera	CB at northest corner of parking lot
CB28	CB28-032604	03/26/04	GL98	1,274,136.55	226,912.82	1018 E Seneca St	2759	Commercial Printing Services	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Rivera	CB at the corner of Madison and 11th Ave
CB29	CB29-040704	04/07/04	GN05	1,274,658.31	225,441.86	700 12th Ave	5541	Gasoline Service Station with Convenience Store	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Girard	gets runoff from pl and auto car wash - soap in CB
CB30	CB30-043004	04/30/04	GP10	1,273,490.23	226,223.88	910 Boylston Ave	8049	Offices and Clinics of Health Practitioners	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Rivera	underground parking garage - low traffic
CB31	CB31-050604	05/06/04	GP60	1,272,997.63	211,365.58	3901 9th Ave S	3325	Steel Foundaries	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	very muddy messy junk storage lot.
CB32	CB32-052404	05/24/04	GQ68	1,280,871.37	211,041.55	3820 Rainier Ave S	5812	Restaurant	CB	SD	Lake Wash	S Charleston St SD	Uzunow	fast food drive-thru
CB33	CB33-052404	05/24/04	GQ68	1,272,020.98	211,187.78	3820 6 Ave S	4173	Terminal and Service Facilities for Motor Vehicle Passenger	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	State emission testing facility
CB34	CB34-052404	05/24/04	GQ68	1,280,705.23	184,685.69	12100 E Marginal Wy	4173	Terminal and Service Facilities for Motor Vehicle Passenger	CB	SD		LDW	Uzunow	Metro Transit Base-brake testing skid pad
CB35	CB35-052404	05/24/04	GQ68	1,281,282.30	184,192.13	12100 E Marginal Wy	4173	Terminal and Service Facilities for Motor Vehicle Passenger	CB	SD		LDW	Uzunow	Metro Transit Base
CB36	CB36-052404	05/24/04	GQ68	1,281,586.71	183,733.43	12100 E Marginal Wy	4173	Terminal and Service Facilities for Motor Vehicle Passenger	CB	SD		LDW	Uzunow	Metro Transit Base parking lot for active buses
CB37	CB37-062204	06/22/04	GU05	1,273,245.86	199,202.03	7400 8th Ave S	4449	Water Transportation of Freight (NEC)	CB	Direct	RM 2.8 east	Private SD	Treat	Last CB (NE portion of site) on the northern line of catch basins (4 lines of CBs going to Slip 4)
CB38	CB38-062504	06/25/04	GU05	1,279,142.74	214,142.22	2822 Rainier Ave S	5182	Restaurant	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	red flakes (paint chips?) throughout
CB39	CB39-062504	06/25/04	GU05	1,279,142.74	214,142.22	2822 Rainier Ave S	5182	Restaurant	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Uzunow	Field dup
CB40	CB40-080404	08/04/04	GX63	1,277,942.78	198,236.54	7585 Perimeter Rd S	4581	Aircraft and airport services	CB	SD	Rm 3.7 to 3.9 east	KCIA SD#2/PS78 EOF	Treat	CB on east side of building. All others had been cleaned. This one under trailer.
CB41a	CB41-081904	08/19/04	GZ01	1,275,267.30	195,375.07	8661 Dallas Ave S	4953	Oil recycling - out of business	CB	SD	RM 3.4 to 3.8 west	CSS	Treat	Oil/water separator adjacent to Dallas Ave S
CB42	CB42-081904	08/19/04	GZ01	1,275,200.32	195,302.17	8661 Dallas Ave S	4953	Oil recycling - out of business	CB	SD	RM 3.4 to 3.8 west	CSS	Treat	Area drain at southwest corner of site
CB41b	CB41-091004	09/10/04	HB46	1,278,446.20	193,138.38	SW Corner of KC Airport	4173	Terminal and Service Facilities for Motor Vehicle Passenger	CB	SD	RM 3.9 to 4.3 east	KCIA SD#1	Treat	Drain on west side of property near entrance gate
CB44	CB44-120804	12/08/04	HL78	1,273,208.52	200,259.22	1015 S Myrtle St	2893	Ink mixing company	CB	SD	RM 2.8 east	Georgetown flume	Treat	CB draining to Georgetown Flume-CB north of 1001 S Myrtle St
CB45	CB45-122204	12/22/04	HN38	1,273,895.50	202,141.70	6518 Ellis Ave S	7538	General Automotive Repair Shops	CB	SD	RM 2.8 east	I-5 SD	Treat	near baghouse for dust collection system at Show Quality Metal Finishing
CB46	CB46-122204	12/22/04	HN38	1,273,699.20	202,154.90	6518 Ellis Ave S	7538	General Automotive Repair Shops	CB	SD	RM 2.8 east	KCIA SD#3/PS44 EOF	Treat	by fueling area - heavy gas/diesel odor and sheen
CB48	CB48-020205	02/02/05	HR76	1,274,110.79	201,511.97	6605 13th Ave S	8412	Museum/used to be a power plant	CB	SD	RM 2.8 east	Georgetown flume	Uzunow	CB located west of building
CB49	CB49-020405	02/04/05	HR76	1,265,111.91	210,317.50	4209 W Marginal Wy	7999	Parks maintenance facility	CB	SD	RM 0.1 to 1.0 west	SW Idaho St SD	Uzunow	CB just north of driveway near tree
CB50	CB50-020405	02/04/05	HR76	1,264,871.90	209,891.10	4209 W Marginal Wy	7999	Parks maintenance facility	CB	SD	RM 0.1 to 1.0 west	SW Idaho St SD	Uzunow	2nd CB north of driveway
CB51	CB51-020405	02/04/05	HR76	1,265,203.68	209,817.72	4209 W Marginal Wy	7999	Parks maintenance facility	CB	SD	RM 0.1 to 1.0 west	SW Idaho St SD	Uzunow	CB at south side of building
CB52	CB52-020405	02/04/05	HR76	1,265,162.52	210,035.37	4209 W Marginal Wy	7999	Parks maintenance facility	CB	SD	RM 0.1 to 1.0 west	SW Idaho St SD	Uzunow	Northeast corner of parks building
CB58	CB58-030305	03/03/05	HU45	1,272,233.25	214,025.55	2930 6th Ave S	5531	Auto Supply Stores	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Sifford	CB at NE corner of building
CB53B	CB53-031605	03/16/05	HV82	1,272,899.77	215,205.78	8603 Dallas Ave S	4493	Boat storage yard	CB	CS	RM 3.4 to 3.8 west	CSS	Treat	CB on west side of building
CB72	CB72-101805	10/18/05	IQ73,IQ74	1,283,141.34	189,482.03	10023 ML King Jr Wy S	5211	Lumber and Other Building Materials Dealers	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Stewart'	CB located at NE corner of building
CB73	CB73-101905	10/19/05	IQ73,IQ74	1,273,334.00	213,708.15	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	Trench drain in breezeway (sampled at end with least paint chips)
CB74	CB74-101905	10/19/05	IQ73,IQ74	1,273,241.80	213,143.84	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	Composite from 6 CBs in tank farm area, white paint chips, sewer odor
CB75	CB75-101905	10/19/05	IQ73,IQ74	1,273,224.96	213,551.03	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	CB on west side of orange bldg
CB76	CB76-101905	10/19/05	IQ73,IQ74	1,273,261.56	213,639.20	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Treat	CB on west side of red bldg
CB77	CB77-110805	11/08/05	IS72	1,280,466.76	190,228.57	3301 S Norfolk St	5141	Groceries, General Line	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Tuomisto	CB in middle of yard
CB78	CB78-110805	11/08/05	IS72	1,282,440.23	189,816.89	9883 40th Ave S	2045	Prepared Flower Mixes and Doughs	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Uzunow	North side of loading area
CB79	CB79-091105	11/09/05	IS72	1,273,485.21	198,886.67	7343 E Marginal Wy S	4953	Refuse Systems	CB	SD	RM 2.8 east	Private SD	Uzunow	Oil/water separator (direct discharge to Slip 4)
CB80	CB80-091105	11/09/05	IS72	1,273,943.90	198,944.90	7343 E Marginal Wy S	4953	Refuse Systems	CB	CS	RM 2.8 east	CSS	Uzunow	CB on E side yard--to combined sewer on E Marginal Wy S
S1	S1-110905	11/09/05	IS72	1,273,623.88	199,181.56	7343 E Marginal Wy S	4953	Refuse Systems	CB	SD	RM 2.8 east	Private SD	Uzunow	Swale by containers
CB81	CB81-112205	11/22/05	IU18	1,272,462.25	209,087.51	4429 Airport WY S	7699	Repair Shops and Related Services	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Girard	**Resample after source control/CB cleaning**
CB82	CB82-112305	11/23/05	IU18	1,283,018.90	191,193.85	9685 ML King Jr Wy S	6515	Operators of Mobile Home Sites	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Uzunow	SW CB at the site
CB83	CB83-120505	12/05/05	IV03	1,277,666.74	217,000.66	2006 Rainier Ave S	5531	Auto Supply Stores	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Girard	**Resample after source control/CB cleaning**
CB85	CB85-120505	12/05/05	IV03	1,273,061.80	218,858.16	1410 Airport Way S	3519	Internal Combustion Engines	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Peacock	**Resample after source control/CB cleaning**
CB84	CB84-120605	12/06/05	IV03	1,282,932.36	192,781.80	9685 ML King Jr Wy S	2952	Asphalt Felts and Coating	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Uzunow	CB at NE corner of building
CB86	CB86-011806	01/18/06	IY80	1,273,513.14	198,863.51	7343 E Marginal Wy S	4953	Refuse Systems	CB	SD	RM 2.8 east	Private SD	Uzunow	CB connected to oil/water separator discharging to Slip 4
CB87	CB87-021006	02/10/06	JB06	1,275,459.06	202,654.84	1615 S Graham St	1771	Concrete Work	CB	SD	RM 2.8 east	I-5 SD	Tuomisto	CB at d/s end ditch at S end Ultrablock concrete block facility
CB88	CB88-021006	02/10/06	JB06	1,275,544.48	202,500.67	6500 Ursula Pl S	4931	Electric and Other Services Combined	CB	SD	RM 2.8 east	I-5 SD	Uzunow	CB at d/s end ditch that parallels RR tracks--just d/s of PSE
CB89	CB89-021006	02/10/06	JB06	1,275,544.48	202,500.67	6500 Ursula Pl S	4931	Electric and Other Services Combined	CB	SD	RM 2.8 east	I-5 SD	Uzunow	Field Dup
CB90	CB90-050506	05/05/06	JI31	1,267,202.46	205,386.58	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	CB21 on Chemithon map
CB91	CB91-053106	05/31/06	JK52	1,268,280.28	202,138.61	6700 W Marginal Wy SW	4412	Deep Sea Foreign Transportation of Freight	CB	SD	RM 1.6 to 2.1 west	Highland Park Wy SW SD	Stewart	CB adjacent to sweepings disposal area
CB92a	CB92-071006	07/10/06	JO98	1,275,704.63	220,475.78	828 Poplar Pl S	1731	Electrical Work	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	**Resample**
CB92	CB92-071006D	07/10/06	JO98	1,275,704.63	220,475.78	829 Poplar Pl S	1731	Electrical Work	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	Field Dup
CB93	CB93-101206	10/12/06	KA77	1,267,220.75	205,346.86	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Chemithon CB #22 at NE corner of yard
CB94	CB94-101206	10/12/06	KA77	1,267,231.09	205,259.20	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Chemithon CB #24 on E side yard (may be valve box?)
CB95	CB95-101206	10/12/06	KA77	1,267,235.94	205,123.14	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Pump wet well at SE corner yard
CH-N	CH-N-111406	11/14/06	KF45	1,267,134.42	205,403.46	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Dirt along N fence line
CH-E	CH-E-111406	11/14/06	KF45	1,267,237.73	205,372.02	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Dirt along E fence line
CB96	CB96-020607	02/06/07	KN66	1,267,144.72	205,186.37	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Chemithon CB #4
CB97	CB97-020607	02/06/07	KN66	1,267,170.07	205,378.77	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Large paint chunk removed from Chemithon CB #20
CB98	CB98-020607	02/06/07	KN66	1,267,178.51	205,348.74	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Chemithon CB #19
CB99	CB99-020607	02/06/07	KN66	1,267,028.42	205,401.88	5430 W Marginal Wy SW	5084	Industrial machinery and equipment	CB	CS	RM 1.0 to 1.3 west	Private SD	Stewart	Chemithon CB #11
CB100	CB100-021507	02/15/07	KO62	1,285,455.81	200,171.07	7000 Rainier Ave S	7538	General Automotive Repair Shops	CB	SD	Lake Washington	S Grattan St SD	Autry	CB at east side of the building

DT-1: Sample locations.

Station ID	Sample No	Date	Lab Report	X_COORD	Y_COORD	Location	SIC Code	SIC Descr	Type	Sewer	EAA/SC area	Outfall	Referral	Notes
CB101	CB101-022107	02/21/07	KP15	1,267,165.08	205,904.34	5400 W Marginal Wy SW	3295	Minerals and Earths, Ground or Otherwise Treated	CB	SD	RM 1.3 to 1.6 west	Private SD	Stewart	CB on northern portion of site to the west of Outfall 4
CB102	CB102-022107	02/21/07	KP15	1,267,191.45	205,418.96	5400 W Marginal Wy SW	3295	Minerals and Earths, Ground or Otherwise Treated	CB	SD	RM 1.3 to 1.6 west	Private SD	Stewart	Surface composite at SW portion of site-along northern property line of Chemithon
CB103	CB103-022107	02/21/07	KP15	1,267,244.37	205,258.52	5400 W Marginal Wy SW	3295	Minerals and Earths, Ground or Otherwise Treated	CB	SD	RM 1.3 to 1.6 west	Private SD	Stewart	CB at SW corner of site in the bone yard
CB104	CB104-022107	02/21/07	KP15	1,267,251.45	205,238.95	5400 W Marginal Wy SW	3295	Minerals and Earths, Ground or Otherwise Treated	CB	SD	RM 1.3 to 1.6 west	Private SD	Stewart	Surface composite at SW portion of site-along eastern propery line of Chemithon
CB105	CB105-081307	08/13/07	LL00	1,277,380.18	217,372.80	1821 Rainier Ave S	7538	General Automotive Repair Shops	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	CB at SE corner of property (only onsite CB)
CB92B	CB92-082307	08/23/07	LM69	1,275,704.63	220,475.78	828 Poplar Pl S	1731	Electrical Work	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Schmoyer	**Resample**
CB106	CB106-101807	10/18/07	LU21	1,275,579.85	220,389.54	1421 S Dean St	7336	Commercial Art and Graphic Design	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB at loading dock
CB107S	CB107-101807sump	10/18/07	LU21	1,278,751.12	216,804.55	2501 S Plum St	3728	Aircraft Parts and Auxiliary Equipment NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	CB near baghouse--from CB sump
CB107F	CB107-101807filter	10/18/07	LU21	1,278,751.12	216,804.55	2501 S Plum St	3728	Aircraft Parts and Auxiliary Equipment NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Stewart	CB near baghouse--from CB insert
CB108	CB108-101807	10/18/07	LU21	1,270,436.09	199,406.88	7265 2nd Ave S	7539	Automotive Repair Shops, NEC	CB	SD	RM 2.1 to 2.2 west	2nd Ave S SD	Stewart	CB at 2nd Ave S and S Fontanelle St
CB108D	CB108-101807D	10/18/07	LU21	1,270,436.09	199,406.88	7265 2nd Ave S	7539	Automotive Repair Shops, NEC	CB	SD	RM 2.1 to 2.2 west	2nd Ave S SD	Stewart	Dupe of CB 108
CB110	CB110-120507	12/05/07	MA85	1,272,963.60	214,532.20	2700 Airport Way S	7389	Businesss Services NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	West parking lot, near wash pad
CB111	CB111-120507	12/05/07	MA85	1,273,402.30	214,964.00	2700 Airport Way S	7389	Businesss Services NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB near bone yard/hazardous waste storage area
CB112	CB112-120507	12/05/07	MA85	1,273,376.04	214,494.67	2700 Airport Way S	7389	Businesss Services NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB at loading dock by SE corner of main building
CB113	CB113-120507	12/05/07	MA85	1,273,310.30	197,019.90	1017 S Elmgrove St	5088	Transportation equipment and supplies	CB	CS	RM 2.2 to 3.4 west	CSS	Bassett	Onsite detention tank at N side of building
TUL-CB1	TUL-CB1-010908	01/09/08	ME86	1,273,294.40	213,910.70	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Schmoyer	Northern CB (east of the Tully's Coffe Shop)
TUL-CB2	TUL-CB2-010908	01/09/08	ME86	1,273,280.21	213,851.16	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Schmoyer	2nd CB from the north in parking area
TUL-CB3	TUL-CB3-010908	01/09/08	ME86	1,273,246.68	213,737.72	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Schmoyer	3rd CB from the north in parking area
TUL-CB4	TUL-CB4-010908	01/09/08	ME86	1,273,222.92	213,636.57	3100 Airport Way S	9999	Brewery converting to housing, under renovation	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Schmoyer	4th CB from the north in parking area
CB114	CB114-032508	03/25/08	MP02	1,272,662.32	193,170.35	9220 8th Ave S	3479	Coating, engraving, and allied services (NEC)	CB	SD	RM 4.2 to 4.8 west	Hamm Cr	Wright	MH after detention system
CB116	CB116-050108	05/01/08	MU58	1,270,474.32	198,521.82	7620 2nd Ave S	5093	Scrap and waste materials	CB	SD	RM 2.1 to 2.2 west	2nd Ave S SD	Robinson	Northern CB in storage yard
CB142	CB142-052109	05/21/09	PA02	1,267,158.67	205,348.91	5430 W Marginal Way SW	5084	Industrial machinery and equipment	CB	SD	RM 1.3 to 1.6 west	Private SD	Ecology IAA	Collected from Chemithon CB#18
CB143	CB143-052609	05/26/09	PA19	1,273,650.46	199,184.31	7343 E Marginal Way S	4953	Refuse Systems	CB	SD	RM 2.8 east	Private SD	Ecology IAA	Composite of 2 CBs
CB144	CB144-052709	05/27/09	PA34	1,272,661.57	200,016.50	7201 E Marginal Wy S	5093	Scrap and waste materials	CB	CS	RM 2.8 east	CSS	Ecology IAA	CB at driveway entrance (plumbed to SS on 8th Ave S)
CB145	CB145-052709	05/27/09	PA34	1,272,655.67	200,013.72	7201 E Marginal Wy S	5093	Scrap and waste materials	Dirt	SD	RM 2.8 east	CSS	Ecology IAA	Street dirt at driveway entrance on 8th Ave S (trace PCBs in road)
CB146	CB146-052709	05/27/09	PA34	1,273,086.57	199,853.50	7201 E Marginal Wy S	5093	Scrap and waste materials	Dirt	CS	RM 2.8 east	CSS	Ecology IAA	Dirt pile at southeast corner of property
CB147	CB147-052709	05/27/09	PA34	1,272,899.07	199,935.95	7201 E Marginal Wy S	5093	Scrap and waste materials	Dirt	CS	RM 2.8 east	CSS	Ecology IAA	Surface dirt from yard area on east side of building
CB148	CB148-052709	05/27/09	PA34	1,272,954.28	199,833.86	7201 E Marginal Wy S	5093	Scrap and waste materials	Dirt	CS	RM 2.8 east	CSS	Ecology IAA	Dirt pile on south-central side of property
CB149	CB149-052709	05/27/09	PA34	1,272,550.12	199,860.95	7135 8th Ave S	7359	Equipment Rental and Leasing, NEC	Dirt	SD	RM 2.8 east	8th Ave S (no SD)	Ecology IAA	Street dirt at driveway entrance on 8th Ave S
CB150	CB150-052809	05/28/09	PA69	1,268,718.48	199,132.07	7500 Detroit Ave SW	6514	Operators of Dwellings Other Than Apartment Buildings	CB	SD	RM 3.4 to 3.8 west	1st Ave S (west side)	Ecology IAA	Sampled CB near NE corner of building
CB203	CB203-052109	05/21/09	OZ99	1,267,671.30	208,266.30	CB on Port property (ConGlobal)	4491	Marine Cargo Handling	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S SD	Ecology IAA	Access with permission from ConGlobal 206-767-6000
CB204	CB204-052109	05/21/09	OZ99	1,267,404.90	208,507.00	Surface dirt composite	4491	Marine Cargo Handling	Dirt	SD	RM 0.1 to 0.9 east	Diagonal Ave S SD	Ecology IAA	Access with permission from ConGlobal 206-767-6000
CB206	CB206-060309	06/03/09	PB20	1,272,667.29	197,852.95	7814 8th Ave S	3399	Primary metals, NEC	CB	SD	RM 2.2 to 3.4 west	Direct discharge	Ecology IAA	Bob W request
CB207	CB207-060309	06/03/09	PB20	1,271,665.51	199,903.78	601 S Myrtle St	5093	Scrap and waste materials	CB	SD	RM 2.3 to 2.8 east	S Garden St SD	Ecology IAA	Bob W request
RCB224	RCB224-060309	06/03/09	PB20	1,269,753.70	207,846.70	80 S Hudson St	4953	Waste refuse systems	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Ecology IAA	Bob W request
CB117	CB117-051408	05/14/08	MW66	1,272,167.10	212,867.54	3300 6th Ave S	3317	Steel pipe and tubes	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB on western portion of 3300 6th Ave S
CB119	CB119-052308	05/23/08	MX98	1,272,820.94	211,009.55	3900 Airport Way S	3325	Steel Foundaries	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB on western portion of 3900 Airport Way S
CB120	CB120-052308	05/23/08	MX98	1,273,090.82	211,083.43	3901 9th Ave S	3325	Steel Foundaries	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	Sample of the pile at the NE corner of 3901 9th Ave S
CB121	CB121-052308	05/23/08	MX98	1,271,815.48	210,402.96	620 S Industrial Way	8711	Engineering Services	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Jeffers	CB at NW corner of the building
CB123	CB123-071808	07/18/08	NG32	1,273,178.60	198,954.28	7400 8th Ave S	4499	Water Transportation Services (NEC)	CB	SD	RM 2.8 east	Private SD	Wisdom	Composite of 2 CBs, NE & SE downstream CBs
CB127	CB127-101008	10/10/08	NT73	1,272,257.15	207,325.74	655 S Edmunds St	4212	Local Trucking without storage	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB at west side of property along train tracks by grain unloading area
CB128	CB128-101008	10/10/08	NT73	1,272,127.99	207,356.21	656 S Edmunds St	4213	Local Trucking without storage	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB at the east side of the loading docks (opened sided building)
CB129	CB129-101008	10/10/08	NT73	1,272,860.02	193,498.34	9131 10th Avenue S	3634	Electical housewares and fans	CB	SD	RM 4.2 to 4.8 west	Hamm Cr	Wisdom	CB at south side of the building
CB130	CB130-102308	10/23/08	NW26	1,272,650.12	207,984.11	4716 Airport Way S	7359	Equipment Rental and Leasing, NEC	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	From sump at SE corner of building
CB136	CB136-032709	03/27/09	OS71	1,277,264.92	217,077.46	2104 S Plum St	7532	Top, Body, and Upholstery Repair Shops and Paint Shops	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Autry	CB at SE corner of the building
CB137	CB137-032709	03/27/09	OS71	1,271,264.87	197,433.98	525 S Chicago St	5031	Lumber, Plywood, Millwork, and Wood Panels	CB	SD	RM 2.1 to 2.2 west	7th Ave S SD	Robinson	Surface sample from the ROW at the SE corner of the "sout yard" of Marine Lumber Service
CB138	CB138-040909	04/09/09	OU95	1,267,093.99	209,342.20	1S Idaho St	4491	Marine Cargo Handling	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB at west side of site near the river bank
CB139	CB139-040909	04/09/09	OU95	1,267,255.60	209,361.20	1S Idaho St	4492	Marine Cargo Handling	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB at western portion of site near the paint shop
CB140	CB140-040909	04/09/09	OU95	1,268,346.50	208,755.30	1S Idaho St	4493	Marine Cargo Handling	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Wisdom	CB at southeast portion of site in chassis repair area
CB154	CB154-111809	11/18/09	PY32	1,271,962.93	197,815.58	7800 7th Ave S	3442	Metal Doors, Sash, Frames, Molding, and Trim	CB	SD	RM 2.1 to 2.2 west	7th Ave S SD	Robinson	Sampled CB at north side of building about the middle of the building
CB155	CB155-111809	11/19/09	PY32	1,271,962.93	197,815.58	7800 7th Ave S	3442	Metal Doors, Sash, Frames, Molding, and Trim	CB	SD	RM 2.1 to 2.2 west	7th Ave S SD	Robinson	Duplicate of CB154
CB40	CB40-120309	12/03/09	PZ97	1,277,942.78	198,236.54	7585 Perimeter Rd S	4581	Aircraft and airport services	CB	SD	RM 3.7 to 3.9 east	KCIA SD#2/PS78 EOF	Robinson	CB on east side of building. All others had been cleaned. This one under trailer.
CB41c	CB41-041610	04/16/10	QT06	1,264,961.40	210,550.90	4101 W Marginal Wy SW, #A-3	7539	Automotive Repair Shops, NEC	CB	SD	RM0 to 1. west	SW Dakota St SD	Jeffers	Collected grab sample from center CB in parking lot
CB156	CB156-042310	04/23/10	QU11	1,269,751.15	197,798.32	130 S Kenyon St	4151	School Buses	CB	SD	RM 3.4 to 3.8 west	1st Ave S SD (west side)	Schmoyer	CB directly west of MH112 on the southwestern portion of the site
CB157F	CB157F-051110	05/11/10	QW05	1,271,807.16	200,278.86	601 S Myrtle St	5093	Scrap and waste materials	CB	SD	RM 2.3 to 2.8 east	S Garden St SD	EPA	CB in employee parking lot (from filter sock)
CB157S	CB157S-051110	05/11/10	QW05	1,271,807.16	200,278.86	601 S Myrtle St	5093	Scrap and waste materials	CB	SD	RM 2.3 to 2.8 east	S Garden St SD	EPA	CB in employee parking lot (from sump)
RD1	RD1-051110	05/11/10	QW05	1,271,911.33	200,257.34	601 S Myrtle St	5093	Scrap and waste materials	CB	SD	RM 2.3 to 2.8 east	S Garden St SD	EPA	Office building roof (3 pt composite)
RD2	RD2-051110	05/11/10	QW05	1,271,321.66	200,278.32	601 S Myrtle St	5093	Scrap and waste materials	CB	SD	RM 2.3 to 2.8 east	S Garden St SD	EPA	Maintenance building roof gutter
CB158	CB158-051410	05/14/10	QW47	1,269,179.14	197,662.12	7901 1st Ave S	5033	Roofing, Siding, and Insulation Materials	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Jeffers	CB at northwest corner of building
CB106	CB106-052710	05/27/10	QY29	1,275,579.85	220,389.54	1420 S Dean St	7336	Commercial Art and Graphic Design	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB116	CB116-060710	06/07/10	QZ56	1,270,474.32	198,521.82	7620 2nd Ave S	5093	Scrap and waste materials	CB	SD	RM 2.1 to 2.2 west	2nd Ave S SD	Robinson	Resample location
CB10	CB10-070910	07/09/10	RD69/RE85	1,275,980.79	220,425.01	852 Rainier Ave S	5541	Gasoline Service Station with Convenience Store	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB159	CB159-070910	07/09/10	RD69	1,281,462.52	210,885.45	3820 Rainier Ave S	5411	Grocery Stores	CB	SD	Lake Washington	Lake Washington	Jeffers	Collected at loading dock area at the east side of the building by the trash compactor
CB160	CB160-070910	07/09/10	RD69	1,281,018.89	210,978.43	3820 Rainier Ave S	5411	Grocery Stores	CB	SD	Lake Washington	Lake Washington	Jeffers	CB is northwest prortion of the main parking lot
CB19	CB19-070910	07/09/10	RD69	1,282,304.98	206,315.81	5022 Rainier Ave S	7538	General Automotive Repair Shops	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB161	CB161-072710	07/27/10	RF96	1,271,905.86	212,503.32	450 S Spokane St	9999	Nonclassifiable Establishments	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB has been connected to the combined sewer as part of this inspection process
CB117	CB117-072810	07/28/10	RG11/RH95	1,272,167.10	212,867.54	3300 6th Ave S	3317	Steel pipe and tubes	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB121	CB121-081210	08/12/10	RI55	1,271,815.48	210,402.96	620 S Industrial Wy	3999	Manufacturing Industries, NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Jeffers	Resample location
CB27A	CB27A-081210	08/12/10	RI55	1,277,938.30	227,253.08	2220 E Union St	5541	Gasoline Service Station with Convenience Store	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Jeffers	Resample location
CB27B	CB27B-081210	08/12/10	RI55	1,273,859.23	226,800.86	950 E Madison St	5812	Restaurant	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB163	CB163-081810	08/18/10	RJ82	1,271,521.96	201,024.93	6851 E Marginal Way S	5171	Petroleum Bulk Stations & Terminals	CB	SD	RM 2.0 to 2.3 east	S Brighton St CSO/SD	Robinson	CB on west side of the building in the main distribution area
CB13	CB13-082310	08/23/10	RK00	1,273,061.80	218,858.16	1410 Airport Way S	3519	Internal Combustion Engines	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location
CB83	CB83-083010	08/30/10	RI13/RN40	1,277,666.74	217,000.66	2006 Rainier Ave S	5531	Auto Supply Stores	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Jeffers	Resample location
CB84	CB84-090210	09/02/10	RI57	1,282,932.36	192,781.80	9243 MLK Jr Way S	2952	Asphalt Felts and Coating	CB	SD	RM 4.9 east	Norfolk CSO/SD/PS#17 EOF	Jeffers	Resample location
CB30	CB30-091610	09/16/10	RN27/RP58	1,273,490.23	226,223.88	910 Boylston Ave	8049	Offices and Clinics of Health Practitioners	CB	CS	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	Resample location-underground parking garage - low traffic
CB112	CB112-100410	10/04/10	RP65	1,273,402.30	214,964.00	2700 Airport Way S	7389	Businesss Services NEC	CB	SD	RM 0.1 to 0.9 east	Diagonal Ave S CSO/SD	Robinson	CB at loading dock by SE corner of main building
PortCB6	PortCB6-080910	10/04/10	RH70	1,275,364.60	195,253.64	8700 Dallas Ave S		Vacant	CB	SD	RM 3.4 to 3.8 west	Port SD	Schmoyer	CB at SW corner of yellow warehouse on south end of T117

DT2: Diagonal sediment traps (dry weight).

Station ID			ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST2	ST2A	ST2B	ST2
Lab Ref			FT96	GI77	GY11, GY49	HV92	IS42	JF27	JV42	KS67	LL01	MR44	NR10	OT18	FT96	GK59	GK59	GY11, GY49
Round			1	2	3	4	5	6	7	8	9	10	11	12	1	2	2	RCB
Date removed	**SQS**	**CSL**	08/19/03	02/18/04	07/30/04	03/14/05	11/07/05	03/31/06	09/05/06	03/22/07	08/13/07	04/09/08	09/25/08	03/31/09	08/18/03	03/11/04	03/11/04	08/05/04
Total solids (%)			18.0	39.0	26.1	54.1	26.6	53.2	37.2	65.4	66.0	52.6	37.2	44	33.7	36.6	66.2	26.5
Total organic carbon (%)			17	9.6	7.81	8.17	12.3	10.03	6.97	5.84	15.5	8.53	9.83	8.64	4.50	4.60	3.50	7.46
Metals (mg/kg)																		
Arsenic	57	93	10 U	10 U	20 UJ	**10**	**12**	**12**	**20**	7 U	**10**	**10**	**20**	**10** J	7 U	50 U	8 U	10 UJ
Copper	390	390	**298**	**120**	**215** J	**144**	**181**	**116**	**196**	**89.8**	**160**	**160**	**218**	**201** J	**89.9**	**146**	**34.1**	**136** J
Lead	450	530	**244**	**121**	**160** J	**126**	**164**	**97**	**154**	**72**	**124**	**137**	**142**	**117** J	**76**	**210**	**39**	**41** J
Mercury	0.41	0.59	**0.3**	**0.2**	**0.2** J	**0.27**	**0.24**	**0.17**	**0.3**	**0.11**	**0.28**	**0.23**	**0.40**	**0.3** J	0.06 U	0.4 U	0.07 U	0.1 UJ
Zinc	410	960	**1,050**	**445**	**638** J	**435**	**682**	**400**	**683**	**282**	**620**	**647**	**845**	**669** J	**282**	**735**	**162**	**184** J
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**620**	NA	**840**	**94**	**1,500**	**1,300**	**1,100**	**560**	**1,300**	**790**	**1,300**	**1,900**	**88**	**370**	87 U	**32**
TPH-oil	2,000[b]		**1,100**	NA	**3,200**	**380**	**5,700**	**5,400**	**5,300**	**2,100**	**7,000**	**4,100**	**5,100**	**6,700**	**230**	**2,400**	**570**	**120**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	1,800 U	**55** J	200 U	61 U	**190**	**220**	450 U	92 UJ	150 U	**19** J	97 U	370 U	79 U	220 U	89 U	68 U
Acenaphthylene	1,300	1,300	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Anthracene	960	960	1,800 U	**75** J	**220**	61 U	**230**	**500**	**450**	**87** J	150 U	**69**	**190**	**210** J	**290**	220 U	89 U	**180**
Fluorene	540	540	1,800 U	**77** J	200 U	61 U	**150**	**340**	450 U	92 UJ	150 U	**30**	97 U	370 U	**96**	220 U	89 U	68 U
Naphthalene	2,100	2,100	1,800 U	98 U	200 U	61 U	82 J	**160** J	450 U	92 UJ	150 U	**37**	**360**	**940**	79 U	220 U	89 U	68 U
Phenanthrene	1,500	1,500	**3,200**	590	**1,700**	**90**	**1,400**	**2,300**	**1,000**	**390** J	**440**	**280**	**570**	**1,000**	**1,600**	**1,000**	**410**	**1,300**
Total LPAH	5,200	5,200	**3,200**	**797** J	**1,920**	**90**	**2,052** J	**3,520** J	**1,450**	**477** J	**440**	**435** J	**1,120**	**2,150** J	**1,986**	**1,000**	**410**	**1,480**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	1,800 U	**340**	**830**	**59** J	**1,000**	**930**	**590**	**250** J	**270**	**320**	**200**	**670**	**1,100**	**850**	**290**	**730**
Benzo(a)pyrene	1,600	1,600	**1,900**	**370**	**1,000**	**60** J	**1,200**	**880**	**790**	**230** J	**310**	**250**	**470**	**750**	**1,100**	**940**	**320**	**720**
Benzo(b)fluoranthene	3,200	3,600	**2,400**	**630**	**1,200**	**44** J	**2,100**	**630**	**890**	**260** J	**500**	**380**	**770**	**820**	**1,800**	**1,100**	**330**	**790**
Benzo(g,h,i)perylene	670	720	1,800 U	**160**	**710**	**62**	**310**	**560**	**720**	**110** J	**170**	**190** J	**240**	**400**	**150**	**460**	**180**	**360**
Benzo(k)fluoranthene	3,200	3,600	**2,300**	**340**	**1,200**	**85**	**1,700**	**950**	**820**	**260** J	**430**	**340**	**620**	**1,500**	**1,800**	**1,100**	**300**	**790**
Chrysene	1,400	2,800	**3,100**	**610**	**1,800**	**100**	**1,500**	**1,300**	**1,200**	**390** J	**550**	**320**	**1,000**	**1,300**	**1,300**	**1,400**	**430**	**1,100**
Dibenz(a,h)anthracene	230	230	1,800 U	98 U	**220**	61 U	90 J	**120** J	450 U	92 UJ	150 U	**60** J	97 U	370 U	79 U	220 U	89 U	**68** U
Fluoranthene	1,700	2,500	**5,900**	**1,100**	**2,300**	**190**	**2,900**	**2,900**	**2,000**	**740**	**900**	**660**	**1,400**	**2,200**	**2,700**	**3,000**	**890**	**2,000**
Indeno(1,2,3-cd)pyrene	600	690	1,800 U	**170**	**660**	**50** J	**260**	**440**	450 U	**79** J	150 U	**130** J	**150**	**250** J	**230**	**440**	**210**	**410**
Pyrene	2,600	3,300	**5,500**	**950**	**2,400**	**150**	**2,000**	**2,000**	**1,600**	**430** J	**860**	**1,200**	**920**	**2,100**	**2,400**	**1,400**	**450**	**1,600**
Total HPAH	12,000	17,000	**21,100**	**4,670**	**12,320**	**800** J	**13,060** J	**10,710** J	**8,610**	**2,749** J	**3,990**	**3,850** J	**5,770**	**9,990** J	**12,580**	**10,690**	**3,400**	**8,500**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**67,000**	**8,700**	**23,000**	**1,000** B	**33,000**	**9,400** B	**22,000** B	**4,900** J	**12,000**	**7,200**	**13,000**	**22,000**	**18,000** J	**13,000**	**1,400**	**8,400**
Butylbenzylphthalate	63	900	**2,900**	**390**	**1,800**	61 U	**440**	**350**	450 U	**130** J	**370**	**390**	97 U	**770**	**1,200**	**480**	**140**	68 U
Diethylphthalate	200		1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Dimethylphthalate	71	160	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	**18** J	97 U	370 U	79 U	220 U	89 U	68 U
Di-n-butylphthalate	1,400	1,400	1,800 U	**130**	**380**	61 U	**210** U	**100** J	**1,200**	92 UJ	150 U	**84**	**150**	370 U	**81**	220 U	89 U	68 U
Di-n-octyl phthalate	6,200		**3,500**	**710**	**1,700**	**80**	**1,400**	**850**	**1,400**	**540** J	**980**	**860**	**1,900**	**3,500**	**380**	**870**	**140**	**84**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	20 U	20 U	20 U	99 U	20 U	120 Y	20 U	20 U	20 U	58 U	44 U	24 U	20 U	20 U	20 U
Aroclor 1221			40 U	20 U	20 U	20 U	99 U	20 U	39 Y	20 U	20 U	20 U	58 U	44 U	49 U	20 U	20 U	20 U
Aroclor 1232			20 U	20 U	20 U	20 U	99 U	20 U	160 Y	20 U	20 U	20 U	58 U	44 U	24 U	20 U	20 U	20 U
Aroclor 1242			20 U	20 U	20 U	20 U	99 U	**63**	120 Y	20 U	20 U	20 U	58 U	44 U	24 U	20 U	20 U	20 U
Aroclor 1248			20 U	20 U	20 U	72 Y	99 Y	20 U	120 Y	53 Y	64 U	**56**	**150**	88 Y	24 U	**68** J	**60** J	20 U
Aroclor 1254			**85**	**240**	**66**	**200**	**370**	**140**	**310**	**83**	**92**	**95**	**160**	**140**	**96**	**45**	**21** J	**22**
Aroclor 1260			20 U	**630**	**81**	**190**	**150**	**69**	**230**	**66** J	**79**	**58**	**83**	**75**	24 U	**31**	**14** J	20 U
Total PCBs	130	1,000	**85**	**870**	**147**	**390**	**520**	**272**	**540**	**149**	**171**	**209**	**393**	**215**	**96**	**144** J	**95** J	**22**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
1,2-Dichlorobenzene	35	50	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
1,3-Dichlorobenzene			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
1,4-Dichlorobenzene	110	110	1,800 U	**270**	200 U	61 U	**83** J	200 U	450 U	92 UJ	150 U	**14** J	97 U	370 U	79 U	220 U	89 U	68 U
1-Methylnaphthalene			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
2,2'-Oxybis(1-chloropropane)			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
2,4,5-Trichlorophenol			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
2,4,6-Trichlorophenol			5,400 U	290 U	610 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	240 U	650 U	270 U	200 U
2,4-Dichlorophenol			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
2,4-Dimethylphenol[a]	29	29	18,000 U	980 U	2,000 U	610 U	1,200 U	2,000 U	4,500 U	920 UJ	1,500 U	200 U	970 U	3,700 U	790 U	2,200 U	890 U	680 U

DT2: Diagonal sediment traps (dry weight).

Station ID			ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST2	ST2A	ST2B	ST2
Lab Ref			FT96	GI77	GY11, GY49	HV92	IS42	JF27	JV42	KS67	LL01	MR44	NR10	OT18	FT96	GK59	GK59	GY11, GY49
Round			1	2	3	4	5	6	7	8	9	10	11	12	1	2	2	RCB
Date removed	**SQS**	**CSL**	08/19/03	02/18/04	07/30/04	03/14/05	11/07/05	03/31/06	09/05/06	03/22/07	08/13/07	04/09/08	09/25/08	03/31/09	08/18/03	03/11/04	03/11/04	08/05/04
2,4-Dinitrophenol			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
2,4-Dinitrotoluene			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
2,6-Dinitrotoluene			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
2-Chloronaphthalene			1,800 U	98 U	200 U	61 U	**68** J	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
2-Chlorophenol			1,800 U	**88** NJ	200 U	61 U	**73** J	200 U	450 U	92 UJ	150 U	**24**	97 U	370 U	79 U	220 U	89 U	68 U
2-Methylnaphthalene	670	670	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	**88**	220 U	89 U	**230**
2-Methylphenol[a]	63	63	8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
2-Nitrophenol			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
3,3'-Dichlorobenzidine			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	**460** J	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
3-Nitroaniline			11,000 U	590 U	1,200 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	470 U	1,300 U	530 U	410 U
4,6-Dinitro-2-methylphenol			18,000 U	980 U	2,000 U	610 U	1,200 U	2,000 U	4,500 U	920 UJ	1,500 U	200 U	970 U	3,700 U	790 U	2,200 U	890 U	680 U
4-Bromophenyl-phenylether			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
4-Chloro-3-methylphenol			3,600 U	200 U	410 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	160 U	430 U	180 U	140 U
4-Chloroaniline			5,400 U	290 U	610 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	240 U	650 U	270 U	200 U
4-Chlorophenyl-phenylether			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
4-Methylphenol[a]	670	670	**15,000**	**8,700**	200 U	61 U	**430**	**630**	**820**	**1,200** J	**200**	**52**	**440**	370 U	**940**	**4,600**	**360**	**11,000**
4-Nitroaniline			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
4-Nitrophenol			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
Benzoic acid[a]	650	650	18,000 U	980 U	2,000 U	610 U	1,200 U	2,000 U	4,500 U	920 UJ	1,500 U	200 U	970 U	3,700 U	790 U	2,200 U	890 U	680 U
Benzyl alcohol[a]	57	73	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	26	97 U	370 U	79 U	220 U	89 U	68 U
bis(2-Chloroethoxy) methane			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Bis-(2-chloroethyl) ether			3,600 U	200 U	410 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	160 U	430 U	180 U	140 U
Carbazole			1,800 U	**84** J	**270**	61 U	**320**	**300**	**450**	**70** J	150 U	**60**	97 U	**220** J	**300**	220 U	89 U	**220**
Dibenzofuran	540	540	1,800 U	98 U	200 U	61 U	120 U	**230**	450 U	92 UJ	150 U	**18** J	97 U	370 U	79 U	220 U	89 U	68 U
Hexachlorobenzene	22	70	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Hexachlorobutadiene	11	120	1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Hexachlorocyclopentadiene			8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
Hexachloroethane			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Isophorone			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Nitrobenzene			1,800 U	98 U	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
n-Nitroso-di-n-propylamine			3,600 U	200 U	410 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	160 U	430 U	180 U	140 U
N-Nitrosodiphenylamine	28	40	1,800 U	100 Y	200 U	61 U	120 U	200 U	450 U	92 UJ	150 U	20 U	97 U	370 U	79 U	220 U	89 U	68 U
Pentachlorophenol[a]	360	690	8,900 U	490 U	1,000 U	300 U	610 U	1,000 U	2,200 U	460 UJ	770 U	99 U	490 U	1,900 U	390 U	1,100 U	450 U	340 U
Phenol[a]	420	1,200	1,800 U	**290**	200 U	**91** B	**180**	200 U	450 U	140 UJ	**1,100**	36 U	**100**	370 U	79 U	220 U	89 U	240

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT2: Diagonal sediment traps (dry weight).

Station ID			ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST3	ST3	ST3	ST3	ST3	ST3	ST3
Lab Ref			HV92	IL86	JE98	JV42	KS87	LM54	MR44	NQ66	OT18	FT96	GK59	HV92	JV42	KS87	LM54	MR44
Round			4	5	6	7	8	9	10	11	12	1	2	4	7	8	9	10
Date removed	**SQS**	**CSL**	03/09/05	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	08/18/03	03/11/04	03/14/05	09/05/06	03/22/07	08/22/07	04/09/08
Total solids (%)			56.1	59.3	54.8	59.1	68.7	62.2	69	52.7	74.3	66.1	68.7	41.0	79.5	71.9	69.9	77.4
Total organic carbon (%)			8.42	7.13	9.45	6.64	3.16	4.95	6.69	7.5	3.0	6.7	1.8	8.28	3.02	3.86	2.87	4.1
Metals (mg/kg)																		
Arsenic	57	93	9 U	10 U	**11** J	8 U	8 U	8 U	7 U	**10**	7 UJ	9 U	7 U	10 U	7 U	7 U	7 U	7 U
Copper	390	390	**93.2**	**597**	**100** J	**99.4**	**61.4**	**120**	**59.5**	**136**	**28.3** J	**138**	**68.8**	**164**	**214**	**95.8**	**80.5**	**180**
Lead	450	530	**111**	**123**	**92** J	**130**	**195**	**59**	**78**	**107**	**35** J	**128**	**102**	**156**	**74**	**73**	**86**	**74**
Mercury	0.41	0.59	0.08 U	0.1 U	**0.07** J	0.07 U	0.06 U	0.07 U	0.07 U	**0.37**	0.06 UJ	**0.07**	0.07 U	**0.2**	0.05 U	0.07 U	**0.06**	**0.16**
Zinc	410	960	**465**	**874**	**428** J	**357**	**275**	**277**	**241**	**459**	**282** J	**653**	**433**	**662**	**408**	**394**	**392**	**354**
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**52**	**760**	**600**	**440**	**300**	**460**	**360**	**960**	**280**	**560**	**380**	**140**	**250**	**240**	**330**	**270**
TPH-oil	2,000[b]		**290**	**3,100**	**3,300**	**2,900**	**1,400**	**2,100**	**2,200**	**4,200**	**1,600**	**1,400**	**1,200**	**640**	**1,600**	**1,200**	**1,900**	**1,800**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**800**	60 U	84 U	360 U	91 UJ	90 U	**41** J	**64** J	**58** J	140 U	76 U	470 U	240 U	**65** J	88 U	68 U
Acenaphthylene	1,300	1,300	180 U	60 U	84 U	360 U	91 UJ	90 U	**65** J	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Anthracene	960	960	**1,900**	64	100	360 U	91 UJ	**110**	**260**	**330**	**240**	**200**	76 U	470 U	240 U	**72** J	88 U	**64** J
Fluorene	540	540	**730**	60 U	55 J	360 U	91 UJ	90 U	**90**	**92** J	**71** J	140 U	76 U	470 U	240 U	**66** J	88 U	**45** J
Naphthalene	2,100	2,100	170 U	60 U	84 U	360 U	91 UJ	90 U	**660**	**100**	**71** J	**580**	76 U	470 U	240 U	**180** J	88 U	**250**
Phenanthrene	1,500	1,500	**7,000**	**370**	**590**	**520**	**200** J	**590**	**1,200**	**1,500**	**1,200**	**1,100**	**200**	**2,600**	**270**	**560** J	**410**	**380**
Total LPAH	5,200	5,200	**10,430**	**434**	**745** J	**520**	**200** J	**700**	**2,316** J	**2,086** J	**1,640** J	**1,880**	**200**	**2,600**	**270**	**943** J	**410**	**739** J
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**4,700**	**290**	**490**	**370**	**170** J	**400**	**1,100**	**760**	**1,100**	**730**	**110**	**690**	240 U	**190** J	**260**	**190**
Benzo(a)pyrene	1,600	1,600	**3,800**	**290**	**450**	360 U	**160** J	**410**	**1,100**	**1,400**	**1,000**	140 U	**110**	**840**	240 U	**160** J	**270**	**200**
Benzo(b)fluoranthene	3,200	3,600	**4,100**	**390**	**390**	360 U	**180** J	**450**	**1,000**	**1,900**	**1,300**	**420**	**120**	**860**	240 U	**210** J	**330**	**190**
Benzo(g,h,i)perylene	670	720	**1,900**	**76**	**250**	360 U	**78** J	**160**	**390**	**460**	**370**	140 U	**83**	**640**	240 U	**74** J	**130**	**98**
Benzo(k)fluoranthene	3,200	3,600	**2,700**	**390**	**590**	**400**	**180** J	**520**	**1,000**	**1,600**	**1,000**	**350**	**120**	**950**	240 U	**240** J	**280**	**190**
Chrysene	1,400	2,800	**5,600**	**400**	**760**	**560**	**260** J	**570**	**1,400**	**2,600**	**1,300**	**1,000**	**200**	**1,500**	**280**	**300** J	**400**	**310**
Dibenz(a,h)anthracene	230	230	**440**	60 U	84 U	360 U	91 UJ	90 U	**170**	**210**	**94** J	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Fluoranthene	1,700	2,500	**12,000**	**980**	**1,700**	**1,000**	**530** J	**1,400**	**3,000**	**3,700**	**2,800**	**1,600**	**390**	**3,900**	**570**	**680** J	**910**	**660**
Indeno(1,2,3-cd)pyrene	600	690	**2,000**	**74**	**200**	360 U	**57** J	**140**	**380**	**440**	**390**	140 U	**74** J	**600**	240 U	**51** J	**100**	**74**
Pyrene	2,600	3,300	**8,500**	**640**	**800**	**800**	**260** J	**790**	**2,000**	**2,700**	**1,900**	**1,600**	**190**	**2,400**	**410**	**380** J	**520**	**520**
Total HPAH	12,000	17,000	**45,740**	**3,530**	**5,630**	**3,130**	**1,875** J	**4,840**	**11,540**	**15,770**	**11,254** J	**5,700**	**1,397** J	**12,380**	**1,260**	**2,285** J	**3,200**	**2,432**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**9,900**	**4,000**	**7,500**	**8,900** B	**6,200** J	**4,300**	**6,600**	**12,000**	**4,000**	**15,000**	**4,600**	**16,000**	**4,700** B	**4,600** J	**4,300**	**7,000**
Butylbenzylphthalate	63	900	**660**	120	**250**	**1,400**	**250** J	**150**	**260**	**220**	**60** J	**2,000**	**120**	**1,000**	**840**	**500** J	**1,800**	**160**
Diethylphthalate	200		180 U	60 U	**160**	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Dimethylphthalate	71	160	180 U	60 U	44 J	360 U	91 UJ	90 U	78 U	**63** J	**760**	140 U	**270**	470 U	240 U	88 UJ	**410**	68 U
Di-n-butylphthalate	1,400	1,400	180 U	60 U	**270**	360 U	**87** J	90 U	93 Y	**890**	100 U	140 U	76 U	470 U	240 U	**67** J	**150**	68 U
Di-n-octyl phthalate	6,200		**290**	**110**	**470**	**560**	**290** J	**620**	**3,400**	**2,700**	**1,100**	**3,900** NJ	**410**	**1,300**	**540**	**410** J	**1,500**	**5,000**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20	20 U	20 U	20 U	20 U	20 U	39 U	97 U	20 U
Aroclor 1221			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20	20 U	39 U	20 U	20 U	50 Y	39 U	97 U	20 U
Aroclor 1232			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20	20 U	20 U	20 U	20 U	20 U	39 U	97 U	20 U
Aroclor 1242			20 U	19 U	20 U	**76**	20 U	**110**	**65**	**80**	**26**	20 U	20 U	20 U	20 U	39 U	97 U	20 U
Aroclor 1248			**75**	**35**	**750**	19 U	**68**	20 U	20 U	20	20 U	20 U	20 U	58 Y	20 U	58 Y	97 U	20 U
Aroclor 1254			**80**	**79**	**260**	**51**	**34**	**49**	21	**30**	20 U	**130**	**50**	20 U	**110**	**200**	**160**	**59**
Aroclor 1260			93 Y	37 Y	**97**	**86**	20 UJ	**20**	20 U	20	20 U	20 U	**23** J	20 U	**54**	**110** J	200 Y	**20**
Total PCBs	130	1,000	**155**	**114**	**1,107**	**213**	**102**	**179**	**65**	**110**	**26**	**130**	**73** J	58 Y	**164**	**310**	**160**	**79**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
1,2-Dichlorobenzene	35	50	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
1,3-Dichlorobenzene			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
1,4-Dichlorobenzene	110	110	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
1-Methylnaphthalene			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
2,2'-Oxybis(1-chloropropane)			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2,4,5-Trichlorophenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2,4,6-Trichlorophenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	430 U	230 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2,4-Dichlorophenol			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
2,4-Dimethylphenol[a]	29	29	1,800 U	600 U	840 U	3,600 U	910 UJ	900 U	780 U	940 U	1,000 U	1,400 U	760 U	4,700 U	2,400 U	880 UJ	80 U	680 U

DT2: Diagonal sediment traps (dry weight).

Station ID			ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST3	ST3	ST3	ST3	ST3	ST3	ST3
Lab Ref			HV92	IL86	JE98	JV42	KS87	LM54	MR44	NQ66	OT18	FT96	GK59	HV92	JV42	KS87	LM54	MR44
Round			4	5	6	7	8	9	10	11	12	1	2	4	7	8	9	10
Date removed	**SQS**	**CSL**	03/09/05	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	08/18/03	03/11/04	03/14/05	09/05/06	03/22/07	08/22/07	04/09/08
2,4-Dinitrophenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2,4-Dinitrotoluene			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2,6-Dinitrotoluene			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
2-Chloronaphthalene			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
2-Chlorophenol			**180**	60 U	84 U	360 U	91 UJ	90 U	**41** J	94 U	100 U	**1,400**	**100**	470 U	240 U	**1,500** J	**100**	**57** J
2-Methylnaphthalene	670	670	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
2-Methylphenol[a]	63	63	880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
2-Nitrophenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
3,3'-Dichlorobenzidine			880 U	300 U	R	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	**440** J	440 U	340 U
3-Nitroaniline			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	860 U	460 U	2,400 U	1,200 U	440 UJ	440 U	340 U
4,6-Dinitro-2-methylphenol			1,800 U	600 U	840 U	3,600 U	910 UJ	900 U	780 U	940 U	1,000 U	1,400 U	760 U	4,700 U	2,400 U	880 UJ	880 U	680 U
4-Bromophenyl-phenylether			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
4-Chloro-3-methylphenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	290 U	150 U	2,400 U	1,200 U	440 UJ	440 U	340 U
4-Chloroaniline			880 U	300 U	R	1,800 U	450 UJ	450 U	390 U	470 U	500 U	430 U	230 U	2,400 U	1,200 U	440 UJ	440 U	340 U
4-Chlorophenyl-phenylether			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
4-Methylphenol[a]	670	670	**2,000**	**830**	**1,300**	**910**	**630** J	**1,400**	**1,000**	**920**	**510**	**1,900**	76 U	**240** J	240 U	**720** J	**460**	**400**
4-Nitroaniline			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
4-Nitrophenol			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
Benzoic acid[a]	650	650	1,800 U	600 U	**430** J	3,600 U	910 UJ	900 UJ	780 U	940 U	1,000 U	1,400 U	760 U	4,700 U	2,400 U	880 UJ	880 UJ	**440** J
Benzyl alcohol[a]	57	73	180 U	60 U	84 U	360 U	91 UJ	**150**	78 U	**76** J	100 U	140 U	**83**	470 U	240 U	88 UJ	88 U	68 U
bis(2-Chloroethoxy) methane			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Bis-(2-chloroethyl) ether			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	290 U	150 U	470 U	240 U	88 UJ	88 U	68 U
Carbazole			**1,100**	**83**	**110**	360 U	91 UJ	**130**	**270**	**520**	**390**	**170**	76 U	470 U	240 U	**52** J	88 U	**62** J
Dibenzofuran	540	540	**350**	60 U	84 U	360 U	91 UJ	90 U	**40** J	**66** J	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Hexachlorobenzene	22	70	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Hexachlorobutadiene	11	120	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Hexachlorocyclopentadiene			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
Hexachloroethane			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Isophorone			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Nitrobenzene			180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
n-Nitroso-di-n-propylamine			880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	290 U	150 U	2,400 U	1,200 U	440 UJ	440 U	340 U
N-Nitrosodiphenylamine	28	40	180 U	60 U	84 U	360 U	91 UJ	90 U	78 U	94 U	100 U	140 U	76 U	470 U	240 U	88 UJ	88 U	68 U
Pentachlorophenol[a]	360	690	880 U	300 U	420 U	1,800 U	450 UJ	450 U	390 U	470 U	500 U	720 U	380 U	2,400 U	1,200 U	440 UJ	440 U	340 U
Phenol[a]	420	1,200	180 U	**88**	**99**	360 U	91 UJ	**93**	94 U	**70** J	100 U	**150**	76 U	470 U	240 U	88 UJ	88 U	68 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT2: Diagonal sediment traps (dry weight).

Station ID			ST3	ST3	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST6	ST6	ST6	ST6
Lab Ref			OT18	NQ66	FT96	HV92	IL86	JE98	JV42	KS87	LM54	MR44	NQ66	OT18	FT96	HV92	IL86	JE98
Round			11	12	1	4	5	6	7	8	9	10	11	12	1	4	5	6
Date removed	**SQS**	**CSL**	03/31/09	09/23/08	08/18/03	03/10/05	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	08/21/03	03/11/05	08/26/05	3/28/2006
Total solids (%)			71.9	77.7	38.5	74.8	19.3	57.2	34.1	62.3	41	59.5	44.7	54.2	29.3	35.8	37.1	63.1
Total organic carbon (%)			3.46	5.35	13	1.97	16.6	2.79	18.1	7.82	9.55	7.66	14.2	7.41	12	11.3	12.4	10.7
Metals (mg/kg)																		
Arsenic	57	93	7 UJ	6 U	6 U	**14**	50 U	**9** J	10 U	8 U	10 U	9 U	10 U	9 UJ	8 U	10 U	20 U	7 UJ
Copper	390	390	**72.3** J	**110**	**136**	**32.5**	**532**	**66.4** J	**146**	**42.9**	**110**	**50.4**	**112**	**83** J	**231**	**100**	**182**	**64.5** J
Lead	450	530	**51** J	**182**	**175**	**29**	**360**	**71** J	**112**	**37**	**111**	**55**	**111**	**74** J	**200**	**122**	**248**	**79** J
Mercury	0.41	0.59	0.05 UJ	0.05 U	**0.1**	0.05 U	**2.8**	**0.07** J	**0.2**	0.07 U	**0.12**	0.07 U	**0.1**	**0.12** J	**0.25**	**0.13**	**0.2**	**0.06** J
Zinc	410	960	**300** J	**268**	**479**	**164**	**1,930**	**341** J	**650**	**194**	**466**	**259**	**530**	**464** J	**944**	**399**	**1,090**	**284** J
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**520**	**290**	**600**	**140**	**1,800**	**520**	**510**	**540**	**1,200**	**410**	**1,000**	**590**	NA	**140**	**1,200**	**970**
TPH-oil	2,000[b]		**2,900**	**1,500**	**1,200**	**750**	**7,300**	**2,600**	**2,800**	**1,600**	**4,800**	**2,600**	**3,300**	**2,400**	NA	**680**	**4,000**	**3,900**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	**200** J	**490**	**170**
Acenaphthylene	1,300	1,300	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Anthracene	960	960	**95** J	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	**43** J	260 U	290 U	1,100 U	**720**	**1,900**	**590**
Fluorene	540	540	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	**30** J	260 U	290 U	1,100 U	**320**	**960**	**190**
Naphthalene	2,100	2,100	**5,100**	**290**	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	**1,400**
Phenanthrene	1,500	1,500	**520**	**450**	**520**	**180**	NA	**210**	490 U	**180** J	**740**	**300**	**240** J	**270** J	**5,900**	**4,800**	**16,000**	**5,600**
Total LPAH	5,200	5,200	**5,715** J	**740**	**520**	**180**	NA	**210**	**490**	**180** J	**740**	**373** J	**240** J	**270** J	**5,900**	**6,040** J	**19,350**	**7,950**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**180**	**330**	**350**	**100**	NA	**120**	490 U	**91** J	300 U	**150**	**170** J	**170** J	**3,200**	**2,900**	**10,000**	**2,400**
Benzo(a)pyrene	1,600	1,600	**170**	**300**	**470**	**110**	NA	**170**	490 U	**99** J	300 U	**170**	**210** J	**180** J	**3,400**	**3,100**	**10,000**	**2,000**
Benzo(b)fluoranthene	3,200	3,600	**180**	**290**	**730**	**100**	NA	**170**	490 U	**140** J	**420**	**200**	**300**	**280** J	**4,700**	**4,300**	**17,000**	**2,600**
Benzo(g,h,i)perylene	670	720	**100** J	**110** J	**290**	**54** J	NA	**120** J	490 U	95 UJ	300 U	**82**	260 U	290 U	**1,700**	**1,100**	**2,600**	**740**
Benzo(k)fluoranthene	3,200	3,600	**230**	**390**	**500**	**140**	NA	**120** J	490 U	**130** J	300 U	**200**	**340**	**340**	**4,700**	**3,000**	**15,000**	**1,800**
Chrysene	1,400	2,800	**320**	**460**	**580**	**170**	NA	**220**	490 U	**170** J	**480**	**280**	**400**	**340**	**5,000**	**4,000**	**15,000**	**3,200**
Dibenz(a,h)anthracene	230	230	170 U	210 U	160 U	60	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	**310**	**780**	**340**
Fluoranthene	1,700	2,500	**570**	**830**	**990**	**350**	NA	**310**	**780**	**300** J	**900**	**550**	**510**	**480**	**9,100**	**10,000**	**30,000**	**6,300**
Indeno(1,2,3-cd)pyrene	600	690	170 U	210 U	**460**	**52** J	NA	**78** J	490 U	95 UJ	300 U	**68**	260 U	290 U	**1,900**	**1,400**	**3,200**	**770**
Pyrene	2,600	3,300	**550**	**730**	**870**	**220**	NA	**180**	**530**	**180** J	**620**	**460**	**430**	**400**	**8,200**	**6,300**	**24,000**	**3,900**
Total HPAH	12,000	17,000	**2,300** J	**3,440** J	**5,240**	**1,356** J	NA	**1,488** J	**1,310**	**1,110** J	**2,420**	**2,160**	**2,360** J	**2,190** J	**41,900**	**36,410**	**127,580**	**24,050**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**12,000**	**5,100**	**8,900**	**1,100**	NA	**3,000**	**13,000** B	**6,900** J	**8,300**	**3,200**	**8,400**	**9,700**	**42,000**	**13,000**	**14,000**	**5,300**
Butylbenzylphthalate	63	900	**210**	**270**	**410**	**200**	NA	**110** J	**650**	**360** J	300 U	**190**	**710**	**2,000**	**3,400**	**1,000**	**520**	**180**
Diethylphthalate	200		170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Dimethylphthalate	71	160	170 U	210 U	**300**	60 U	NA	**68** J	490 U	**91** J	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Di-n-butylphthalate	1,400	1,400	170 U	210 U	**720**	60 U	NA	**180**	490 U	95 UJ	300 U	**120**	**300**	290 U	1,100 U	**370**	400 U	**120** J
Di-n-octyl phthalate	6,200		**5,800**	**3,200**	**330**	60 U	NA	**220**	490 U	**390** J	**390**	**240**	**280**	**800**	**3,700**	**730**	**430**	**350**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	20 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U	18 U	260 U	19 U	20 U	19 U	20 U
Aroclor 1221			20 U	19 U	39 U	20 U	20 U	100 U	20 U	20 U	20 U	20 U	18 U	260 U	38 U	20 Y	19 U	20 U
Aroclor 1232			20 U	19 U	20 U	20 U	59 Y	100 U	20 U	20 U	20 U	20 U	18 U	260 U	19 U	20 Y	38 Y	20 U
Aroclor 1242			20 U	19 U	20 U	20 U	40 Y	100 U	20 U	20 U	20 U	20 U	18 U	260 U	19 U	20 U	19 U	20 U
Aroclor 1248			20 U	19 U	20 U	**64**	59 Y	100 U	20 U	20 U	**660**	20 U	30 Y	260 U	19 U	20 U	38 Y	20 U
Aroclor 1254			**58**	**57**	**130**	20 U	**420**	**2,900**	**120**	**27**	**230**	**30**	41 Y	**800**	**84**	54 Y	**94** J	**45**
Aroclor 1260			20 U	19 U	20 U	20 U	40 Y	**350**	**34**	20 UJ	20 U	20 U	18 U	260 U	19 U	160 Y	28 Y	20 U
Total PCBs	130	1,000	**58**	**57**	**130**	**64**	**420**	**3,250**	**154**	**27**	**890**	**30**	41 Y	**800**	**84**	160 Y	**94** J	**45**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
1,2-Dichlorobenzene	35	50	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
1,3-Dichlorobenzene			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
1,4-Dichlorobenzene	110	110	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
1-Methylnaphthalene			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2,2'-Oxybis(1-chloropropane)			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
2,4,5-Trichlorophenol			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
2,4,6-Trichlorophenol			850 U	1,000 U	470 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	3,300 U	1,100 U	2,000 U	630 U
2,4-Dichlorophenol			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2,4-Dimethylphenol[a]	29	29	1,700 U	2,100 U	1,600 U	600 U	NA	1,200 U	4,900 U	950 UJ	3,000 U	590 U	2,600 U	2,900 U	11,000 U	2,200 U	4,000 U	1,300 U

DT2: Diagonal sediment traps (dry weight).

Station ID			ST3	ST3	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST5	ST6	ST6	ST6	ST6
Lab Ref			OT18	NQ66	FT96	HV92	IL86	JE98	JV42	KS87	LM54	MR44	NQ66	OT18	FT96	HV92	IL86	JE98
Round			11	12	1	4	5	6	7	8	9	10	11	12	1	4	5	6
Date removed	**SQS**	**CSL**	03/31/09	09/23/08	08/18/03	03/10/05	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	08/21/03	03/11/05	08/26/05	3/28/2006
2,4-Dinitrophenol			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
2,4-Dinitrotoluene			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
2,6-Dinitrotoluene			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2-Chloronaphthalene			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2-Chlorophenol			**300**	210 U	160 U	60 U	NA	120 U	490 U	**120** J	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2-Methylnaphthalene	670	670	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	**370**	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
2-Methylphenol[a]	63	63	850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
2-Nitrophenol			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
3,3'-Dichlorobenzidine			850 U	1,000 U	780 U	300 U	NA	R	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	
3-Nitroaniline			850 U	1,000 U	940 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	6,700 U	1,100 U	2,000 U	630 U
4,6-Dinitro-2-methylphenol			1,700 U	2,100 U	1,600 U	600 U	NA	1,200 U	4,900 U	950 UJ	3,000 U	590 U	2,600 U	2,900 U	11,000 U	2,200 U	4,000 U	1,300 U
4-Bromophenyl-phenylether			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
4-Chloro-3-methylphenol			850 U	1,000 U	310 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	2,200 U	1,100 U	2,000 U	630 U
4-Chloroaniline			850 U	1,000 U	470 U	300 U	NA	R	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	3,300 U	1,100 U	2,000 U	
4-Chlorophenyl-phenylether			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
4-Methylphenol[a]	670	670	**2,400**	**390**	**980**	**100**	NA	**1,700**	**2,500**	**1,000** J	**3,200**	**1,400**	**2,400**	**2,600**	**5,100**	**480**	**900**	**1,800**
4-Nitroaniline			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
4-Nitrophenol			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
Benzoic acid[a]	650	650	**1,500** J	2,100 U	**1,900**	600 U	NA	1,200 U	4,900 U	950 UJ	3,000 UJ	590 U	2,600 U	2,900 U	11,000 U	2,200 U	4,000 U	1,300 U
Benzyl alcohol[a]	57	73	170 U	210 U	160 U	60 U	NA	**150**	490 U	95 UJ	300 U		260 U	290 U	1,100 U	220 U	400 U	130 U
bis(2-Chloroethoxy) methane			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Bis-(2-chloroethyl) ether			170 U	210 U	310 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	2,200 U	220 U	400 U	130 U
Carbazole			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	**42** J	260 U	290 U	**1,200**	**1,000**	**3,500**	**740**
Dibenzofuran	540	540	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	**170**	**490**	**110** J
Hexachlorobenzene	22	70	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Hexachlorobutadiene	11	120	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Hexachlorocyclopentadiene			850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
Hexachloroethane			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Isophorone			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Nitrobenzene			170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
n-Nitroso-di-n-propylamine			850 U	1,000 U	310 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	300 U	1,300 U	1,400 U	2,200 U	1,100 U	2,000 U	630 U
N-Nitrosodiphenylamine	28	40	170 U	210 U	160 U	60 U	NA	120 U	490 U	95 UJ	300 U	59 U	260 U	290 U	1,100 U	220 U	400 U	130 U
Pentachlorophenol[a]	360	690	850 U	1,000 U	780 U	300 U	NA	610 U	2,400 U	480 UJ	1,500 U	**360**	1,300 U	1,400 U	5,600 U	1,100 U	2,000 U	630 U
Phenol[a]	420	1,200	**140** J	210 U	160 U	60 U	NA	**160**	490 U	95 UJ	300 U	94 U	260 U	**220** J	1,100 U	220 U	400 U	**190**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS Exceeds CSL/2LAET

Concentration exceeds the CSL/2LAET

DT2: Diagonal sediment traps (dry weight).

Station ID			ST6	ST6	ST6	ST6	ST6	ST6	ST7	ST7	ST7	ST7	ST7	ST7	ST7	ST7	ST7
Lab Ref			JV42	KS87	LM54	MR44	NQ66	OT18	GI77	IS42	JF27	JV42	KS87	LL01	MR44	NQ66	OT18
Round			7	8	9	10	11	12	2	5	6	7	8	9	10	11	12
Date removed	**SQS**	**CSL**	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	02/18/04	11/07/05	03/31/06	09/05/06	03/22/07	08/13/07	04/09/08	09/23/08	03/31/09
Total solids (%)			36.6	61	45.5	74.4	61.7	47.9	74.4	14.1	73.8	60.2	63	93.3	58.3	66.4	68.3
Total organic carbon (%)			11.4	7.08	8.12	7.8	6.58	9.68	6.9	15.1	6.59	6.89	3.57	2.62	8.58	8.28	6.17
Metals (mg/kg)																	
Arsenic	57	93	10 U	8 U	10 U	7 U	7 U	10 UJ	**9**	8 U	**7**	8 U	7 U	9 U	7 U	**9**	7 UJ
Copper	390	390	**155**	**57.6**	**120**	**35.6**	**63.9**	**105** J	**62.6**	**89.9**	**91.2**	**102**	**74.6**	**104**	**104**	**111**	**74.2** J
Lead	450	530	**123**	**71**	**92**	**145**	**66**	**79** J	**61**	**99**	**35**	**82**	**60**	**98**	**72**	**92**	**52** J
Mercury	0.41	0.59	**0.2**	0.06 U	**0.11**	0.05 U	**0.12**	**0.14** J	0.06 U	**0.1**	0.05 U	**0.09**	**1.28**	**0.13**	**0.08**	**0.12**	**0.07** J
Zinc	410	960	**881**	**237**	**591**	**214**	**335**	**523** J	**262**	**400**	**255**	**387**	**283**	**401**	**337**	**554**	**322** J
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		**1,100**	**460**	**1,100**	**290**	**460**	**1,200**	NA	**1,900**	**450**	**480**	**540**	**1,200**	**620**	**1,100**	**910**
TPH-oil	2,000[b]		**6,000**	**2,000**	**5,000**	**1,600**	**1,800**	**5,500**	NA	**7,500**	**1,900**	**2,800**	**2,100**	**6,000**	**3,600**	**4,000**	**3,200**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	440 U	110 UJ	430 U	**82**	**210**	400 U	**42** J	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Acenaphthylene	1,300	1,300	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Anthracene	960	960	**580**	**160** J	430 U	**440**	**690**	**380** J	78 U	**76** J	180 U	360 U	**110** J	170 U	**65** J	72 U	240 U
Fluorene	540	540	440 U	110 UJ	430 U	**140**	**260**	400 U	**65** J	**62** J	180 U	360 U	120 UJ	170 U	**46** J	72 U	240 U
Naphthalene	2,100	2,100	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	**89**	72 U	240 U
Phenanthrene	1,500	1,500	**4,400**	**1,200** J	**2,200**	**2,600**	**4,400**	**2,700**	**270**	**590**	**180**	**640**	**470** J	**310**	**510**	**190**	**350**
Total LPAH	5,200	5,200	**4,980**	**1,360** J	**2,200**	**3,262**	**5,560**	**3,080** J	**377** J	**728** J	**180**	**640**	**580** J	**310**	**710** J	**190**	**350**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**2,900**	**840** J	**1,400**	**1,800**	**2,900**	**1,600**	**120**	**350**	**160** J	**410**	**400** J	**180**	**300**	**160**	**180** J
Benzo(a)pyrene	1,600	1,600	**3,500**	**760** J	**1,400**	**1,600**	**2,500**	**1,700**	**120**	**450**	**140** J	**360**	**350** J	**210**	**250** J	**140**	**200** J
Benzo(b)fluoranthene	3,200	3,600	**3,400**	**1,100** J	**1,500**	**2,600**	**3,300**	**2,300**	**150**	**820**	**160** J	**450**	**670** J	**290**	**470**	**190**	**290**
Benzo(g,h,i)perylene	670	720	**1,200**	**170** J	**680**	**460**	**610**	**570**	**71** J	**150**	**140** J	360 U	**100** J	170 U	**250** J	**62** J	240 U
Benzo(k)fluoranthene	3,200	3,600	**3,400**	**960** J	**1,500**	**1,400**	**3,200**	**2,300**	**140**	**800**	**110** J	**410**	**500** J	**230**	**540**	**190**	**370**
Chrysene	1,400	2,800	**4,200**	**1,200** J	**2,000**	**2,100**	**3,500**	**2,400**	**190**	**600**	**270**	**650**	**700** J	**340**	**660**	**260**	**380**
Dibenz(a,h)anthracene	230	230	**470**	110 UJ	430 U	**260**	**360**	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	**57** J	72 U	240 U
Fluoranthene	1,700	2,500	**11,000**	**3,400** J	**4,600**	**5,100**	**8,700**	**5,000**	**400**	**1,300**	**320**	**1,600**	**1,400** J	**630**	**1,100**	**450**	**580**
Indeno(1,2,3-cd)pyrene	600	690	**1,200**	**150** J	**620**	**540**	**720**	**520**	**68** J	100	180 U	360 U	**87** J	170 U	**190** J	**47** J	240 U
Pyrene	2,600	3,300	**5,500**	**1,400** J	**2,700**	**3,600**	**5,700**	**3,700**	**290**	**970**	**380**	**940**	**860** J	**430**	**1,300**	**320**	**590**
Total HPAH	12,000	17,000	**36,770**	**9,980** J	**16,400**	**19,460**	**31,490**	**20,090**	**1,549** J	**5,540**	**1,680** J	**4,820**	**5,067** J	**2,310**	**5,117** J	**1,819** J	**2,590** J
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**11,000** B	**5,700** J	**9,900**	**4,300**	**2,700**	**16,000**	**2,400**	**11,000**	**1,800** B	**13,000** B	**8,800** J	**5,900**	**7,500**	**2,200**	**9,100**
Butylbenzylphthalate	63	900	**540**	**180** J	430 U	**250**	**320**	**2,700**	**240**	**430**	**1,300**	**460**	**1,100** J	**180**	**350**	**44** J	**200** J
Diethylphthalate	200		440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Dimethylphthalate	71	160	440 U	**75** J	430 U	70 U	**110** J	400 U	78 U	88 U	180 U	360 U	1,200 UJ	170 U	89 U	72 U	240 U
Di-n-butylphthalate	1,400	1,400	440 U	**280** J	430 U	120 Y	160 U	400 U	78 U	210 U	180 U	360 U	**130** J	170 U	89 U	72 U	240 U
Di-n-octyl phthalate	6,200		**590**	**620** J	**710**	**380**	**270**	**1,500**	**190**	88 U	**150** J	**530**	**740** J	**540**	**1,600**	**280**	**5,400**
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	20 U	20 U	19 U	57 U	16 U	19 U	97 U	20 U	48 Y	20 U	20 U	20 U	59 U	20 U
Aroclor 1221			20 U	20 U	20 U	19 U	57 U	16 U	19 U	97 U	20 U	19 U	20 U	20 U	20 U	59 U	20 U
Aroclor 1232			20 U	20 U	20 U	19 U	57 U	16 U	19 U	97 U	20 U	77 Y	20 U	20 U	20 U	59 U	20 U
Aroclor 1242			20 U	20 U	20 U	19 U	57 U	16 U	19 U	97 U	**22** J	58 Y	20 U	20 U	20 U	59 U	20 U
Aroclor 1248			20 U	**66**	20 U	19 U	57 U	16 U	19 U	97 U	20 U	58 Y	**95**	**58**	30 Y	**87**	29 Y
Aroclor 1254			**79**	**73**	**64**	19 U	**140**	**26**	**98**	**180**	**190**	**140**	**120**	**88**	**51**	**240**	**48**
Aroclor 1260			**48**	20 UJ	**37**	19 U	86 Y	16 U	19 U	97 U	**230**	**80**	**84** J	**52**	**27**	**130** J	**26**
Total PCBs	130	1,000	**127**	**139**	**101**	19 U	**140**	**26**	**98**	**180**	**442**	**220**	**299**	**198**	**78**	**457**	**103**
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
1,2-Dichlorobenzene	35	50	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
1,3-Dichlorobenzene			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
1,4-Dichlorobenzene	110	110	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
1-Methylnaphthalene			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
2,2'-Oxybis(1-chloropropane)			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2,4,5-Trichlorophenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2,4,6-Trichlorophenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	240 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2,4-Dichlorophenol			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
2,4-Dimethylphenol[a]	29	29	4,400 U	1,100 UJ	4,300 U	700 U	1,600 U	4,000 U	780 U	880 U	1,800 U	3,600 U	1,200 UJ	1,700 U	890 U	720 U	2,400 U

DT2: Diagonal sediment traps (dry weight).

Station ID			ST6	ST6	ST6	ST6	ST6	ST6	ST7	ST7	ST7	ST7	ST7	ST7	ST7	ST7	ST7
Lab Ref			JV42	KS87	LM54	MR44	NQ66	OT18	GI77	IS42	JF27	JV42	KS87	LL01	MR44	NQ66	OT18
Round			7	8	9	10	11	12	2	5	6	7	8	9	10	11	12
Date removed	**SQS**	**CSL**	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09	02/18/04	11/07/05	03/31/06	09/05/06	03/22/07	08/13/07	04/09/08	09/23/08	03/31/09
2,4-Dinitrophenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2,4-Dinitrotoluene			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2,6-Dinitrotoluene			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
2-Chloronaphthalene			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
2-Chlorophenol			440 U	110 UJ	430 U	70 U	160 U	400 U	**71** J	**51** J	180 U	360 U	120 UJ	**180**	89 U	72 U	240 U
2-Methylnaphthalene	670	670	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
2-Methylphenol[a]	63	63	2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
2-Nitrophenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
3,3'-Dichlorobenzidine			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
3-Nitroaniline			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	470 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
4,6-Dinitro-2-methylphenol			4,400 U	1,100 UJ	4,300 U	700 U	1,600 U	4,000 U	780 U	880 U	1,800 U	3,600 U	1,200 UJ	1,700 U	890 U	720 U	2,400 U
4-Bromophenyl-phenylether			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
4-Chloro-3-methylphenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	160 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
4-Chloroaniline			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	240 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
4-Chlorophenyl-phenylether			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
4-Methylphenol[a]	670	670	**1,400**	**2,200** J	**2,600**	**530**	**1,100**	**2,700**	**870**	**460**	**24,000**	**530**	**8,400** J	170 U	**240**	**69** J	240 U
4-Nitroaniline			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
4-Nitrophenol			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
Benzoic acid[a]	650	650	4,400 U	1,100 UJ	4,300 UJ	700 U	1,600 U	4,000 U	780 U	880 U	1,400 J	3,600 U	1,200 UJ	1,700 U	890 U	720 U	2,400 U
Benzyl alcohol[a]	57	73	440 U	110 UJ	430 U	70 U	160 U	400 U	**470**	**220**	180 U	360 U	**140** J	170 U	89 U	72 U	240 U
bis(2-Chloroethoxy) methane			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Bis-(2-chloroethyl) ether			440 U	110 UJ	430 U	70 U	160 U	400 U	160 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Carbazole			**1,000**	**230** J	**490**	**650**	**1,000**	**560**	78 U	**100**	180 U	360 U	**110** J	170 U	**94**	72 U	240 U
Dibenzofuran	540	540	440 U	110 UJ	430 U	**71**	**150** J	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Hexachlorobenzene	22	70	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Hexachlorobutadiene	11	120	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Hexachlorocyclopentadiene			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
Hexachloroethane			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Isophorone			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Nitrobenzene			440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
n-Nitroso-di-n-propylamine			2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	160 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
N-Nitrosodiphenylamine	28	40	440 U	110 UJ	430 U	70 U	160 U	400 U	78 U	88 U	180 U	360 U	120 UJ	170 U	89 U	72 U	240 U
Pentachlorophenol[a]	360	690	2,200 U	550 UJ	2,200 U	350 U	780 U	2,000 U	390 U	440 U	880 U	1,800 U	600 UJ	850 U	450 U	360 U	1,200 U
Phenol[a]	420	1,200	440 U	160 UJ	430 U	72 U	160 U	**330** J	**60** J	**99**	**1,100**	360 U	810 UJ	170 U	89 U	72 U	240 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A
Boeing Structure #			MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH492	MH492	MH492	MH492	MH492
Round			1	2	3	4	5a	5b	6	7A	7B	8	9	1	2	3	4	5
Lab Ref														IJ98	JD97	KA06	KL30	LA29
Date removed			08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/06/06	01/09/07	05/17/07
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	SPU	SPU	SPU	SPU	SPU
Total solids			72.8 J	71.3 J	37.60	75.0	NA	NA	67.70	NA	49.60	NA	59.5	NA	NA	70.1	NA	NA
TOC (%)			4.29	7.86	NA	3.45	NA	NA	3.83	NA	3.98	NA	5.65	NA	NA	1.15	NA	NA
Metals (mg/kg dw)																		
Arsenic	57	93	**11** J	**10**	**30**	**9**	**20**	**6** W	**19**	**10**	9 U	NA	**15**	NA	NA	7 U	NA	NA
Copper	390	390	**83.6** J	**110**	**325**	**133**	**123**	**79.3** W	**80.1**	**142**	**168**	NA	**140**	NA	NA	**33.9**	NA	NA
Lead	450	530	**140** J	**97** J	**216**	**159**	**227**	**84** W	**90**	**190**	**215**	NA	**309**	NA	NA	**41**	NA	NA
Mercury	0.41	0.59	**1.10** J	**0.93** J	**8.3**	**3.65**	**2.66**	**1.16** JW	**0.43**	**2.64**	**0.33**	NA	**0.36**	NA	NA	0.06 U	NA	NA
Zinc	410	960	**368** J	**435**	**1,140**	**382**	**474**	**313** W	**717**	**563**	**518**	NA	**554**	NA	NA	**137**	NA	NA
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		**230**	**490**	NA	**350**	NA	NA	**300**	99 UW	**71** W	NA	**100**	NA	NA	**120**	NA	NA
TPH-oil	2,000[b]		**970**	**1,800**	NA	**930**	NA	NA	**1,100**	**470** W	**450** W	NA	**720**	NA	NA	**440**	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**210**	340 U	240 U	**90**	480 U	87 UJW	**370**	200 UW	82 UW	330 UW	**200** J	NA	NA	**570**	NA	NA
Acenaphthylene	1,300	1,300	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Anthracene	960	960	**360**	**380**	290	**220**	480 U	**120** JW	**510**	200 UW	**85** W	330 UW	**560**	NA	NA	**830**	NA	NA
Fluorene	540	540	**190**	340 U	240 U	**130**	480 U	87 UJW	**490**	200 UW	82 UW	330 UW	**260**	NA	NA	**560**	NA	NA
Naphthalene	2,100	2,100	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Phenanthrene	1,500	1,500	**2,800**	**2,500**	**2,900**	**1,200**	**2,700**	**950** JW	**4,300**	**2,000** W	**770** W	**1,100** W	**4,000**	NA	NA	**6,200**	NA	NA
Total LPAH	5,200	5,200	**3,560**	**2,880**	**3,190**	**1,640**	**2,700**	**1,418** JW	**5,830**	**3,000** W	**1,183** W	**2,750** W	**5,020**	NA	NA	**8,160**	NA	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**1,400**	**1,800**	**1,600**	**1,100**	**1,900**	**570** JW	**1,600**	**860** W	**540** W	**820** W	**3,100**	NA	NA	**2,600**	NA	NA
Benzo(a)pyrene	1,600	1,600	**1,700**	**2,000**	**2,800**	**1,400**	**2,600**	**830** JW	**1,900**	**1,100** W	**760** W	**1,300** W	**4,600**	NA	NA	**4,200**	NA	NA
Benzo(b)fluoranthene	3,200	3,200	**2,400**	**2,400**	**3,200**	**1,700**	**3,600**	**1,600** JW	**2,500**	**1,600** W	**840** W	**1,400** W	**4,300**	NA	NA	**6,900**	NA	NA
Benzo(g,h,i)perylene	670	720	**720**	**890**	**2,000**	**530**	**1,300**	**120** JW	**1,300**	**1,100** W	**600** W	**1,200** W	**3,600**	NA	NA	**1,800**	NA	NA
Benzo(k)fluoranthene	3,200	3,200	**1,300**	**2,300**	**4,100**	**1,600**	**3,400**	**1,100** JW	**1,800**	**1,100** W	**920** W	**1,500** W	**4,300**	NA	NA	**4,900**	NA	NA
Chrysene	1,400	2,800	**1,900**	**2,700**	**4,300**	**1,600**	**3,000**	**1,200** JW	**2,500**	**1,600** W	**970** W	**1,500** W	**5,100**	NA	NA	**5,500**	NA	NA
Dibenz(a,h)anthracene	230	230	**260**	340 U	**700**	**120**	480 U	87 UJW	**490**	**230** W	**200** W	**340** W	**1,300**	NA	NA	**780**	NA	NA
Fluoranthene	1,700	2,500	**4,100**	**6,600**	**7,700**	**2,400**	**5,800**	**2,200** JW	**5,600**	**3,400** W	**1,900** W	**2,500** W	**9,900**	NA	NA	**12,000**	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	**810**	**930**	**2,000**	**530**	**1,300**	**300** JW	**1,200**	**940** W	**560** W	**1,000** W	**3,100**	NA	NA	**2,000**	NA	NA
Pyrene	2,600	3,300	**3,000**	**3,400**	**4,700**	**2,100**	**3,900**	**1,700** JW	**3,800**	**2,600** W	**1,200** W	**1,900** W	**5,400**	NA	NA	**7,000**	NA	NA
Total HPAH	12,000	17,000	**17,590**	**23,020**	**33,100**	**13,080**	**26,800**	**9,707** JW	**22,690**	**14,530** W	**8,490** W	**13,460** W	**44,700**	NA	NA	**47,680**	NA	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**2,400**	**2,600**	**10,000**	**1,200**	**9,800**	**2,900** JW	**2,200**	**1,700** W	**2,300** W	**7,300** W	**7,400**	NA	NA	**4,100**	NA	NA
Butylbenzylphthalate	63	900	**120**	340 U	**1,200**	79 U	480 U	**390** JW	**430**	**480** W	**100** W	**240** JW	**330**	NA	NA	**500**	NA	NA
Diethylphthalate	200		100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Dimethylphthalate	71	160	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Di-n-butylphthalate	1,400	1,400	**130**	**360**	240 U	250 Y	480 U	**220** JW	**200**	200 UW	82 UW	330 UW	**6,900**	NA	NA	250 U	NA	NA
Di-n-octyl phthalate	6,200		**440**	**1,000**	**1,500**	**240**	**2,700**	**980** JW	**470**	**550** W	**440** W	**1,900** W	**1,900**	NA	NA	**190**	NA	NA
PCBs (ug/kg dw)																		
Aroclor 1016			29 U	6,200 U	21,000 U	51,000 Y	87,000 U	4,700 UW	3,100 U	740 UW	2,200 UW	250 UW	160 U	48 U	65 U	20 R	33 U	76 U
Aroclor 1221			29 U	6,200 U	21,000 U	26,000 Y	87,000 U	4,700 UW	3,100 U	740 UW	2,200 UW	250 UW	160 U	48 U	65 U	20 R	65 Y	76 U
Aroclor 1232			29 U	6,200 U	21,000 U	51,000 Y	87,000 U	4,700 UW	3,100 U	740 UW	2,200 UW	380 UW	160 U	48 U	65 U	20 R	65 Y	76 U
Aroclor 1242			29 U	6,200 U	21,000 U	51,000 Y	87,000 U	4,700 UW	3,100 U	740 UW	2,200 UW	**680** W	160 U	48 U	65 U	20 R	33 U	76 U
Aroclor 1248			29 U	**41,000**	110,000 U	100,000 Y	**240,000**	**12,000** W	3,100 U	3,700 UY	4,400 UY	250 UW	1,600 U	48 U	84 Y	20 R	49 Y	76 U
Aroclor 1254			**10,000**	**55,000**	**110,000**	**260,000**	**180,000**	**9,800** W	**7,600**	**10,000** W	**19,000** W	250 UW	**3,400**	**67**	**190**	20 R	**150**	**120**
Aroclor 1260			1,200 U	**11,000**	21,000 U	51,000 Y	87,000 U	4,700 UW	3,100 U	990 UY	2,200 UW	250 UW	**550**	**110**	**190**	20 R	**130**	**110**
Total PCBs	130	1,000	**10,000**	**107,000**	**110,000**	**260,000**	**420,000**	**21,800** W	**7,600**	**10,000** W	**19,000** W	**680** W	**3,950**	**177**	**380**	20 R	**280**	**230**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
1,2-Dichlorobenzene	35	50	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
1,3-Dichlorobenzene			100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
1,4-Dichlorobenzene	110	110	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
1-Methylnaphthalene													200 U					
2,2'-Oxybis(1-chloropropane)			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
2,4,5-Trichlorophenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
2,4,6-Trichlorophenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
2,4-Dichlorophenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T1	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A
Boeing Structure #			MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH422	MH492	MH492	MH492	MH492	MH492
Round			1	2	3	4	5a	5b	6	7A	7B	8	9	1	2	3	4	5
Lab Ref														IJ98	JD97	KA06	KL30	LA29
Date removed			08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/06/06	01/09/07	05/17/07
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	SPU	SPU	SPU	SPU	SPU
2,4-Dimethylphenol[a]	29	29	100 U	340 U	240 U	**210**	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
2,4-Dinitrophenol			1,000 U	3,400 U	NA	NA	NA	870 UJW	NA	NA	820 UW	NA	NA	NA	NA	1,800 U	NA	NA
2,4-Dinitrotoluene			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
2,6-Dinitrotoluene			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
2-Chloronaphthalene			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
2-Chlorophenol			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
2-Methylnaphthalene	670	670	**120**	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	**360**	NA	NA
2-Methylphenol[a]	63	63	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
2-Nitroaniline			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
2-Nitrophenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
3,3'-Dichlorobenzidine			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
3-Nitroaniline			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
4,6-Dinitro-2-methylphenol			1,000 U	3,400 U	NA	NA	NA	870 UJW	NA	NA	820 UW	NA	NA	NA	NA	1,800 U	NA	NA
4-Bromophenyl-phenylether			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
4-Chloro-3-methylphenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
4-Chloroaniline			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
4-Chlorophenyl-phenylether			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
4-Methylphenol[a]	670	670	100 U	340 U	**420**	**170**	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	**820**	NA	NA
4-Nitroaniline			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
4-Nitrophenol			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
Benzoic acid[a]	650	650	1,000 U	3,400 U	2,400 U	790 U	4,800 U	870 UJW	1,600 U	2,000 UW	**2,600** W	3,300 UW	2,000 U	NA	NA	1,800 U	NA	NA
Benzyl alcohol[a]	57	73	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	**200** W	330 UW	200 U	NA	NA	180 U	NA	NA
bis(2-Chloroethoxy) methane			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
Bis-(2-chloroethyl) ether			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
Carbazole			**390**	**480**	NA	NA	NA	**240** JW	NA	NA	**210** W	NA	NA	NA	NA	**1,300**	NA	NA
Dibenzofuran	540	540	**150**	340 U	240 U	79 U	480 U	87 UJW	**260**	200 UW	82 UW	330 UW	240	NA	NA	**490**	NA	NA
Hexachlorobenzene	22	70	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Hexachlorobutadiene	11	120	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 U	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Hexachlorocyclopentadiene			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
Hexachloroethane			100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Isophorone			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
Nitrobenzene			100 U	340 U	NA	NA	NA	87 UJW	NA	NA	82 UW	NA	NA	NA	NA	180 U	NA	NA
n-Nitroso-di-n-propylamine			510 U	1,700 U	NA	NA	NA	430 UJW	NA	NA	410 UW	NA	NA	NA	NA	910 U	NA	NA
N-Nitrosodiphenylamine	28	40	100 U	340 U	240 U	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	180 U	NA	NA
Pentachlorophenol[a]	360	690	510 U	1,700 U	1,200 U	400 U	2,400 U	430 UJW	770 U	1,000 UW	410 UW	1,700 UW	1,000 U	NA	NA	910 U	NA	NA
Phenol[a]	420	1,200	100 U	340 U	**260**	79 U	480 U	87 UJW	160 U	200 UW	82 UW	330 UW	200 U	NA	NA	670 U	NA	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2
Boeing Structure #			**MH492**	**MH492**	**MH492**	**MH492**	**MH492**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**
Round			6	7	8	9	10	1	2	3	4	5a	5b	6	7A	7B	8	9
Lab Ref			MN86	NJ12	OU68	PR80	QU69											
Date removed			03/18/08	08/05/08	04/07/09	10/07/09	04/29/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10
Sampled by			SPU	SPU	SPU	SPU	SPU	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
Total solids			30.6	NA	30.2	39.5	NA	NA	NA	8.93	NA	NA	NA	NA	NA	NA	NA	25.00
TOC (%)			16.10	NA	NA	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg dw)																		
Arsenic	57	93	**8.7**	NA	20 UJ	10 UJ	20 U	NA	NA	50 U	NA	NA	5 UW	NA	NA	NA	NA	NA
Copper	390	390	**263**	NA	**211** J	**216** J	**190**	NA	NA	**276**	NA	NA	**40.9** W	NA	NA	NA	NA	NA
Lead	450	530	**424**	NA	**275** J	**311** J	**246**	NA	NA	**300**	NA	NA	**43** W	NA	NA	NA	NA	NA
Mercury	0.41	0.59	**0.30**	NA	**0.20** J	**0.25** J	**0.24**	NA	NA	**0.6**	NA	NA	**0.08** W	NA	NA	NA	NA	NA
Zinc	410	960	**1,280**	NA	**1,140** J	**1,200** J	**1,070**	NA	NA	**1,560**	NA	NA	**222** W	NA	NA	NA	NA	NA
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-oil	2,000[b]		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**380** W	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	**430** J
Acenaphthylene	1,300	1,300	**120** JW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Anthracene	960	960	**1,100** W	NA	NA	NA	**2,700**	NA	**1,700**	NA	NA	NA	NA	NA	NA	88 UW	NA	**1,300**
Fluorene	540	540	**470** W	NA	NA	NA	**1,600**	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	**570**
Naphthalene	2,100	2,100	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Phenanthrene	1,500	1,500	**9,200** W	NA	NA	NA	**27,000**	NA	**15,000**	NA	NA	NA	NA	NA	NA	**390** W	NA	**11,000**
Total LPAH	5,200	5,200	**11,500** W	NA	NA	NA	**31,300**	NA	**16,700**	NA	NA	NA	NA	NA	NA	**830** W	NA	**13,300**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	6,100 RW	NA	NA	NA	**20,000**	NA	**11,000**	NA	NA	NA	NA	NA	NA	**330** W	NA	**7,200**
Benzo(a)pyrene	1,600	1,600	**8,300** W	NA	NA	NA	**29,000**	NA	**15,000**	NA	NA	NA	NA	NA	NA	**520** W	NA	**12,000**
Benzo(b)fluoranthene	3,200	3,200	**15,000** W	NA	NA	NA	**38,000**	NA	**26,000**	NA	NA	NA	NA	NA	NA	**820** W	NA	**13,000**
Benzo(g,h,i)perylene	670	720	**3,800** W	NA	NA	NA	**24,000**	NA	**9,000**	NA	NA	NA	NA	NA	NA	**600** W	NA	**9,400**
Benzo(k)fluoranthene	3,200	3,200	**8,500** W	NA	NA	NA	**38,000** J	NA	**17,000**	NA	NA	NA	NA	NA	NA	**860** W	NA	**13,000**
Chrysene	1,400	2,800	13,000 RW	NA	NA	NA	**45,000**	NA	**23,000**	NA	NA	NA	NA	NA	NA	**850** W	NA	**16,000**
Dibenz(a,h)anthracene	230	230	**1,100** W	NA	NA	NA	**9,900**	NA	**2,100**	NA	NA	NA	NA	NA	NA	88 UW	NA	**3,500**
Fluoranthene	1,700	2,500	20,000 RW	NA	NA	NA	**100,000**	NA	**45,000**	NA	NA	NA	NA	NA	NA	**1,100** W	NA	**28,000**
Indeno(1,2,3-cd)pyrene	600	690	**4,100** W	NA	NA	NA	**26,000**	NA	**9,200**	NA	NA	NA	NA	NA	NA	**530** W	NA	**8,500**
Pyrene	2,600	3,300	12,000 RW	NA	NA	NA	**33,000**	NA	**23,000**	NA	NA	NA	NA	NA	NA	**810** W	NA	**15,000**
Total HPAH	12,000	17,000	**91,900** W	NA	NA	NA	**362,900**	NA	**180,300**	NA	NA	NA	NA	NA	NA	**6,508** W	NA	**125,600**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**11,000** W	NA	NA	NA	**48,000**	NA	**34,000**	NA	NA	NA	NA	NA	NA	**1,500** W	NA	**19,000**
Butylbenzylphthalate	63	900	450 RW	NA	NA	NA	**1,100**	NA	**1,600**	NA	NA	NA	NA	NA	NA	88 UW	NA	**530**
Diethylphthalate	200		230 UW	NA	NA	NA	930 UJ	NA	1,300 U	NA	NA	NA	NA	NA	NA	100 UW	NA	470 U
Dimethylphthalate	71	160	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Di-n-butylphthalate	1,400	1,400	**230** W	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	**1,600**
Di-n-octyl phthalate	6,200		**500** W	NA	NA	NA	930 U	NA	**9,800**	NA	NA	NA	NA	NA	NA	**280** W	NA	**27,000**
PCBs (ug/kg dw)																		
Aroclor 1016			970 UW	75 U	82 U	25 U	43 U	21 U	210 U	300 U	67 U	19 U	35 UW	13 UW	24 UW	9.9 UW	34 UW	79 U
Aroclor 1221			970 UW	75 U	82 U	25 U	43 U	21 U	210 U	75 U	67 U	19 U	35 UW	13 UW	24 UW	9.9 UW	34 UW	79 U
Aroclor 1232			970 UW	75 U	82 U	25 U	43 U	21 U	210 U	380 U	67 U	19 U	35 UW	13 UW	24 UW	9.9 UW	34 UW	79 U
Aroclor 1242			970 UW	75 U	82 U	25 U	43 U	21 U	210 U	230 U	67 U	19 U	35 UW	13 UW	24 UW	9.9 UW	**48** W	79 U
Aroclor 1248			970 UW	75 U	82 U	**26**	110 Y	21 U	210 U	300 U	67 U	19 U	35 UW	19 UW	24 UW	9.9 UW	34 UW	120 U
Aroclor 1254			970 UW	**170** J	**110**	**65**	**320**	**500** P	**890**	**760**	**180**	**70**	**90** W	**47** W	**24** W	**10** W	34 UW	**260**
Aroclor 1260			970 UW	**190** J	**86**	**88**	**130**	**340**	**570**	**470**	**140**	**58**	**43** W	**38** W	24 UW	9.9 UW	34 UW	**200**
Total PCBs	130	1,000	970 UW	**360** J	**196**	**179**	**450**	**840** P	**1,460**	**1,230**	**320**	**128**	**133** W	**85** W	**24** W	**10** W	**48** W	**460**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
1,2-Dichlorobenzene	35	50	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
1,3-Dichlorobenzene			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
1,4-Dichlorobenzene	110	110	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
1-Methylnaphthalene							**4,200** NJ											470 U
2,2'-Oxybis(1-chloropropane)			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
2,4,5-Trichlorophenol			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
2,4,6-Trichlorophenol			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
2,4-Dichlorophenol			1,100 UW	NA	NA	NA	4,600 UJ	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2A	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2	SL4-T2
Boeing Structure #			**MH492**	**MH492**	**MH492**	**MH492**	**MH492**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**	**MH356**
Round			6	7	8	9	10	1	2	3	4	5a	5b	6	7A	7B	8	9
Lab Ref			MN86	NJ12	OU68	PR80	QU69											
Date removed			03/18/08	08/05/08	04/07/09	10/07/09	04/29/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10
Sampled by			SPU	SPU	SPU	SPU	SPU	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
2,4-Dimethylphenol[a]	29	29	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
2,4-Dinitrophenol			2,300 UW	NA	NA	NA	9,300 U	NA	13,000 U	NA	NA	NA	NA	NA	NA	880 UW	NA	NA
2,4-Dinitrotoluene			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
2,6-Dinitrotoluene			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
2-Chloronaphthalene			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
2-Chlorophenol			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
2-Methylnaphthalene	670	670	230 UW	NA	NA	NA	**4,800**	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
2-Methylphenol[a]	63	63	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
2-Nitroaniline			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
2-Nitrophenol			1,100 UW	NA	NA	NA	930 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
3,3'-Dichlorobenzidine			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
3-Nitroaniline			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
4,6-Dinitro-2-methylphenol			2,300 UW	NA	NA	NA	9,300 U	NA	13,000 U	NA	NA	NA	NA	NA	NA	880 UW	NA	NA
4-Bromophenyl-phenylether			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
4-Chloro-3-methylphenol			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
4-Chloroaniline			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
4-Chlorophenyl-phenylether			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
4-Methylphenol[a]	670	670	**400** W	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
4-Nitroaniline			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
4-Nitrophenol			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
Benzoic acid[a]	650	650	2,300 UW	NA	NA	NA	9,300 U	NA	13,000 U	NA	NA	NA	NA	NA	NA	880 UW	NA	4,700 U
Benzyl alcohol[a]	57	73	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
bis(2-Chloroethoxy) methane			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
Bis-(2-chloroethyl) ether			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
Carbazole			**2,800** W	NA	NA	NA	**8,200**	NA	**3,600**	NA	NA	NA	NA	NA	NA	**100** W	NA	NA
Dibenzofuran	540	540	**390** W	NA	NA	NA	**1,300**	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	430 J
Hexachlorobenzene	22	70	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Hexachlorobutadiene	11	120	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Hexachlorocyclopentadiene			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
Hexachloroethane			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Isophorone			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
Nitrobenzene			230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	NA
n-Nitroso-di-n-propylamine			1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	NA
N-Nitrosodiphenylamine	28	40	230 UW	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U
Pentachlorophenol[a]	360	690	1,100 UW	NA	NA	NA	4,600 U	NA	6,600 U	NA	NA	NA	NA	NA	NA	440 UW	NA	2,300 U
Phenol[a]	420	1,200	**540** W	NA	NA	NA	930 U	NA	1,300 U	NA	NA	NA	NA	NA	NA	88 UW	NA	470 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3
Boeing Structure #			MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	CB364	CB364	CB364	CB364	CB364	CB364
Round			1	2	3	4	5	6	7	8	9	10	1	2	3	4	5a	5b
Lab Ref			IJ98	JD97	KA06	KL30	LA29	MN86	NJ12	OU68	PR80	QU69						
Date removed			08/11/05	03/16/06	10/06/06	01/09/07	05/17/07	03/18/08	08/05/08	04/07/09	10/07/09	04/29/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07
Sampled by			SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
Total solids			NA	49.7	NA	50.6	35.4	NA	74.7	NA	NA	NA	NA	13.4 J	4.93	40.8	NA	NA
TOC (%)			NA	11.80	NA	4.84	6.77	NA	5.92	NA	NA	NA	NA	5.80	NA	2.38	NA	NA
Metals (mg/kg dw)																		
Arsenic	57	93	NA	**12**	20 U	NA	20 U	10 U	30 U	**20** J	30 UJ	10 U	NA	30 U	100 U	10 U	NA	5 UW
Copper	390	390	NA	**142**	**282**	NA	**121**	**117**	**86**	**63** J	**56** J	**48**	NA	**99**	**106**	**72.2**	NA	**4.3** W
Lead	450	530	NA	**740**	**1,070**	NA	**787**	**405**	**250**	**64** J	**60** J	**31**	NA	**120**	**100**	**97**	NA	**4** W
Mercury	0.41	0.59	NA	**0.16**	0.2 U	NA	0.10 U	**0.10**	0.09 U	0.20 UJ	0.06 UJ	0.05 U	NA	**0.3**	0.7 U	0.09 U	NA	0.03 UW
Zinc	410	960	NA	**276**	**418**	NA	**289**	**241**	**179**	**162** J	**163** J	**91**	NA	**448**	**660**	**293**	NA	**30** W
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		NA	**410**	NA	NA	NA	NA	**420**	NA	NA	NA	NA	**320**	NA	NA	NA	NA
TPH-oil	2,000[b]		NA	**2,700**	NA	NA	NA	NA	**5,300**	NA	NA	NA	NA	**1,200**	NA	NA	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500	NA	**370** J	**83**	**76** J	NA	**100** J	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Acenaphthylene	1,300	1,300	NA	660 U	**34**	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Anthracene	960	960	NA	**690**	**230**	**220**	NA	**320**	270 U	NA	NA	**130**	NA	530 U	NA	480 U	NA	NA
Fluorene	540	540	NA	**420** J	**100**	**110** J	NA	**150** J	270 U	NA	NA	**60** J	NA	530 U	NA	480 U	NA	NA
Naphthalene	2,100	2,100	NA	660 U	**37**	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Phenanthrene	1,500	1,500	NA	**6,000**	**1,800**	**1,700**	NA	**2,700**	**1,300**	NA	NA	**1,500**	NA	**1,800**	NA	**2,000**	NA	NA
Total LPAH	5,200	5,200	NA	**7,480** J	**2,284**	**2,106** J	NA	**3,270** J	**1,300**	NA	NA	**1,690**	NA	**1,800**	NA	**2,000**	NA	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	NA	**3,600**	**1,100**	**1,100**	NA	**1,800**	**820**	NA	NA	**1,000**	NA	**1,200**	NA	**1,300**	NA	NA
Benzo(a)pyrene	1,600	1,600	NA	**4,600**	**1,500**	**1,600**	NA	**2,600**	**1,300**	NA	NA	**1,700**	NA	**1,500**	NA	**1,900**	NA	NA
Benzo(b)fluoranthene	3,200	3,200	NA	**7,400**	**2,100**	**3,400**	NA	**5,000**	**1,800**	NA	NA	**2,300**	NA	**2,600**	NA	**3,000**	NA	NA
Benzo(g,h,i)perylene	670	720	NA	**2,200** J	**510**	**880**	NA	**1,000**	**880**	NA	NA	**1,800**	NA	**950**	NA	**1,500**	NA	NA
Benzo(k)fluoranthene	3,200	3,200	NA	**5,100**	**1,200**	**1,100**	NA	**3,300**	**2,000**	NA	NA	**2,300** J	NA	**1,700**	NA	**1,700**	NA	NA
Chrysene	1,400	2,800	NA	**6,800**	**2,100**	**2,100**	NA	**4,200**	**2,200**	NA	NA	**2,400**	NA	**2,600**	NA	**2,600**	NA	NA
Dibenz(a,h)anthracene	230	230	NA	**600**	**250**	**170**	NA	**320**	270 U	NA	NA	**600**	NA	530 U	NA	480 U	NA	NA
Fluoranthene	1,700	2,500	NA	**12,000**	**3,700**	**4,000**	NA	**7,400**	**2,700**	NA	NA	**3,800**	NA	**4,800**	NA	**4,700**	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	NA	**2,500**	**580**	**1,100**	NA	**1,300**	**840**	NA	NA	**1,700**	NA	**930**	NA	**1,400**	NA	NA
Pyrene	2,600	3,300	NA	**8,400**	**2,600**	**2,400**	NA	**4,200**	**2,200**	NA	NA	**2,000**	NA	**2,700**	NA	**2,900**	NA	NA
Total HPAH	12,000	17,000	NA	**53,200** J	**15,640**	**17,850**	NA	**31,120**	**14,740**	NA	NA	**19,600**	NA	**18,980**		**21,000**	NA	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	NA	**3,800**	**670**	**800**	NA	**2,900**	**3,800**	NA	NA	**1,600**	NA	**4,800**	NA	**3,600**	NA	NA
Butylbenzylphthalate	63	900	NA	**540** J	**62**	**140**	NA	**170** J	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Diethylphthalate	200		NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 UJ	NA	530 U	NA	480 U	NA	NA
Dimethylphthalate	71	160	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Di-n-butylphthalate	1,400	1,400	NA	660 U	110 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Di-n-octyl phthalate	6,200		NA	660 U	**44**	130 U	NA	**100** J	270 U	NA	NA	110 U	NA	**23,000**	NA	**11,000**	NA	NA
PCBs (ug/kg dw)																		
Aroclor 1016			34 U	20 U	NA	32 U	59 U	920 U	50 U	66 U	20 U	20 U	20 U	160 U	78 U	49 U	NA	34 UW
Aroclor 1221			34 U	20 U	NA	32 U	59 U	920 U	50 U	66 U	20 U	20 U	20 U	160 U	39 U	49 U	NA	34 UW
Aroclor 1232			34 U	20 U	NA	32 U	59 U	920 U	50 U	66 U	20 U	20 U	20 U	310 U	160 U	49 U	NA	34 UW
Aroclor 1242			34 U	20 U	NA	32 U	59 U	920 U	50 U	66 U	20 U	20 U	20 U	160 U	78 U	49 U	NA	34 UW
Aroclor 1248			34 U	20 U	NA	32 U	59 U	920 U	50 U	66 U	20 U	20 U	20 U	270 U	160 U	120 Y	NA	34 UW
Aroclor 1254			**38** J	**550**	NA	**100**	**78**	920 U	**140** J	**140**	20 U	20 U	**1,400**	**1,300**	**480**	**430**	NA	34 UW
Aroclor 1260			34 U	**180**	NA	**87**	59 U	920 U	**97** J	**85**	20 U	20 U	380 U	**510**	**150**	**140**	NA	34 UW
Total PCBs	130	1,000	**38 J**	**730**	NA	**187**	**78**	920 U	**237** J	**225**	20 U	20 U	**1,400**	**1,810**	**630**	**570**	NA	34 UW
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
1,2-Dichlorobenzene	35	50	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
1,3-Dichlorobenzene			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
1,4-Dichlorobenzene	110	110	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
1-Methylnaphthalene											NA	110 U						
2,2'-Oxybis(1-chloropropane)			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
2,4,5-Trichlorophenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
2,4-Dichlorophenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 UJ	NA	2,700 U	NA	NA	NA	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3A	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3
Boeing Structure #			MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	MH477	CB364	CB364	CB364	CB364	CB364	CB364
Round			1	2	3	4	5	6	7	8	9	10	1	2	3	4	5a	5b
Lab Ref			IJ98	JD97	KA06	KL30	LA29	MN86	NJ12	OU68	PR80	QU69						
Date removed			08/11/05	03/16/06	10/06/06	01/09/07	05/17/07	03/18/08	08/05/08	04/07/09	10/07/09	04/29/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07
Sampled by			SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
2,4-Dimethylphenol[a]	29	29	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
2,4-Dinitrophenol			NA	6,600 U	200 U	1,300 U	NA	2,000 U	2,700 U	NA	NA	1,100 U	NA	5,300 U	NA	NA	NA	NA
2,4-Dinitrotoluene			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
2,6-Dinitrotoluene			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
2-Chloronaphthalene			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
2-Chlorophenol			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
2-Methylnaphthalene	670	670	NA	660 U	**42**	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
2-Methylphenol[a]	63	63	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
2-Nitroaniline			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
2-Nitrophenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	110 U	NA	2,700 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	3,300 R	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
3-Nitroaniline			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	6,600 U	200 U	1,300 U	NA	2,000 U	2,700 U	NA	NA	1,100 U	NA	5,300 U	NA	NA	NA	NA
4-Bromophenyl-phenylether			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
4-Chloroaniline			NA	3,300 R	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
4-Chlorophenyl-phenylether			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
4-Methylphenol[a]	670	670	NA	**3,000**	**10** J	**310**	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
4-Nitroaniline			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
4-Nitrophenol			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
Benzoic acid[a]	650	650	NA	6,600 U	200 U	1,300 U	NA	2,000 U	2,700 U	NA	NA	**280** J	NA	5,300 U	NA	4,800 U	NA	NA
Benzyl alcohol[a]	57	73	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
bis(2-Chloroethoxy) methane			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
Bis-(2-chloroethyl) ether			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
Carbazole			NA	**1,400**	**340**	**540**	NA	**830**	**350**	NA	NA	**460**	NA	530 U	NA	NA	NA	NA
Dibenzofuran	540	540	NA	660 U	**76**	130 U	NA	130 J	270 U	NA	NA	**64** J	NA	530 U	NA	480 U	NA	NA
Hexachlorobenzene	22	70	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Hexachlorobutadiene	11	120	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Hexachlorocyclopentadiene			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
Hexachloroethane			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Isophorone			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
Nitrobenzene			NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	NA	NA	NA
n-Nitroso-di-n-propylamine			NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	28	40	NA	660 U	20 U	130 U	NA	200 U	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA
Pentachlorophenol[a]	360	690	NA	3,300 U	99 U	670 U	NA	990 U	1,300 U	NA	NA	560 U	NA	2,700 U	NA	2,400 U	NA	NA
Phenol[a]	420	1,200	NA	660 U	**40** B	130 U	NA	**210**	270 U	NA	NA	110 U	NA	530 U	NA	480 U	NA	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A
Boeing Structure #			CB364	CB364	CB364	CB364	CB364	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A
Round			6	7A	7B	8	9	1	2	3	4	5a	5b	6	7A	7B	8	9
Lab Ref																		
Date removed			03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
Total solids			NA	NA	NA	NA	17.50	47.3 J	NA	27.8	50.5	NA	NA	NA	NA	NA	NA	62.10
TOC (%)			NA	NA	NA	NA	NA	5.35	NA	NA	4.06	NA	NA	NA	NA	NA	NA	9.17
Metals (mg/kg dw)																		
Arsenic	57	93	NA	NA	NA	NA	NA	**16**	NA	**20**	**12**	NA	**6** W	NA	NA	NA	NA	**14**
Copper	390	390	NA	NA	NA	NA	NA	**94.3**	NA	**262**	**76**	NA	**61.0** W	NA	NA	NA	NA	**248** J
Lead	450	530	NA	NA	NA	NA	NA	**144**	NA	**414**	**121**	NA	**77** W	NA	NA	NA	NA	**376** J
Mercury	0.41	0.59	NA	NA	NA	NA	NA	**0.19**	NA	**0.3**	**0.09**	NA	**0.07** W	NA	NA	NA	NA	**0.23**
Zinc	410	960	NA	NA	NA	NA	NA	**460**	NA	**1,220**	**433**	NA	**309** W	NA	NA	NA	NA	**551**
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		NA	NA	NA	NA	NA	**100**	**180**	NA	**140**	NA	NA	NA	NA	NA	NA	**210**
TPH-oil	2,000[b]		NA	NA	NA	NA	NA	**410**	**1,100**	NA	**600**	NA	NA	NA	NA	NA	NA	**1,400**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	**170** J
Acenaphthylene	1,300	1,300	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Anthracene	960	960	**63** W	NA	82 UW	NA	180 U	**180**	600 U	NA	**210**	NA	NA	**120** W	530 UW	NA	500 UW	**680**
Fluorene	540	540	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	**260**
Naphthalene	2,100	2,100	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Phenanthrene	1,500	1,500	**300** W	NA	82 UW	NA	**760**	**1,700**	**1,600**	NA	**1,400**	NA	NA	**800** W	**1,000** W	NA	**2,300** W	**4,900**
Total LPAH	5,200	5,200	**599** W	NA	492 UW	NA	**760**	**1,880**	**1,600**	NA	**1,610**	NA	NA	**1,164** W	**3,650** W	NA	**4,800** W	**6,010**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**210** W	NA	82 UW	NA	**440**	**860**	**1,000**	NA	**920**	NA	NA	**460** W	**630** W	NA	**1,100** W	**3,900**
Benzo(a)pyrene	1,600	1,600	**310** W	NA	82 UW	NA	**670**	**1,400**	**1,600**	NA	**1,500**	NA	NA	**730** W	**1,200** W	NA	**2,100** W	**5,700**
Benzo(b)fluoranthene	3,200	3,200	**500** W	NA	82 UW	NA	**810**	**2,100**	**2,500**	NA	**2,300**	NA	NA	**1,200** W	**2,000** W	NA	**2,600** W	**5,500**
Benzo(g,h,i)perylene	670	720	**220** W	NA	82 UW	NA	**550**	**710**	**900**	NA	**690**	NA	NA	**590** W	**1,200** W	NA	**2,300** W	**2,900**
Benzo(k)fluoranthene	3,200	3,200	**240** W	NA	82 UW	NA	**810**	**1,300**	**1,900**	NA	**2,500**	NA	NA	**1,000** W	**1,400** W	NA	**3,500** W	**5,500**
Chrysene	1,400	2,800	**390** W	NA	**84** W	NA	**1,100**	**1,700**	**2,500**	NA	**2,000**	NA	NA	**1,100** W	**1,600** W	NA	**3,300** W	**6,500**
Dibenz(a,h)anthracene	230	230	**60** W	NA	82 UW	NA	**180** J	160 U	600 U	NA	160 U	NA	NA	**220** W	530 UW	NA	**320** JW	**1,200**
Fluoranthene	1,700	2,500	**690** W	NA	**100** W	NA	**1,800**	**3,100**	**4,200**	NA	**3,200**	NA	NA	**1,800** W	**2,500** W	NA	**4,800** W	**13,000**
Indeno(1,2,3-cd)pyrene	600	690	**220** W	NA	82 UW	NA	**480**	**780**	**960**	NA	**670**	NA	NA	**560** W	**1,200** W	NA	**2,100** W	**2,800**
Pyrene	2,600	3,300	**480** W	NA	**90** W	NA	**1,100**	**2,100**	**2,400**	NA	**2,300**	NA	NA	**1,200** W	**2,000** W	NA	**3,900** W	**7,100**
Total HPAH	12,000	17,000	**3,320** W	NA	**848** W	NA	**7,940**	**14,050**	**17,960**	NA	**16,080**	NA	NA	**8,860** W	**14,260** W	NA	**26,020** JW	**54,100**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**490** W	NA	**340** W	NA	**4,000**	**2,600**	**2,600**	NA	**3,700**	NA	NA	**1,400** W	**1,700** W	NA	**2,500** W	**6,000**
Butylbenzylphthalate	63	900	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	**220**	NA	NA	**76** W	530 UW	NA	500 UW	**630**
Diethylphthalate	200		59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Dimethylphthalate	71	160	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Di-n-butylphthalate	1,400	1,400	59 UW	NA	82 UW	NA	**660**	**350**	600 U	NA	**240**	NA	NA	**130** W	530 UW	NA	**420** JW	**320**
Di-n-octyl phthalate	6,200		**1,600** W	NA	**2,000** W	NA	**20,000**	**4,300**	**9,600**	NA	**7,200**	NA	NA	**2,600** W	**5,900** W	NA	**16,000** W	**1,200**
PCBs (ug/kg dw)																		
Aroclor 1016			10 UW	13 UW	10 UW	21 UW	110 U	10 U	10 U	81 U	10 U	NA	11 UW	10 UW	15 UW	11 UW	10 UW	53 U
Aroclor 1221			10 UW	13 UW	10 UW	21 UW	110 U	10 U	10 U	81 U	10 U	NA	11 UW	10 UW	15 UW	11 UW	10 UW	53 U
Aroclor 1232			10 UW	13 UW	10 UW	21 UW	110 U	10 U	10 U	81 U	10 U	NA	11 UW	10 UW	15 UW	11 UW	10 UW	53 U
Aroclor 1242			10 UW	13 UW	10 UW	21 UW	110 U	10 U	10 U	81 U	10 U	NA	11 UW	10 UW	15 UW	11 UW	10 UW	53 U
Aroclor 1248			20 UW	13 UW	10 UW	21 UW	110 U	10 U	10 U	81 U	10 U	NA	**22** W	10 UW	15 UW	11 UW	10 UW	270 U
Aroclor 1254			**65** W	**32** W	**26** W	**28** W	**250**	**290** P	**39**	**83**	**41**	NA	**49** W	**16** W	**28** W	11 UW	10 UW	**510**
Aroclor 1260			**25** W	13 UW	10 UW	21 UW	110 U	**160**	**75**	**160**	**62**	NA	**28** W	**26** W	**30** W	11 UW	10 UW	**170**
Total PCBs	130	1,000	**90** W	**32** W	**26** W	**28** W	**250**	**450** P	**114**	**243**	**103**	NA	**99** W	**42** W	**58** W	11 UW	10 UW	**680**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
1,2-Dichlorobenzene	35	50	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
1,3-Dichlorobenzene			59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
1,4-Dichlorobenzene	110	110	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
1-Methylnaphthalene			UW				180 U											250 U
2,2'-Oxybis(1-chloropropane)			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T3	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A	SL4-T4A
Boeing Structure #			CB364	CB364	CB364	CB364	CB364	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A	CB229A
Round			6	7A	7B	8	9	1	2	3	4	5a	5b	6	7A	7B	8	9
Lab Ref																		
Date removed			03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
2,4-Dimethylphenol[a]	29	29	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
2,4-Dinitrophenol			NA	NA	820 UW	NA	NA	1,600 U	6,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	670	670	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
2-Methylphenol[a]	63	63	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
2-Nitroaniline			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	820 UW	NA	NA	1,600 U	6,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol[a]	670	670	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	**380** JW	270
4-Nitroaniline			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid[a]	650	650	590 UW	NA	820 UW	NA	1,800 U	1,600 U	6,000 U	NA	1,600 U	NA	NA	610 UW	5,300 UW	NA	5,000 UW	2,500 U
Benzyl alcohol[a]	57	73	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
bis(2-Chloroethoxy) methane			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis-(2-chloroethyl) ether			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	82 UW	NA	NA	**370**	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	540	540	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	**200** J
Hexachlorobenzene	22	70	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Hexachlorobutadiene	11	120	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Hexachlorocyclopentadiene			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Isophorone			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene			NA	NA	82 UW	NA	NA	160 U	600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitroso-di-n-propylamine			NA	NA	410 UW	NA	NA	790 U	3,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	28	40	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U
Pentachlorophenol[a]	360	690	300 UW	NA	410 UW	NA	910 U	790 U	3,000 U	NA	810 U	NA	NA	300 UW	2,600 UW	NA	2,500 UW	1,300 U
Phenol[a]	420	1,200	59 UW	NA	82 UW	NA	180 U	160 U	600 U	NA	160 U	NA	NA	61 UW	530 UW	NA	500 UW	250 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A
Boeing Structure #			MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH178	MH178	MH178	MH178	MH178
Round			1	2	3	4	5a	5b	6	7A	7B	8	9	1	2	3	4	5a
Lab Ref																		
Date removed			08/11/05	03/15/06	10/11/06	01/08/07	05/17/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/06/06	01/08/07	05/14/07
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
Total solids			NA	41.6 J	16.2	42.3	NA	NA	50.40	NA	NA	NA	28.10	NA	50.8 J	39.20	69.9	45.40
TOC (%)			NA	5.41	NA	4.34	NA	NA	4.38	NA	NA	NA	12.1	NA	7.62	7.68	4.88	8.87
Metals (mg/kg dw)																		
Arsenic	57	93	NA	**20**	**70**	**10**	NA	**50**	**18**	NA	NA	5.0 UW	**30**	**14** J	**20**	NA	7 U	**20**
Copper	390	390	NA	**134**	**271**	**125**	NA	**329**	**85.8**	NA	NA	**61.4** W	**334**	**113** J	**541**	NA	**103**	**227**
Lead	450	530	NA	**190**	**330**	**175**	NA	**288**	**115**	NA	NA	**83** W	**382**	**962** J	**233**	NA	**100**	**194**
Mercury	0.41	0.59	NA	**0.40**	**0.6**	**0.40**	NA	**0.50**	**0.21**	NA	NA	**0.11** W	**0.37**	**0.86** J	**0.27**	NA	**0.15**	**0.38**
Zinc	410	960	NA	**733**	**2,460**	**828**	NA	**1,990**	**1,080**	NA	NA	**317** W	**1,880**	**220** J	**597**	NA	**209**	**464**
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		NA	**580**	NA	**1,200**	NA	NA	**100** W	NA	NA	**1,300** W	**380**	**160**	**1,400**	**660**	**340**	**770**
TPH-oil	2,000[b]		NA	**1,800**	NA	**1,300**	NA	NA	**420** W	NA	NA	**3,400** W	**1,900**	**570**	**7,500**	**4,800**	**1,600**	**6,800**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**1,300**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Acenaphthylene	1,300	1,300	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	NA
Anthracene	960	960	**1,500**	550 U	NA	**500**	NA	NA	98 UW	470 UW	260 UW	370 UW	**420**	**150**	680 U	380 U	**320**	370 U
Fluorene	540	540	**1,000**	550 U	NA	**340**	NA	NA	98 UW	470 UW	260 UW	370 UW	**240** J	110 U	680 U	380 U	170 U	370 U
Naphthalene	2,100	2,100	**670**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Phenanthrene	1,500	1,500	**8,600**	**2,800**	NA	**4,100**	NA	NA	**560** W	**820** W	**2,800** W	**1,800** W	**4,300**	**1,300**	**4,600**	**2,900**	**2,200**	**2,100**
Total LPAH	5,200	5,200	**13,070**	**2,800**	NA	**4,940**	NA	NA	**1,050** W	**3,170** W	**4,100** W	**3,650** W	**4,960** J	**1,450**	**4,600**	**2,900**	**2,520**	**2,100**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**3,000**	**1,600**	NA	**2,300**	NA	NA	**340** W	470 UW	**550** W	**700** W	**2,300**	**840**	**3,200**	**2,000**	**1,700**	**1,400**
Benzo(a)pyrene	1,600	1,600	**3,400**	**2,000**	NA	**3,300**	NA	NA	**600** W	**830** W	**920** W	**1,500** W	**4,200**	**1,100**	**4,500**	**3,000**	**2,300**	**2,200**
Benzo(b)fluoranthene	3,200	3,200	**4,600**	**2,800**	NA	**5,200**	NA	NA	**1,000** W	**1,400** W	**1,100** W	**2,200** W	**4,900**	**1,600**	**7,400**	**4,200**	**3,600**	**4,100**
Benzo(g,h,i)perylene	670	720	**1,600**	**990**	NA	**1,400**	NA	NA	**470** W	**960** W	**810** W	**1,600** W	**3,000**	**450**	**2,100**	**2,000**	**1,000**	**1,200**
Benzo(k)fluoranthene	3,200	3,200	**2,600**	**2,200**	NA	**4,400**	NA	NA	**570** W	**910** W	**1,600** W	**2,200** W	**4,900**	**800**	**4,300**	**3,500**	**3,100**	**2,600**
Chrysene	1,400	2,800	**4,100**	**3,100**	NA	**4,400**	NA	NA	**770** W	**1,100** W	**1,800** W	**2,600** W	**6,200**	**1,200**	**6,300**	**4,400**	**2,700**	**2,800**
Dibenz(a,h)anthracene	230	230	**730**	550 U	NA	280 U	NA	NA	**200** W	470 UW	260 UW	**410** W	**1,000**	110 U	680 U	**640**	**220**	370 U
Fluoranthene	1,700	2,500	**8,900**	**6,100**	NA	**8,700**	NA	NA	**1,300** W	**1,900** W	**3,800** W	**4,200** W	**11,000**	**2,400**	**13,000**	**6,900**	**5,000**	**5,600**
Indeno(1,2,3-cd)pyrene	600	690	**1,900**	**1,000**	NA	**1,400**	NA	NA	**450** W	**830** W	**730** W	**1,400** W	**2,800**	**520**	**2,200**	**2,000**	**1,000**	**1,200**
Pyrene	2,600	3,300	**6,800**	**3,500**	NA	**5,600**	NA	NA	**860** W	**1,400** W	**2,500** W	**2,600** W	**5,200**	**1,700**	**6,000**	**5,200**	**3,800**	**2,700**
Total HPAH	12,000	17,000	**37,630**	**23,290**	NA	**36,700**	NA	NA	**6,560** W	**10,270** W	**14,070** W	**19,410** W	**45,500**	**10,610**	**49,000**	**33,840**	**24,420**	**23,800**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**6,000**	**7,400**	NA	**9,000**	NA	NA	**2,300** W	**2,800** W	**5,500** W	**19,000** W	**18,000**	**1,800**	**10,000**	**10,000**	**3,800**	**13,000**
Butylbenzylphthalate	63	900	210 U	550 U	NA	**440**	NA	NA	98 UW	470 UW	260 UW	370 UW	**320** J	110 U	680 U	**580**	170 U	370 U
Diethylphthalate	200		210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Dimethylphthalate	71	160	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Di-n-butylphthalate	1,400	1,400	**260**	550 U	NA	**340**	NA	NA	98 UW	470 UW	260 UW	370 UW	**890**	**150**	680 U	**730**	170 U	370 U
Di-n-octyl phthalate	6,200		**3,700**	**6,900**	NA	**11,000**	NA	NA	**2,400** W	**3,300** W	**3,600** W	**22,000** W	**22,000**	**220**	**2,500**	**4,800**	**1,300**	**3,700**
PCBs (ug/kg dw)																		
Aroclor 1016			10 U	95 U	94 U	96 U	160 U	45 U	75 UW	30 UW	50 UW	82 UW	70 U	10 U	100 U	100 U	70 U	47 U
Aroclor 1221			10 U	95 U	23 U	96 U	160 U	45 U	75 UW	30 UW	50 UW	82 UW	70 U	10 U	100 U	100 U	70 U	47 U
Aroclor 1232			10 U	95 U	94 U	96 U	160 U	45 U	75 UW	30 UW	50 UW	82 UW	70 U	10 U	100 U	100 U	70 U	47 U
Aroclor 1242			10 U	95 U	120 U	96 U	160 U	45 U	75 UW	30 UW	50 UW	82 UW	70 U	10 U	100 U	100 U	70 U	47 U
Aroclor 1248			10 U	100 U	140 U	96 U	160 U	45 U	75 UW	200 YW	50 UW	82 UW	210 U	10 U	100 U	100 U	70 U	47 U
Aroclor 1254			**1,900** P	**750**	**580**	**1,000**	**790**	**1,200**	**240** W	**510** JW	**100** W	**160** W	**640**	**72**	**320**	**430**	**86**	**240**
Aroclor 1260			**850**	**340**	**360**	**700**	**800**	**680**	**200** W	**270** JW	**140** W	**180** W	**430**	**34**	**330**	**170**	70 U	**150**
Total PCBs	130	1,000	**2,750** P	**1,090**	**940**	**1,700**	**1,590**	**1,880**	**440** W	**780** JW	**240** W	**340** W	**1,070**	**106**	**650**	**600**	**86**	**390**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
1,2-Dichlorobenzene	35	50	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
1,3-Dichlorobenzene			210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
1,4-Dichlorobenzene	110	110	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
1-Methylnaphthalene													390 U					
2,2'-Oxybis(1-chloropropane)			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
2,4,5-Trichlorophenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
2,4,6-Trichlorophenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
2,4-Dichlorophenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T4	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A
Boeing Structure #			MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH221A	MH178	MH178	MH178	MH178	MH178
Round			1	2	3	4	5a	5b	6	7A	7B	8	9	1	2	3	4	5a
Lab Ref																		
Date removed			08/11/05	03/15/06	10/11/06	01/08/07	05/17/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/06	10/06/06	01/08/07	05/14/07
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
2,4-Dimethylphenol[a]	29	29	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
2,4-Dinitrophenol			2,100 U	5,500 U	NA	NA	NA	NA	NA	NA	2,600 UW	NA	NA	1,100 U	6,800 U	NA	NA	NA
2,4-Dinitrotoluene			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
2,6-Dinitrotoluene			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
2-Chloronaphthalene			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
2-Chlorophenol			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
2-Methylnaphthalene	670	670	**4,000**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
2-Methylphenol[a]	63	63	**240**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
2-Nitroaniline			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
2-Nitrophenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
3,3'-Dichlorobenzidine			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
3-Nitroaniline			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	370 U
4,6-Dinitro-2-methylphenol			2,100 U	5,500 U	NA	NA	NA	NA	NA	NA	2,600 UW	NA	NA	1,100 U	6,800 U	NA	NA	NA
4-Bromophenyl-phenylether			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
4-Chloro-3-methylphenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
4-Chloroaniline			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
4-Chlorophenyl-phenylether			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
4-Methylphenol[a]	670	670	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	**520** W	390 U	**410**	**830**	**530**	**2,000**	**9,400**
4-Nitroaniline			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
4-Nitrophenol			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
Benzoic acid[a]	650	650	2,100 U	5,500 U	NA	2,800 U	NA	NA	980 UW	4,700 UW	2,600 UW	**3,400** JW	3,900 U	1,100 U	6,800 U	3,800 U	1,700 U	3,700 U
Benzyl alcohol[a]	57	73	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
bis(2-Chloroethoxy) methane			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
Bis-(2-chloroethyl) ether			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
Carbazole			**1,000**	**570**	NA	NA	NA	NA	NA	NA	**390**	NA	NA	**260**	**1,400**	NA	NA	NA
Dibenzofuran	540	540	**740**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Hexachlorobenzene	22	70	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Hexachlorobutadiene	11	120	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Hexachlorocyclopentadiene			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
Hexachloroethane			210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Isophorone			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
Nitrobenzene			210 U	550 U	NA	NA	NA	NA	NA	NA	260 UW	NA	NA	110 U	680 U	NA	NA	NA
n-Nitroso-di-n-propylamine			1,000 U	2,800 U	NA	NA	NA	NA	NA	NA	1,300 UW	NA	NA	560 U	3,400 U	NA	NA	NA
N-Nitrosodiphenylamine	28	40	210 U	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	370 UW	390 U	110 U	680 U	380 U	170 U	370 U
Pentachlorophenol[a]	360	690	1,000 U	2,800 U	NA	1,400 U	NA	NA	490 UW	2,300 UW	1,300 UW	1,900 UW	2,000 U	560 U	3,400 U	1,900 U	840 U	1,800 U
Phenol[a]	420	1,200	**220**	550 U	NA	280 U	NA	NA	98 UW	470 UW	260 UW	**390** W	390 U	110 U	680 U	380 U	**180**	**1,100**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5
Boeing Structure #			MH178	MH178	MH178	MH178	MH178	MH178	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363
Round			5b	6	7A	7B	8	9	1	2	3	4	5a	5b	6	7A	7B	8
Lab Ref																		
Date removed			10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/05	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
Total solids			40.20	74.40	40.70	49.80	41.70	29.50	NA	54.6 J	28.80	62.7	27.10	27.10	45.00	34.20	33.50	26.40
TOC (%)			11.8	3.56	NA	13.2	14.9	12.8	NA	7.59	11.00	4.76	8.76	9.95	11.4	NA	13.1	14.6
Metals (mg/kg dw)																		
Arsenic	57	93	**20**	7 U	**10**	**20**	10 U	**20**	**21** J	20 U	40 U	**10**	40 U	40 U	10	**20**	**20**	**20**
Copper	390	390	**359**	**76.9**	**206**	**316** J	**759**	**248**	**148** J	**297**	**640**	**140**	**251**	**366**	**257**	**328**	**556**	**764**
Lead	450	530	**486**	**92**	**172**	**687** J	**257**	**342**	**109** J	**184**	**310**	**102**	**210**	**240**	**186**	**199**	**273**	**275**
Mercury	0.41	0.59	**0.4**	**0.14**	**0.21**	**0.58** J	**0.42**	**0.31**	**1.12** J	**2.02**	**2.9**	**5.11**	**1.8**	**4.4**	**1.07**	**0.6** J	**1.0**	**0.7**
Zinc	410	960	**781**	**201**	**374**	**691**	**1,000**	**1,380**	**553** J	**717**	**1,370**	**428**	**751**	**1,120**	**611**	**933**	**1,510**	**1,280**
Total petroleum hydrocarbons (mg/kg dw)																		
TPH-diesel	2,000[b]		**240**	**86**	**160** W	**230** J	**1,600**	**400**	**390**	**1,200**	**1,200**	**840**	**580**	**460**	**1,500**	**220** W	**120** J	**3,900**
TPH-oil	2,000[b]		**2,300**	**760**	**900** W	**1,600** J	**5,800**	**1,600**	**1,400**	**4,800**	**5,900**	**3,100**	**3,500**	**2,900**	**6,900**	**1,100** W	**710** J	**12,000**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	560 UJ	160 U	290 UW	230 U	**150** J	**350** J	130 U	1,200 U	260 U	220 U	420 U	120 UJ	**1,100**	270 UW	230 U	470 U
Acenaphthylene	1,300	1,300	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	NA	120 UJ	450 U	270 UW	230 U	470 U
Anthracene	960	960	560 UJ	**200**	290 UW	**480**	**360**	**830**	**210**	1,200 U	260 U	**270**	420 U	120 UJ	**1,800**	270 UW	230 U	**250** J
Fluorene	540	540	560 UJ	160 U	290 UW	**230**	**190** J	**400**	130 U	1,200 U	260 U	220 U	420 U	120 UJ	**1,300**	270 UW	230 U	470 U
Naphthalene	2,100	2,100	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Phenanthrene	1,500	1,500	**2,300** J	**1,300**	**1,700** W	**3,800**	**3,500**	**7,800**	**1,600**	**3,700**	**2,400**	**1,800**	**1,600**	**840** J	**9,200**	**780** W	**1,400**	**2,600**
Total LPAH	5,200	5,200	**2,300** J	**1,500**	**3,150** W	**4,510**	**4,200** J	**9,380** J	**1,810**	**3,700**	**2,400**	**2,070**	**1,600**	**840** J	**13,400**	**2,130** W	**1,400**	**2,850**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**1,500** J	**950**	**1,200** W	**2,700**	**2,200**	**5,200**	**940**	**2,500**	**1,300**	**1,400**	**1,100**	**440** J	**4,000**	**420** W	**900**	**1,500**
Benzo(a)pyrene	1,600	1,600	**1,200** J	**1,300**	**1,900** W	**4,000**	**3,500**	**8,400**	**1,200**	**3,000**	**2,300**	**2,200**	**1,700**	**390** J	**5,400**	**690** W	**1,400**	**2,200**
Benzo(b)fluoranthene	3,200	3,200	**4,100** J	**1,900**	**2,700** W	**4,600**	**4,300**	**9,900**	**1,700**	**4,500**	**3,100**	**3,000**	**2,700**	**1,200** J	**6,600**	**810** W	**1,400**	**2,700**
Benzo(g,h,i)perylene	670	720	560 UJ	**850**	**1,500** W	**2,500**	**2,200**	**4,600**	**600**	**1,500**	**1,500**	**870**	**1,100**	120 UJ	**3,400**	**690** W	**1,200**	**2,200**
Benzo(k)fluoranthene	3,200	3,200	**2,800** J	**1,000**	**1,800** W	**4,400**	**5,200**	**9,900**	**970**	**2,900**	**3,000**	**2,900**	**2,400**	**1,400** J	**4,400**	**1,100** W	**2,000**	**3,700**
Chrysene	1,400	2,800	**3,100** J	**1,400**	**2,300** W	**4,700**	**5,000**	**12,000**	**1,400**	**4,300**	**3,700**	**2,700**	**2,100**	**1,200** J	**7,000**	**1,100** W	**2,100**	**3,700**
Dibenz(a,h)anthracene	230	230	560 UJ	**290**	**300** W	**890**	**630**	**2,000**	130 U	1,200 U	**480**	220 U	420 U	120 UJ	**1,500**	270 UW	**390**	**380** J
Fluoranthene	1,700	2,500	**5,800** J	**3,100**	**4,100** W	**9,500**	**8,100**	**20,000**	**2,900**	**9,700**	**6,500**	**3,700**	**3,900**	**2,200** J	**14,000**	**1,800** W	**3,700**	**5,800**
Indeno(1,2,3-cd)pyrene	600	690	560 UJ	**810**	**1,400** W	**2,400**	**2,400**	**4,700**	**680**	**1,600**	**1,400**	**840**	**1,100**	**170** J	**3,300**	**600** W	**1,100**	**2,000**
Pyrene	2,600	3,300	**3,000** J	**2,000**	**3,200** W	**5,500**	**5,800**	**11,000**	**2,000**	**5,100**	**4,100**	**3,400**	**1,800**	**1,100** J	**9,900**	**1,400** W	**2,300**	**4,200**
Total HPAH	12,000	17,000	**21,500** J	**13,600**	**20,400** W	**41,190**	**39,330**	**87,700**	**12,390**	**35,100**	**27,380**	**21,010**	**17,900**	**8,100** J	**59,500**	**8,880** W	**16,490**	**28,380** J
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**13,000** J	**990**	**5,800** W	**9,800**	**24,000**	**16,000**	**2,700**	**8,300**	**19,000**	**7,300**	**15,000**	**8,000** J	**13,000**	**6,100** W	**5,900**	**34,000**
Butylbenzylphthalate	63	900	560 UJ	160 U	**320** W	**370**	**240** J	**300** J	**140**	1,200 U	**440**	**230**	420 U	**690** J	**1,200**	**370** W	**860**	**1,300**
Diethylphthalate	200		560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Dimethylphthalate	71	160	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Di-n-butylphthalate	1,400	1,400	560 UJ	160 U	290 UW	230 U	250 U	**800**	130 U	1,200 U	**360**	450 Y	420 U	**160** J	**470**	270 UW	230 U	470 U
Di-n-octyl phthalate	6,200		**2,800** J	**180**	**530** W	**3,500**	**2,000**	**16,000**	**1,200**	**5,500**	**7,200**	**2,300**	**8,800**	**4,400** J	**4,400**	**2,300**	**1,600**	**11,000**
PCBs (ug/kg dw)																		
Aroclor 1016			30 U	19 U	15 UW	49 U	68 U	67 U	49 U	7,600 U	55,000 U	66,000 U	11,000 U	650 U	4,600 U	250 UW	510 U	1,100 U
Aroclor 1221			30 U	19 U	15 UW	49 U	68 U	67 U	49 U	7,600 U	55,000 U	66,000 U	11,000 U	650 U	4,600 U	250 UW	510 U	1,100 U
Aroclor 1232			30 U	19 U	15 UW	49 U	68 U	67 U	49 U	7,600 U	55,000 U	130,000 U	11,000 U	650 U	4,600 U	250 UW	510 U	1,600 U
Aroclor 1242			30 U	19 U	15 UW	49 U	68 U	67 U	49 U	7,600 U	55,000 U	66,000 U	11,000 U	650 U	4,600 U	250 UW	510 U	**2,100**
Aroclor 1248			120 U	19 U	75 YW	49 U	68 U	200 U	49 U	**48,000**	660,000 U	130,000 Y	**90,000**	**25,000**	7,000 U	1,700 YW	1,000 Y	1,100 U
Aroclor 1254			**490**	**85**	**160** W	**190**	**130**	**270**	**24,000**	**54,000**	**800,000**	**200,000**	**93,000**	**37,000**	**16,000**	**4,200** JW	**3,100**	1,100 U
Aroclor 1260			**180**	**36**	**48** W	**120**	68 U	**170**	2,400 U	**12,000**	130,000 U	66,000 U	23,000 U	650 U	4,600 U	250 UW	510 U	1,100 U
Total PCBs	130	1,000	**670**	**121**	**208** W	**310**	**130**	**440**	**24,000**	**114,000**	**800,000**	**200,000**	**183,000**	**62,000**	**16,000**	**4,200** JW	**3,100**	**2,100**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
1,2-Dichlorobenzene	35	50	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
1,3-Dichlorobenzene			560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
1,4-Dichlorobenzene	110	110	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
1-Methylnaphthalene								360 U										
2,2'-Oxybis(1-chloropropane)			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
2,4,5-Trichlorophenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
2,4,6-Trichlorophenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
2,4-Dichlorophenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5A	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5	SL4-T5
Boeing Structure #			MH178	MH178	MH178	MH178	MH178	MH178	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363	CB363
Round			5b	6	7A	7B	8	9	1	2	3	4	5a	5b	6	7A	7B	8
Lab Ref																		
Date removed			10/29/07	03/18/08	07/30/08	12/03/08	04/06/09	04/08/10	08/11/05	03/15/05	10/11/06	01/08/07	05/14/07	10/29/07	03/18/08	07/30/08	12/03/08	04/06/09
Sampled by			Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing	Boeing
2,4-Dimethylphenol[a]	29	29	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	**440**	420 U	120 UJ	450 U	270 UW	230 U	470 U
2,4-Dinitrophenol			5,600 UJ	NA	NA	2,300 U	NA	NA	1,300 U	12,000 U	NA	NA	NA	1,200 UJ	NA	NA	2,300 U	NA
2,4-Dinitrotoluene			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
2,6-Dinitrotoluene			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
2-Chloronaphthalene			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
2-Chlorophenol			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
2-Methylnaphthalene	670	670	560 UJ	160 U	290 UW	230 U	**160** J	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	650	270 UW	230 U	**270** J
2-Methylphenol[a]	63	63	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
2-Nitroaniline			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
2-Nitrophenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
3,3'-Dichlorobenzidine			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
3-Nitroaniline			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	420 U	600 UJ	NA	NA	1,200 U	NA
4,6-Dinitro-2-methylphenol			5,600 UJ	NA	NA	2,300 U	NA	NA	1,300 U	12,000 U	NA	NA	NA	1,200 UJ	NA	NA	2,300 U	NA
4-Bromophenyl-phenylether			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
4-Chloro-3-methylphenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
4-Chloroaniline			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
4-Chlorophenyl-phenylether			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
4-Methylphenol[a]	670	670	**1,600** J	160 U	**310**	**1,300**	**12,000**	360 U	**360**	1,200 U	**590**	**4,600**	**8,100**	**280** J	**760**	**2,400** W	**340**	**11,000**
4-Nitroaniline			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
4-Nitrophenol			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
Benzoic acid[a]	650	650	5,600 UJ	1,600 U	2,900 UW	2,300 U	2,500 U	3,600 U	1,300 U	12,000 U	2,600 U	2,200 U	4,200 U	1,200 UJ	4,500 U	2,700 UW	2,300 U	**3,500** J
Benzyl alcohol[a]	57	73	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
bis(2-Chloroethoxy) methane			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
Bis-(2-chloroethyl) ether			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
Carbazole			570 J	NA	NA	**1,100**	NA	NA	**310**	1,200 U	NA	NA	NA	**180** J	NA	NA	**410**	NA
Dibenzofuran	540	540	560 UJ	160 U	290 UW	230 U	**200** J	**280** J	130 U	1,200 U	260 U	220 U	420 U	120 UJ	600	270 UW	230 U	470 U
Hexachlorobenzene	22	70	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Hexachlorobutadiene	11	120	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Hexachlorocyclopentadiene			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
Hexachloroethane			560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Isophorone			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
Nitrobenzene			560 UJ	NA	NA	230 U	NA	NA	130 U	1,200 U	NA	NA	NA	120 UJ	NA	NA	230 U	NA
n-Nitroso-di-n-propylamine			2,800 UJ	NA	NA	1,200 U	NA	NA	660 U	5,800 U	NA	NA	NA	600 UJ	NA	NA	1,200 U	NA
N-Nitrosodiphenylamine	28	40	560 UJ	160 U	290 UW	230 U	250 U	360 U	130 U	1,200 U	260 U	220 U	420 U	120 UJ	450 U	270 UW	230 U	470 U
Pentachlorophenol[a]	360	690	2,800 UJ	820 U	1,400 UW	1,200 U	1,300 U	1,800 U	660 U	5,800 U	1,300 U	1,100 U	2,100 U	600 UJ	2,200 U	1,400 UW	1,200 U	2,400 U
Phenol[a]	420	1,200	560 UJ	160 U	290 UW	230 U	**640**	360 U	130 U	1,200 U	**300**	**330**	**860**	120 UJ	450 U	270 UW	230 U	**1,900**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T5	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6
Boeing Structure #			**CB363**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Round			9	1	2	3	4	5	6	7	8	9	10
Lab Ref				IJ98	JD97	KA06	KL30	LA29	MN86	NJ12	OU68	PR80	QU69
Date removed			04/08/10	08/11/05	03/16/06	10/06/06	01/09/07	05/17/07	03/18/08	08/05/08	04/08/09	10/07/09	04/29/10
Sampled by			Boeing	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU
Total solids			52.9	82.9	66.4	47.7	70.0	54.5	75.6	NA	62.3	67.0	65.8
TOC (%)			9.84	3.17	4.02	4.74	4.91	2.01	1.97	NA	4.80	3.46	5.90
Metals (mg/kg dw)													
Arsenic	57	93	**15**	**11** J	**9**	10 U	8 U	10 U	7 U	NA	8 UJ	7 UJ	7 U
Copper	390	390	**287**	**84.5** J	**93.3**	**156**	**75.6**	**83.2**	**77.6**	NA	**142** J	**112** J	**89.9**
Lead	450	530	**277**	**110** J	**91**	**137**	**131**	**87**	**261**	NA	**101** J	**130** J	**91**
Mercury	0.41	0.59	**0.34**	**0.1** J	**0.07**	**0.2**	0.06 U	0.07 U	0.06 U	NA	**0.03** J	**0.04** J	**0.07**
Zinc	410	960	**705**	**422** J	**697**	**801**	**405**	**510**	**376**	NA	**442** J	**496** J	**390**
Total petroleum hydrocarbons (mg/kg dw)													
TPH-diesel	2,000[b]		**340**	**310**	**530**	NA	**280**	NA	NA	NA	**660**	**320**	**170**
TPH-oil	2,000[b]		**1,800**	**800**	**3,000**	NA	**1,500**	NA	NA	NA	**3,900**	**1,700**	**1,000**
LPAH (ug/kg DW)													
Acenaphthene	500	500	**140** J	79 U	210 U	**99** J	**59**	NA	**220** J	100 U	**46**	430 U	110 U
Acenaphthylene	1,300	1,300	250 U	79 U	210 U	170 U	45 U	NA	**150** J	100 U	33 U	430 U	110 U
Anthracene	960	960	**540**	**98**	**130** J	**160** J	**100**	NA	**550**	**230**	**130**	**270** J	**100** J
Fluorene	540	540	**250**	79 U	210 U	**140** J	**62**	NA	**630**	100 U	**60**	430 U	**58** J
Naphthalene	2,100	2,100	250 U	79 U	210 U	**140** J	45 U	NA	**450**	100 U	**110**	430 U	**72** J
Phenanthrene	1,500	1,500	**4,200**	**570**	**740**	**1,100**	**450**	NA	**2,500**	**850**	**480**	**1,000**	**630**
Total LPAH	5,200	5,200	**5,130**	**668**	**870** J	**1,639** J	**671**	NA	**4,500** J	**1,080**	**826**	**1,270** J	**860** J
HPAH (ug/kg DW)													
Benzo(a)anthracene	1,300	1,600	**2,800**	**270**	**370**	**500**	**280**	NA	**680**	**510**	**140**	**420** J	**420**
Benzo(a)pyrene	1,600	1,600	**4,500**	**250**	**340**	**690**	**270**	NA	**680**	**500**	**270**	**400** J	**420**
Benzo(b)fluoranthene	3,200	3,200	**4,400**	**380**	**480**	**750**	**520**	NA	**700**	**560**	**280**	**310** J	**440**
Benzo(g,h,i)perylene	670	720	**3,000**	79 U	**150** J	**280**	**96**	NA	**200** J	**300**	**190**	**290** J	**220**
Benzo(k)fluoranthene	3,200	3,200	**4,400**	**220**	**430**	**770**	**190**	NA	**680**	**600**	**380**	**310** J	**440** J
Chrysene	1,400	2,800	**5,500**	**370**	**580**	**970**	**330**	NA	**950**	**780**	**540**	540 NJ	**640**
Dibenz(a,h)anthracene	230	230	**1,100**	79 U	210 U	170 U	45 U	NA	260 U	100 U	**38**	430 U	**74** J
Fluoranthene	1,700	2,500	**10,000**	**880**	**1,100**	**2,000**	**810**	NA	**2,600**	**1,400**	**750**	**1,300**	**1,500**
Indeno(1,2,3-cd)pyrene	600	690	**2,700**	**84**	**140** J	**200**	**95**	NA	**180** J	**230**	**130**	**250** J	**190**
Pyrene	2,600	3,300	**5,500**	**630**	**820**	**1,200**	**620**	NA	**1,600**	**1,300**	**1,000**	**780**	**700**
Total HPAH	12,000	17,000	**43,900**	**3,084**	**4,410** J	**7,360**	**3,211**	NA	**8,270** J	**6,180**	**3,718**	**4,600** J	**5,044** J
Phthalates (ug/kg dw)													
Bis(2-ethylhexyl)phthalate	1,300	1,900	**10,000**	**6,000**	**7,500**	**16,000**	**2,600**	NA	**12,000**	**7,400**	**6,200**	**5,200**	**4,300**
Butylbenzylphthalate	63	900	**280** J	**420**	**330**	**800**	**240**	NA	**500**	**270**	**370**	**520**	**440**
Diethylphthalate	200		250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	**49**	430 U	110 UJ
Dimethylphthalate	71	160	250 U	79 U	210 U	**90** J	**40** J	NA	260 U	**150**	**120**	430 U	**110** J
Di-n-butylphthalate	1,400	1,400	**1,200**	**460**	210 U	**990** B	**51**	NA	260 U	100 U	**46**	430 U	110 U
Di-n-octyl phthalate	6,200		**2,500**	**430**	**1,200**	**1,500**	**190**	NA	**2,500**	**610**	**1,700**	**1,200**	110 U
PCBs (ug/kg dw)													
Aroclor 1016			94 U	1,800 U	20 U	39 U	32 U	58 U	960 U	55 U	29 U	20 U	20 U
Aroclor 1221			94 U	1,800 U	20 U	39 U	32 U	58 U	960 U	55 U	29 U	20 U	20 U
Aroclor 1232			94 U	1,800 U	20 U	39 U	32 U	58 U	960 U	55 U	29 U	20 U	20 U
Aroclor 1242			94 U	1,800 U	20 U	39 U	32 U	58 U	960 U	55 U	29 U	20 U	20 U
Aroclor 1248			940 U	1,800 U	39 Y	39 U	32 U	58 U	960 U	55 U	29 U	**41**	**25**
Aroclor 1254			**2,200**	1,800 U	**100**	**110**	**48**	58 U	960 U	**58** J	**63**	**76**	**40**
Aroclor 1260			**350**	**7,800**	**150**	**210**	**38**	58 U	960 U	**52** J	**43**	**31**	**21**
Total PCBs	130	1,000	**2,100**	**7,800**	**250**	**320**	**86**	58 U	960 U	**110** J	**106**	**107**	**61**
Other organic compounds (ug/kg dw)													
1,2,4-Trichlorobenzene	31	51	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
1,2-Dichlorobenzene	35	50	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
1,3-Dichlorobenzene			250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
1,4-Dichlorobenzene	110	110	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
1-Methylnaphthalene			250 U										110 U
2,2'-Oxybis(1-chloropropane)			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
2,4,5-Trichlorophenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
2,4,6-Trichlorophenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
2,4-Dichlorophenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 UJ

DT3: Slip 4 sediment trap sampling results (dry weight).

Sed Trap#	SQS/ LAET	CSL/ 2LAET	SL4-T5	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6	SL4-T6
Boeing Structure #			**CB363**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Round			9	1	2	3	4	5	6	7	8	9	10
Lab Ref				IJ98	JD97	KA06	KL30	LA29	MN86	NJ12	OU68	PR80	QU69
Date removed			04/08/10	08/11/05	03/16/06	10/06/06	01/09/07	05/17/07	03/18/08	08/05/08	04/08/09	10/07/09	04/29/10
Sampled by			Boeing	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU	SPU
2,4-Dimethylphenol[a]	29	29	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
2,4-Dinitrophenol			NA	790 U	2,100 U	1,700 U	450 U	NA	2,600 U	1,000 U	330 U	4,300 U	1,100 U
2,4-Dinitrotoluene			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
2,6-Dinitrotoluene			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
2-Chloronaphthalene			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
2-Chlorophenol			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
2-Methylnaphthalene	670	670	250 U	**88**	210 U	**440**	45 U	NA	**250** J	100 U	**48**	430 U	110 U
2-Methylphenol[a]	63	63	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
2-Nitroaniline			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
2-Nitrophenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	110 U
3,3'-Dichlorobenzidine			NA	390 U	1,000 R	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
3-Nitroaniline			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
4,6-Dinitro-2-methylphenol			NA	790 U	2,100 U	1,700 U	450 U	NA	2,600 U	1,000 U	330 U	4,300 U	1,100 U
4-Bromophenyl-phenylether			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
4-Chloro-3-methylphenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
4-Chloroaniline			NA	390 U	1,000 R	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
4-Chlorophenyl-phenylether			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
4-Methylphenol[a]	670	670	660	**170**	**770**	**940**	**810**	NA	260 U	**130**	**640**	430 U	**270**
4-Nitroaniline			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
4-Nitrophenol			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
Benzoic acid[a]	650	650	2,500 U	790 U	2,100 U	1,700 U	450 U	NA	2,600 U	1,000 U	330 U	4,300 U	1,100 U
Benzyl alcohol[a]	57	73	250 U	**130**	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
bis(2-Chloroethoxy) methane			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Bis-(2-chloroethyl) ether			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Carbazole			NA	**81**	**140** J	**150** J	**78**	NA	**350**	**160**	**80**	430 U	**110**
Dibenzofuran	540	540	**200** J	79 U	210 U	170 U	45 U	NA	**300**	100 U	**31** J	430 U	110 U
Hexachlorobenzene	22	70	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Hexachlorobutadiene	11	120	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Hexachlorocyclopentadiene			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
Hexachloroethane			250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Isophorone			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Nitrobenzene			NA	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
n-Nitroso-di-n-propylamine			NA	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
N-Nitrosodiphenylamine	28	40	250 U	79 U	210 U	170 U	45 U	NA	260 U	100 U	33 U	430 U	110 U
Pentachlorophenol[a]	360	690	1,200 U	390 U	1,000 U	850 U	220 U	NA	1,300 U	510 U	170 U	2,200 U	540 U
Phenol[a]	420	1,200	250 U	79 U	210 U	**400** B	**100**	NA	260 U	100 U	**78** J	430 U	110 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

Concentration exceeds SQS/LAET/MTCA

Concentration exceeds CSL/2LAET

J = Concentration is less than the reporting limit.

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

W = Results presented as wet weight.

DT-4: Norfolk sediment trap results (dry weight).

Station ID			NST1	NST2	NST3	NST4	NST5	NST1	NST2	NST3	NST4	NST5	NST1	NST2	NST3	NST4	NST5	NST1
Round			1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4
Lab ref			MN88	MR44	MN88	MN88	MN88	NS67	NQ67	NS67	NS67	NS67	OU68	OT13	OU44	OU44	OU68	PR79
Date removed	SQS/ LAET	CSL/ 2LAET	03/18/08	04/09/08	03/18/08	03/18/08	03/18/08	10/02/08	09/23/08	10/02/08	10/08/08	10/02/08	04/08/09	03/31/09	04/08/09	04/07/09	04/08/09	10/07/09
Total solids (%)			74.3	52.4	50.3	55.9	NA	NA	36.1	42.5	NA	NA	39.2	22.0	43.3	19.6	41.3	NA
Total organic carbon (%)			3.03	5.83	8.18	4.48	NA	NA	17.9	13.3	NA	NA	NA	NA	6.86	NA	NA	NA
Metals (mg/kg)																		
Arsenic	57	93	7 U	**13**	10 U	**11**	8 U	NA	NA	10 U	40 U	NA	10 UJ	NA	10 UJ	30 UJ	10 UJ	NA
Copper	390	390	**39**	**100**	**105**	**55**	**38**	NA	NA	**113**	**103**	NA	**97.8** J	NA	**107** J	**79** J	**54.2** J	NA
Lead	450	530	**65**	**141**	**75**	**87**	**40**	NA	NA	**92**	**130**	NA	**62** J	NA	**79** J	**110** J	**85** J	NA
Mercury	0.41	0.59	0.07 U	**0.16**	**0.70**	0.07 U	**0.09**	NA	NA	**0.10**	0.3 U	NA	**0.1** J	NA	**0.09** J	0.2 UJ	**0.13** J	NA
Zinc	410	960	**221**	**632**	**705**	**274**	**245**	NA	NA	**823**	**484**	NA	**731** J	NA	**836** J	**309** J	**574** J	NA
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		NA	**1,400**	NA	NA	NA	NA	NA	**840**	NA	NA	NA	NA	**1,400**	NA	NA	NA
TPH-oil	2,000[b]		NA	**4,400**	NA	NA	NA	NA	NA	**5,200**	NA	NA	NA	NA	**8,200**	NA	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500	260 U	**70** J	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Acenaphthylene	1,300	1,300	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Anthracene	960	960	**160** J	**120**	380 U	230 U	210 UW	NA	NA	**52** J	NA	NA	NA	NA	**68**	NA	NA	NA
Fluorene	540	540	260 U	**140**	380 U	230 U	210 UW	NA	NA	**32** J	NA	NA	NA	NA	50 U	NA	NA	NA
Naphthalene	2,100	2,100	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Phenanthrene	1,500	1,500	**730**	**590**	**580**	**180** J	**120** JW	NA	NA	**530**	NA	NA	NA	NA	**420**	NA	NA	NA
Total LPAH	5,200	5,200	**890** J	**920** J	**580**	**180** J	**120** JW	NA	NA	**614**	NA	NA	NA	NA	**488**	NA	NA	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**480**	**380**	**350** J	230 U	210 UW	NA	NA	**360**	NA	NA	NA	NA	**210**	NA	NA	NA
Benzo(a)pyrene	1,600	1,600	**580**	**490** J	**540**	**180** J	**110** JW	NA	NA	**500**	NA	NA	NA	NA	**410**	NA	NA	NA
Benzo(b)fluoranthene	3,200	3,600	**790**	**660** J	**1,100**	**410**	**230** W	NA	NA	**780**	NA	NA	NA	NA	**630**	NA	NA	NA
Benzo(g,h,i)perylene	670	720	**170** J	**310** J	**240** J	230 U	210 UW	NA	NA	**450**	NA	NA	NA	NA	**330**	NA	NA	NA
Benzo(k)fluoranthene	3,200	3,600	**660**	**660** J	**750**	**200** J	**150** JW	NA	NA	**560**	NA	NA	NA	NA	**620**	NA	NA	NA
Chrysene	1,400	2,800	**800**	**780**	**930**	**320**	**200** JW	NA	NA	**730**	NA	NA	NA	NA	**660**	NA	NA	NA
Dibenz(a,h)anthracene	230	230	260 U	**68** J	380 U	230 U	210 UW	NA	NA	**71**	NA	NA	NA	NA	**65**	NA	NA	NA
Fluoranthene	1,700	2,500	**1,700**	**1,200**	**1,700**	**550**	**300** W	NA	NA	**1,100**	NA	NA	NA	NA	**940**	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	**180** J	**260** J	**200** J	230 U	210 UW	NA	NA	**360**	NA	NA	NA	NA	**240**	NA	NA	NA
Pyrene	2,600	3,300	**1,200**	**2,100**	**1,100**	**330**	**230** W	NA	NA	**910**	NA	NA	NA	NA	**1,500**	NA	NA	NA
Total HPAH	12,000	17,000	**6,560**	**6,908**	**6,910**	**1,990**	**1,220** JW	NA	NA	**5,821**	NA	NA	NA	NA	**5,605**	NA	NA	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**10,000**	**7,000**	**16,000**	**390**	**1,000** W	NA	NA	**6,100**	NA	NA	NA	NA	**7,000**	NA	NA	NA
Butylbenzylphthalate	63	900	**280**	**260**	380 U	230 U	210 UW	NA	NA	**1,500**	NA	NA	NA	NA	**300**	NA	NA	NA
Diethylphthalate	200		260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Dimethylphthalate	71	160	**610**	290 NJ	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Di-n-butylphthalate	1,400	1,400	260 U	**78** J	380 U	230 U	210 UW	NA	NA	**47** J	NA	NA	NA	NA	50 U	NA	NA	NA
Di-n-octyl phthalate	6,200		**670**	**220**	**1,100**	230 U	210 UW	NA	NA	**620**	NA	NA	NA	NA	**470**	NA	NA	NA
PCBs (ug/kg dw)																		
Aroclor 1016			910 U	20 U	990 U	900 U	960 UW	20 U	NA	20 U	96 U	22 U	38 U	27 U	20 U	37 U	150 U	20 U
Aroclor 1221			910 U	20 U	990 U	900 U	960 UW	20 U	NA	20 U	96 U	22 U	38 U	27 U	20 U	37 U	150 U	20 U
Aroclor 1232			910 U	20 U	990 U	900 U	960 UW	20 U	NA	20 U	96 U	22 U	38 U	27 U	20 U	37 U	150 U	20 U
Aroclor 1242			910 U	20 U	990 U	900 U	960 UW	20 U	NA	20 U	96 U	22 U	38 U	27 U	20 U	37 U	150 U	20 U
Aroclor 1248			910 U	**64**	990 U	900 U	960 UW	20 U	NA	20 U	96 U	22 U	38 U	27 U	20 U	37 U	150 U	20 U
Aroclor 1254			910 U	**150**	990 U	900 U	960 UW	**31**	NA	20 U	96 U	**100**	**40**	**37**	**26**	37 U	**190**	**51**
Aroclor 1260			910 U	**74**	990 U	900 U	960 UW	**20**	NA	20 U	96 U	**36**	38 U	27 U	20 U	37 U	150 U	**35**
Total PCBs	130	1,000	910 U	**288**	990 U	900 U	960 UW	**51**	NA	20 U	96 U	**136**	**40**	**37**	**26**	37 U	**190**	**86**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
1,2-Dichlorobenzene	35	50	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
1,3-Dichlorobenzene			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
1,4-Dichlorobenzene	110	110	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
1-Methylnaphthalene																		
2,2'-Oxybis(1-chloropropane)			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
2,4,5-Trichlorophenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
2,4,6-Trichlorophenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
2,4-Dichlorophenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA

DT-4: Norfolk sediment trap results (dry weight).

Station ID			NST1	NST2	NST3	NST4	NST5	NST1	NST2	NST3	NST4	NST5	NST1	NST2	NST3	NST4	NST5	NST1
Round			1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	4
Lab ref			MN88	MR44	MN88	MN88	MN88	NS67	NQ67	NS67	NS67	NS67	OU68	OT13	OU44	OU44	OU68	PR79
Date removed	SQS/ LAET	CSL/ 2LAET	03/18/08	04/09/08	03/18/08	03/18/08	03/18/08	10/02/08	09/23/08	10/02/08	10/08/08	10/02/08	04/08/09	03/31/09	04/08/09	04/07/09	04/08/09	10/07/09
2,4-Dimethylphenol[a]	29	29	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
2,4-Dinitrophenol			2,600 U	890 U	3,800 U	2,300 U	2,100 UW	NA	NA	590 U	NA	NA	NA	NA	500 U	NA	NA	NA
2,4-Dinitrotoluene			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
2,6-Dinitrotoluene			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
2-Chloronaphthalene			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
2-Chlorophenol			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
2-Methylnaphthalene	670	670	**310**	**73** J	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
2-Methylphenol[a]	63	63	260 U	89 U	380 U	230 U	210 UW	NA	NA	83	NA	NA	NA	NA	50 U	NA	NA	NA
2-Nitroaniline			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
2-Nitrophenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
3,3'-Dichlorobenzidine			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
3-Nitroaniline			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
4,6-Dinitro-2-methylphenol			2,600 U	890 U	3,800 U	2,300 U	2,100 UW	NA	NA	590 U	NA	NA	NA	NA	500 U	NA	NA	NA
4-Bromophenyl-phenylether			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
4-Chloro-3-methylphenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
4-Chloroaniline			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
4-Chlorophenyl-phenylether			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
4-Methylphenol[a]	670	670	260 U	**120**	**1,500**	230 U	210 UW	NA	NA	**610**	NA	NA	NA	NA	**720**	NA	NA	NA
4-Nitroaniline			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
4-Nitrophenol			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
Benzoic acid[a]	650	650	2,600 U	890 U	3,800 U	2,300 U	2,100 UW	NA	NA	590 U	NA	NA	NA	NA	500 U	NA	NA	NA
Benzyl alcohol[a]	57	73	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
bis(2-Chloroethoxy) methane			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Bis-(2-chloroethyl) ether			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Carbazole			260 U	**82** J	380 U	230 U	210 UW	NA	NA	**130**	NA	NA	NA	NA	**97**	NA	NA	NA
Dibenzofuran	540	540	260 U	**54** J	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Hexachlorobenzene	22	70	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Hexachlorobutadiene	11	120	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Hexachlorocyclopentadiene			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
Hexachloroethane			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Isophorone			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Nitrobenzene			260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
n-Nitroso-di-n-propylamine			1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
N-Nitrosodiphenylamine	28	40	260 U	89 U	380 U	230 U	210 UW	NA	NA	59 U	NA	NA	NA	NA	50 U	NA	NA	NA
Pentachlorophenol[a]	360	690	1,300 U	450 U	1,900 U	1,200 U	1,100 UW	NA	NA	300 U	NA	NA	NA	NA	250 U	NA	NA	NA
Phenol[a]	420	1,200	260 U	120 U	380 U	230 U	210 UW	NA	NA	**70**	NA	NA	NA	NA	**75** J	NA	NA	NA

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-4: Norfolk sediment trap results (dry weight).

Station ID			NST2	NST3	NST4	NST5
Round			4	4	4	4
Lab ref			PR79	PR79	PR79	PR79
Date removed	SQS/ LAET	CSL/ 2LAET	10/07/09	10/07/09	10/07/09	10/07/09
Total solids (%)			37.4	44.6	NA	NA
Total organic carbon (%)			7.7	10.2	NA	NA
Metals (mg/kg)						
Arsenic	57	93	**10** J	10 UJ	NA	NA
Copper	390	390	**156** J	**112** J	NA	NA
Lead	450	530	**165** J	**73** J	NA	NA
Mercury	0.41	0.59	**0.17** J	**0.09** J	NA	NA
Zinc	410	960	**1,230** J	**870** J	NA	NA
Total petroleum hydrocarbons (mg/kg)						
TPH-diesel	2,000[b]		**2,300**	**330**	NA	NA
TPH-oil	2,000[b]		**7,900**	**1,900**	NA	NA
LPAH (ug/kg DW)						
Acenaphthene	500	500	1,000 U	1,000 U	NA	NA
Acenaphthylene	1,300	1,300	1,000 U	1,000 U	NA	NA
Anthracene	960	960	1,000 U	1,000 U	NA	NA
Fluorene	540	540	1,000 U	1,000 U	NA	NA
Naphthalene	2,100	2,100	1,000 U	1,000 U	NA	NA
Phenanthrene	1,500	1,500	**900** J	**750** J	NA	NA
Total LPAH	5,200	5,200	**900**	**750**	NA	NA
HPAH (ug/kg DW)						
Benzo(a)anthracene	1,300	1,600	1,000 U	**620** J	NA	NA
Benzo(a)pyrene	1,600	1,600	**640** J	**750** J	NA	NA
Benzo(b)fluoranthene	3,200	3,600	**500** J	**730** J	NA	NA
Benzo(g,h,i)perylene	670	720	**770** J	**820** J	NA	NA
Benzo(k)fluoranthene	3,200	3,600	**500** J	**730** J	NA	NA
Chrysene	1,400	2,800	1,200 NJ	1,100 NJ	NA	NA
Dibenz(a,h)anthracene	230	230	1,000 U	1,000 U	NA	NA
Fluoranthene	1,700	2,500	**1,800**	**1,700**	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	**500** J	**660** J	NA	NA
Pyrene	2,600	3,300	**1,300**	**1,100**	NA	NA
Total HPAH	12,000	17,000	**7,210** J	**8,210** J	NA	NA
Phthalates (ug/kg dw)						
Bis(2-ethylhexyl)phthalate	1,300	1,900	**12,000**	**7,800**	NA	NA
Butylbenzylphthalate	63	900	1,000 U	1,000 U	NA	NA
Diethylphthalate	200		1,000 U	1,000 U	NA	NA
Dimethylphthalate	71	160	**660** J	1,000 U	NA	NA
Di-n-butylphthalate	1,400	1,400	1,000 U	1,000 U	NA	NA
Di-n-octyl phthalate	6,200		1,000 U	1,000 U	NA	NA
PCBs (ug/kg dw)						
Aroclor 1016			19 U	19 U	14 U	110 U
Aroclor 1221			19 U	19 U	41 Y	110 U
Aroclor 1232			19 U	19 U	14 U	110 U
Aroclor 1242			19 U	19 U	14 U	110 U
Aroclor 1248			**49**	19 U	14 U	110 U
Aroclor 1254			**94**	**28**	**23**	**310**
Aroclor 1260			**70**	**26**	**27**	**220**
Total PCBs	130	1,000	**213**	**54**	**50**	**530**
Other organic compounds (ug/kg dw)						
1,2,4-Trichlorobenzene	31	51	1,000 U	1,000 U	NA	NA
1,2-Dichlorobenzene	35	50	1,000 U	1,000 U	NA	NA
1,3-Dichlorobenzene			1,000 U	1,000 U	NA	NA
1,4-Dichlorobenzene	110	110	1,000 U	1,000 U	NA	NA
1-Methylnaphthalene			1,000 U	1,000 U		
2,2'-Oxybis(1-chloropropane)			1,100 U	1,000 U	NA	NA
2,4,5-Trichlorophenol			5,500 U	5,100 U	NA	NA
2,4,6-Trichlorophenol			5,500 U	5,100 U	NA	NA
2,4-Dichlorophenol			5,500 U	5,100 U	NA	NA

DT-4: Norfolk sediment trap results (dry weight).

Station ID			NST2	NST3	NST4	NST5
Round			4	4	4	4
Lab ref			PR79	PR79	PR79	PR79
Date removed	SQS/ LAET	CSL/ 2LAET	10/07/09	10/07/09	10/07/09	10/07/09
2,4-Dimethylphenol[a]	29	29	1,100 U	1,000 U	NA	NA
2,4-Dinitrophenol			11,000 U	10,000 U	NA	NA
2,4-Dinitrotoluene			5,500 U	5,100 U	NA	NA
2,6-Dinitrotoluene			5,500 U	5,100 U	NA	NA
2-Chloronaphthalene			1,100 U	1,000 U	NA	NA
2-Chlorophenol			1,100 U	1,000 U	NA	NA
2-Methylnaphthalene	670	670	1,100 U	1,000 U	NA	NA
2-Methylphenol[a]	63	63	1,100 U	1,000 U	NA	NA
2-Nitroaniline			5,500 U	5,100 U	NA	NA
2-Nitrophenol			5,500 U	5,100 U	NA	NA
3,3'-Dichlorobenzidine			5,500 U	5,100 U	NA	NA
3-Nitroaniline			5,500 U	5,100 U	NA	NA
4,6-Dinitro-2-methylphenol			11,000 U	10,000 U	NA	NA
4-Bromophenyl-phenylether			1,100 U	1,000 U	NA	NA
4-Chloro-3-methylphenol			5,500 U	5,100 U	NA	NA
4-Chloroaniline			5,500 U	5,100 U	NA	NA
4-Chlorophenyl-phenylether			1,100 U	1,000 U	NA	NA
4-Methylphenol[a]	670	670	1,100 U	1,000 U	NA	NA
4-Nitroaniline			5,500 U	5,100 U	NA	NA
4-Nitrophenol			5,500 U	5,100 U	NA	NA
Benzoic acid[a]	650	650	11,000 U	10,000 U	NA	NA
Benzyl alcohol[a]	57	73	1,100 U	1,000 U	NA	NA
bis(2-Chloroethoxy) methane			1,100 U	1,000 U	NA	NA
Bis-(2-chloroethyl) ether			1,100 U	1,000 U	NA	NA
Carbazole			1,100 U	1,000 U	NA	NA
Dibenzofuran	540	540	1,100 U	1,000 U	NA	NA
Hexachlorobenzene	22	70	1,100 U	1,000 U	NA	NA
Hexachlorobutadiene	11	120	1,100 U	1,000 U	NA	NA
Hexachlorocyclopentadiene			5,500 U	5,100 U	NA	NA
Hexachloroethane			1,100 U	1,000 U	NA	NA
Isophorone			1,100 U	1,000 U	NA	NA
Nitrobenzene			1,100 U	1,000 U	NA	NA
n-Nitroso-di-n-propylamine			5,500 U	5,100 U	NA	NA
N-Nitrosodiphenylamine	28	40	1,100 U	1,000 U	NA	NA
Pentachlorophenol[a]	360	690	5,500 U	5,100 U	NA	NA
Phenol[a]	420	1,200	1,100 U	1,000 U	NA	NA

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-5: Other sediment trap sample results (dry weight).

Station ID			1st-ST1	1st-ST2	1st-ST3	DK-ST1	ID-ST1	ID-ST2	7th-ST1	7th-ST2	7th-ST3	HP-ST4	HP-ST6	HP-ST7	KN-ST1	96-ST1	96-ST2
Lab Ref			OP80	OP80	OQ56	OP80	OP80	OP80	OR05	OR05	OQ56	OQ56	OV62	OR05	OR05	OW77	OW77
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			1st Ave S SD	1st Ave S SD	1st Ave S SD	SW Idaho SD	SW Idaho SD	SW Idaho SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	Highland Park Wy SD	Highland Park Wy SD	1st Ave S SD	SW Kenny SD	S 96th St SD	S 96th St SD
Date	SQS/ LAET	CSL/ 2LAET	03/06/09	03/06/09	03/12/09	03/06/09	03/06/09	03/06/09	03/17/09	03/17/09	03/12/09	03/12/09	04/15/09	03/17/09	03/17/09	04/24/09	04/24/09
Total solids (%)			46.7	NA	67	59	36.4	64.8	NA	35.6	NA	68.9	35.6	67.6	49.2	48.9	66.7
Total organic carbon (%)			9.04	NA	7.32	2.55	7.14	1.84	NA	4.61	NA	8.93	7.53	4.5	3.65	16.9	8.85
Metals (mg/kg)																	
Arsenic	57	93	9 U	20 U	8 U	9 U	10 U	7 U	**20**	**30**	**20**	8 U	**30**	7 U	**10**	**20**	7 U
Copper	390	390	**177**	**121**	**34.7**	**29.5**	**101**	**24.8**	**193**	**27.7**	**126**	**42.4**	**145**	**39**	**96.8**	**60**	**45.6**
Lead	450	530	**81**	**128**	**14**	**49**	**113**	**16**	**149**	**27**	**104**	**70**	**148**	**218**	**69**	**82**	**56**
Mercury	0.41	0.59	**0.14**	**0.20**	0.07 U	**0.09**	**0.20**	0.06 U	**0.18**	0.10 U	**0.20**	0.07 U	**0.34**	0.05 U	**0.11**	**0.07**	**0.05**
Zinc	410	960	**647**	**579**	**203**	**228**	**836**	**100**	**918**	**229**	**619**	**228**	**779**	**192**	**463**	**406**	**458**
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		**2,400**	NA	**290**	95 U	**1,200**	**86**	NA	140 U	NA	**280**	**1,200**	**480**	**870**	**390**	**160**
TPH-oil	2,000[b]		**11,000**	NA	**1,300**	**480**	**7,700**	**600**	NA	**600**	NA	**1,600**	**4,800**	**2,600**	**4,700**	**1,400**	**1,000**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	**210**	58 U
Acenaphthylene	1,300	1,300	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Anthracene	960	960	200 U	NA	88 U	59 U	**590**	59 U	NA	20 U	170 U	93 U	160 U	110 U	**250**	**580**	58 U
Fluorene	540	540	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	**250**	58 U
Naphthalene	2,100	2,100	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	**75**	58 U
Phenanthrene	1,500	1,500	**590**	NA	**170**	59 U	**3,600**	**160**	NA	20 U	**110** J	**58** J	**370**	**490**	**1,200**	**2,400**	**210**
Total LPAH	5,200	5,200	**590**	NA	**170**	**59**	**4,190**	**160**	NA	**20**	**110** J	**58** J	**370**	**490**	**1,450**	**3,515**	**210**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**340**	NA	**140**	59 U	**5,600**	**220**	NA	20 U	170 U	93 U	**160**	**290**	**700**	**1,100**	**160**
Benzo(a)pyrene	1,600	1,600	**310**	NA	**160**	59 U	**8,300**	**320**	NA	20 U	**110** J	93 U	160 U	**390**	**740**	**1,200**	**170**
Benzo(b)fluoranthene	3,200	3,600	**390**	NA	**160**	**34** J	**25,000**	**750**	NA	20 U	**120** J	93 U	**190**	**420**	**1,100**	**1,300**	**240**
Benzo(g,h,i)perylene	670	720	**290**	NA	**95**	59 UJ	**8,800**	**430**	NA	20 U	**120** J	93 U	160 U	**210**	**760**	**490**	**74**
Benzo(k)fluoranthene	3,200	3,600	**450**	NA	**190**	59 U	**14,000**	**650**	NA	**20**	**140** J	**59** J	**180**	**640**	**1,200**	**1,400**	**250**
Chrysene	1,400	2,800	**730**	NA	**220**	**35** J	**17,000**	**640**	NA	**20**	**200**	**72** J	**280**	**560**	**1,400**	**1,400**	**240**
Dibenz(a,h)anthracene	230	230	200 U	NA	88 U	59 UJ	**2,100**	**110**	NA	20 U	170 U	93 U	160 U	110 U	**250**	**170**	58 U
Fluoranthene	1,700	2,500	**1,000**	NA	**380**	59 U	**9,900**	**480**	NA	**30**	**220**	**93**	**620**	**990**	**2,100**	**3,300**	**440**
Indeno(1,2,3-cd)pyrene	600	690	**160** J	NA	**83** J	59 UJ	**8,300**	**390**	NA	20 U	170 U	93 U	160 U	**180**	**640**	**440**	**61**
Pyrene	2,600	3,300	**1,200**	NA	**340**	59 U	**9,800**	**450**	NA	**29**	**300**	**110**	**450**	**900**	**1,800**	**3,100**	**440**
Total HPAH	12,000	17,000	**4,870** J	NA	**1,768** J	**69** J	**108,800**	**4,440**	NA	**99**	**1,210** J	**334** J	**1,880**	**4,580**	**10,690**	**13,900**	**2,075**
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**13,000**	NA	**780**	**220**	**20,000**	**860**	NA	**190** B	**3,400**	**7,300**	**4,000**	**3,200** B	**4,900** B	**3,300**	**1,500**
Butylbenzylphthalate	63	900	**260**	NA	88 U	59 U	**1,200**	**63**	NA	**29**	**120** J	**420**	**400**	110 U	**160**	**130**	**110**
Diethylphthalate	200		200 U	NA	88 U	**49** J	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Dimethylphthalate	71	160	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Di-n-butylphthalate	1,400	1,400	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	**170** J	93 U	160 U	110 U	**150** U	69 U	58 U
Di-n-octyl phthalate	6,200		**880**	NA	88 U	59 U	**880**	**40** J	NA	20 U	**170**	**91** J	160 U	**330**	**360**	**200**	**79**
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	38 U	20 U	20 U	20 U	20 U	24 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1221			20 U	38 U	20 U	20 U	20 U	20 U	24 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1232			20 U	38 U	20 U	20 U	20 U	20 U	24 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1242			20 U	38 U	20 U	20 U	**120**	20 U	24 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1248			20 U	38 U	20 U	20 U	20 U	**42**	**50**	20 U	20 U	20 U	**40**	20 U	50 Y	20 U	19 U
Aroclor 1254			**35**	**43**	20 U	20 U	**99**	20 U	**94**	20 U	**31**	**22**	**30**	**120**	**100**	20 U	19 U
Aroclor 1260			**22**	38 U	20 U	20 U	**60**	20 U	**120**	20 U	29	20 U	20 U	50 Y	20 U	20 U	19 U
Total PCBs	130	1,000	**57**	**43**	20 U	20 U	**279**	**42**	**264**	20 U	**31**	**22**	**70**	**120**	**100**	20 U	19 U
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
1,2-Dichlorobenzene	35	50	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
1,3-Dichlorobenzene			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
1,4-Dichlorobenzene	110	110	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
1-Methylnaphthalene																	
2,2'-Oxybis(1-chloropropane)			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U

DT-5: Other sediment trap sample results (dry weight).

Station ID			1st-ST1	1st-ST2	1st-ST3	DK-ST1	ID-ST1	ID-ST2	7th-ST1	7th-ST2	7th-ST3	HP-ST4	HP-ST6	HP-ST7	KN-ST1	96-ST1	96-ST2
Lab Ref			OP80	OP80	OQ56	OP80	OP80	OP80	OR05	OR05	OQ56	OQ56	OV62	OR05	OR05	OW77	OW77
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			1st Ave S SD	1st Ave S SD	1st Ave S SD	SW Idaho SD	SW Idaho SD	SW Idaho SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	Highland Park Wy SD	Highland Park Wy SD	1st Ave S SD	SW Kenny SD	S 96th St SD	S 96th St SD
Date	SQS/ LAET	CSL/ 2LAET	03/06/09	03/06/09	03/12/09	03/06/09	03/06/09	03/06/09	03/17/09	03/17/09	03/12/09	03/12/09	04/15/09	03/17/09	03/17/09	04/24/09	04/24/09
2,4,5-Trichlorophenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2,4,6-Trichlorophenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2,4-Dichlorophenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2,4-Dimethylphenol[a]	29	29	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
2,4-Dinitrophenol			2,000 U	NA	880 U	590 U	5,100 U	590 U	NA	200 U	1,700 U	930 U	1,600 U	1,100 U	1,500 U	690 U	580 U
2,4-Dinitrotoluene			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2,6-Dinitrotoluene			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2-Chloronaphthalene			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
2-Chlorophenol			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
2-Methylnaphthalene	670	670	**160** J	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	**150**	58 U
2-Methylphenol[a]	63	63	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
2-Nitroaniline			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
2-Nitrophenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
3,3'-Dichlorobenzidine			1,000 U	NA	440 U	300 UJ	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
3-Nitroaniline			1,000 U	NA	440 U	300 UJ	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
4,6-Dinitro-2-methylphenol			2,000 U	NA	880 U	590 U	5,100 U	590 U	NA	200 U	1,700 U	930 U	1,600 U	1,100 U	1,500 U	690 U	580 U
4-Bromophenyl-phenylether			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
4-Chloro-3-methylphenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
4-Chloroaniline			1,000 U	NA	440 U	300 UJ	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
4-Chlorophenyl-phenylether			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
4-Methylphenol[a]	670	670	**640**	NA	**1,500**	**200**	**1,400**	59 U	NA	20 U	170 U	**3,400**	160 U	**1,400**	150 U	**2,500**	**480**
4-Nitroaniline			1,000 U	NA	440 U	300 UJ	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
4-Nitrophenol			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
Benzoic acid[a]	650	650	2,000 U	NA	880 U	590 U	5,100 U	590 U	NA	**810**	1,700 U	930 U	1,600 U	1,100 U	1,500 U	690 U	580 U
Benzyl alcohol[a]	57	73	200 U	NA	88 U	59 U	510 U	59 U	NA	**250**	170 U	93 U	160 U	110 U	150 U	69 U	**92**
bis(2-Chloroethoxy) methane			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Bis-(2-chloroethyl) ether			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Carbazole			200 U	NA	88 U	59 U	**990**	**47** J	NA	20 U	170 U	93 U	160 U	110 U	150	**310**	58 U
Dibenzofuran	540	540	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	**110**	58 U
Hexachlorobenzene	22	70	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Hexachlorobutadiene	11	120	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Hexachlorocyclopentadiene			1,000 U	NA	440 U	300 UJ	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
Hexachloroethane			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Isophorone			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Nitrobenzene			200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
n-Nitroso-di-n-propylamine			1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
N-Nitrosodiphenylamine	28	40	200 U	NA	88 U	59 U	510 U	59 U	NA	20 U	170 U	93 U	160 U	110 U	150 U	69 U	58 U
Pentachlorophenol[a]	360	690	1,000 U	NA	440 U	300 U	2,500 U	300 U	NA	99 U	850 U	460 U	790 U	550 U	760 U	350 U	290 U
Phenol[a]	420	1,200	200 U	NA	**65** J	59 U	510 U	59 U	NA	**130**	170 U	**190**	160 U	**140**	150 U	**210** B	58 U

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-5: Other sediment trap sample results (dry weight).

Station ID			96-ST3	HC-ST1	KC1-ST1	KC2-ST1	KC2-ST1	KCJ-ST1	KCJ-ST1
Lab Ref			OY94	OV62	OS39	OS39	PT62/PU09	OS39	QA78
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD
Outfall			S 96th St SD	Hamm Creek	KCIA SD#2	KCIA SD#1	KCIA SD#1	KCIA-Jorgensen SD	KCIA-Jorgensen SD
Date	SQS/ LAET	CSL/ 2LAET	05/13/09	04/15/09	03/26/09	03/26/09	10/21/09	03/26/09	12/10/09
Total solids (%)			71.7	74.1	55.2	36	56.6	NA	NA
Total organic carbon (%)			1.36	1.35	0.805	6.52	1.2	NA	NA
Metals (mg/kg)									
Arsenic	57	93	6 UJ	**6** J	8 UJ	30 UJ	20 UJ	NA	NA
Copper	390	390	**15.8** J	**15.8** J	**16.9** J	**102** J	**16** J	NA	NA
Lead	450	530	**10** J	**12** J	**14** J	**110** J	**18** J	NA	NA
Mercury	0.41	0.59	**0.06** J	**0.03** J	0.06 UJ	**0.20** J	0.03 UJ	NA	NA
Zinc	410	960	**53** J	**72** J	**51** J	**559** J	**79** J	NA	NA
Total petroleum hydrocarbons (mg/kg)									
TPH-diesel	2,000[b]		68 U	68 U	NA	NA	87 U	NA	NA
TPH-oil	2,000[b]		140 U	140 U	NA	NA	170 U	NA	NA
LPAH (ug/kg DW)									
Acenaphthene	500	500	19 U	20 U	59 U	**160** J	**48**	NA	NA
Acenaphthylene	1,300	1,300	19 U	20 U	59 U	180 U	**12** J	NA	NA
Anthracene	960	960	19 U	20 U	**66**	**310**	**260**	NA	NA
Fluorene	540	540	19 U	20 U	59 U	**170** J	**73**	NA	NA
Naphthalene	2,100	2,100	19 U	20 U	59 U	180 U	20 U	NA	NA
Phenanthrene	1,500	1,500	19 U	**21**	**630**	**3,200**	**1,400**	NA	NA
Total LPAH	5,200	5,200	19 U	**21**	**696**	**3,840** J	**1,793** J	NA	NA
HPAH (ug/kg DW)									
Benzo(a)anthracene	1,300	1,600	19 U	20 U	**500**	**2,100**	**1,300**	NA	NA
Benzo(a)pyrene	1,600	1,600	19 U	20 U	**550**	**2,600**	**1,300**	NA	NA
Benzo(b)fluoranthene	3,200	3,600	19 U	20 U	**820**	**3,900**	**1,300**	NA	NA
Benzo(g,h,i)perylene	670	720	19 U	20 U	**530**	**2,100**	**620**	NA	NA
Benzo(k)fluoranthene	3,200	3,600	19 U	20 U	**750**	**2,700**	**1,300**	NA	NA
Chrysene	1,400	2,800	**11** J	20 U	**850**	**3,800**	**1,300**	NA	NA
Dibenz(a,h)anthracene	230	230	19 U	20 U	**170**	**800**	**330**	NA	NA
Fluoranthene	1,700	2,500	**18** J	**31**	**1,500**	**7,300**	**4,400** B	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	19 U	20 U	**500**	**2,100**	**730**	NA	NA
Pyrene	2,600	3,300	**16** J	**36**	**1,200**	**5,300**	**2,700**	NA	NA
Total HPAH	12,000	17,000	**45** J	**67**	**7,370**	**32,700**	**15,280** B	NA	NA
Phthalates (ug/kg dw)									
Bis(2-ethylhexyl)phthalate	1,300	1,900	43 U	**82**	**190**	**3,700**	**210**	NA	NA
Butylbenzylphthalate	63	900	19 U	20 U	59 U	180 U	20 U	NA	NA
Diethylphthalate	200		33 U	20 U	59 U	180 U	20 U	NA	NA
Dimethylphthalate	71	160	19 U	20 U	59 U	180 U	20 U	NA	NA
Di-n-butylphthalate	1,400	1,400	**25**	20 U	59 U	180 U	20 U	NA	NA
Di-n-octyl phthalate	6,200		19 U	20 U	**40** J	**110** J	20 U	NA	NA
PCBs (ug/kg dw)									
Aroclor 1016			20 U	20 U	20 U	20 U	18 U	1,800 U	160 U
Aroclor 1221			20 U	20 U	20 U	20 U	18 U	1,800 U	160 U
Aroclor 1232			20 U	20 U	20 U	20 U	18 U	1,800 U	160 U
Aroclor 1242			20 U	20 U	20 U	20 U	18 U	1,800 U	160 U
Aroclor 1248			20 U	20 U	20 U	20 U	18 U	1,800 U	2,300 Y
Aroclor 1254			20 U	20 U	20 U	**32**	18 U	**11,000**	**4,300**
Aroclor 1260			20 U	20 U	20 U	**25**	18 U	1,800 U	**1,200**
Total PCBs	130	1,000	20 U	20 U	20 U	**57**	18 U	**11,000**	5,500
Other organic compounds (ug/kg dw)									
1,2,4-Trichlorobenzene	31	51	19 U	20 U	59 U	180 U	20 U	NA	NA
1,2-Dichlorobenzene	35	50	19 U	20 U	59 U	180 U	20 U	NA	NA
1,3-Dichlorobenzene			19 U	20 U	59 U	180 U	20 U	NA	NA
1,4-Dichlorobenzene	110	110	19 U	20 U	59 U	180 U	20 U	NA	NA
1-Methylnaphthalene							20 U	NA	NA
2,2'-Oxybis(1-chloropropane)			19 U	20 U	59 U	180 U	20 U	NA	NA

DT-5: Other sediment trap sample results (dry weight).

Station ID			**96-ST3**	**HC-ST1**	**KC1-ST1**	**KC2-ST1**	**KC2-ST1**	**KCJ-ST1**	**KCJ-ST1**
Lab Ref			OY94	OV62	OS39	OS39	PT62/PU09	OS39	QA78
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD
Outfall			S 96th St SD	Hamm Creek	KCIA SD#2	KCIA SD#1	KCIA SD#1	KCIA-Jorgensen SD	KCIA-Jorgensen SD
Date	SQS/ LAET	CSL/ 2LAET	05/13/09	04/15/09	03/26/09	03/26/09	10/21/09	03/26/09	12/10/09
2,4,5-Trichlorophenol			97 U	100 U	300 U	920 U	97 U	NA	NA
2,4,6-Trichlorophenol			97 U	100 U	300 U	920 U	97 U	NA	NA
2,4-Dichlorophenol			97 U	100 U	300 U	920 U	97 U	NA	NA
2,4-Dimethylphenol[a]	29	29	19 U	20 U	59 U	180 U	20 U	NA	NA
2,4-Dinitrophenol			190 U	200 U	590 U	1,800 U	200 U	NA	NA
2,4-Dinitrotoluene			97 U	100 U	300 U	920 U	97 U	NA	NA
2,6-Dinitrotoluene			97 U	100 U	300 U	920 U	97 U	NA	NA
2-Chloronaphthalene			19 U	20 U	59 U	180 U	20 U	NA	NA
2-Chlorophenol			19 U	20 U	59 U	180 U	20 U	NA	NA
2-Methylnaphthalene	670	670	19 U	20 U	59 U	180 U	20 U	NA	NA
2-Methylphenol[a]	63	63	19 U	20 U	59 U	180 U	20 U	NA	NA
2-Nitroaniline			97 U	100 U	300 U	920 U	97 U	NA	NA
2-Nitrophenol			97 U	100 U	300 U	920 U	97 U	NA	NA
3,3'-Dichlorobenzidine			97 U	100 U	300 U	920 U	97 U	NA	NA
3-Nitroaniline			97 U	100 U	300 U	920 U	97 U	NA	NA
4,6-Dinitro-2-methylphenol			190 U	200 U	590 U	1,800 U	200 U	NA	NA
4-Bromophenyl-phenylether			19 U	20 U	59 U	180 U	20 U	NA	NA
4-Chloro-3-methylphenol			97 U	100 U	300 U	920 U	97 U	NA	NA
4-Chloroaniline			97 U	100 U	300 U	920 U	97 U	NA	NA
4-Chlorophenyl-phenylether			19 U	20 U	59 U	180 U	20 U	NA	NA
4-Methylphenol[a]	670	670	19 U	20 U	59 U	180 U	20 U	NA	NA
4-Nitroaniline			97 U	100 U	300 U	920 U	97 U	NA	NA
4-Nitrophenol			97 U	100 U	300 U	920 U	97 U	NA	NA
Benzoic acid[a]	650	650	190 U	200 U	590 U	1,800 U	**48** J	NA	NA
Benzyl alcohol[a]	57	73	19 U	20 U	59 U	180 U	20 U	NA	NA
bis(2-Chloroethoxy) methane			19 U	20 U	59 U	180 U	20 U	NA	NA
Bis-(2-chloroethyl) ether			19 U	20 U	59 U	180 U	20 U	NA	NA
Carbazole			19 U	20 U	**160**	**610**	**510**	NA	NA
Dibenzofuran	540	540	19 U	20 U	59 U	**110** J	**42**	NA	NA
Hexachlorobenzene	22	70	19 U	20 U	59 U	180 U	20 U	NA	NA
Hexachlorobutadiene	11	120	19 U	20 U	59 U	180 U	20 U	NA	NA
Hexachlorocyclopentadiene			97 U	100 U	300 U	920 U	97 U	NA	NA
Hexachloroethane			19 U	20 U	59 U	180 U	20 U	NA	NA
Isophorone			19 U	20 U	59 U	180 U	20 U	NA	NA
Nitrobenzene			19 U	20 U	59 U	180 U	20 U	NA	NA
n-Nitroso-di-n-propylamine			97 U	100 U	300 U	920 U	97 U	NA	NA
N-Nitrosodiphenylamine	28	40	19 U	20 U	59 U	180 U	20 U	NA	NA
Pentachlorophenol[a]	360	690	97 U	100 U	300 U	920 U	97 U	NA	NA
Phenol[a]	420	1,200	19 U	20 U	59 U	**140** J	20 U	NA	NA

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			MH1	MH1D	MH3	MH3b	MH4	MH4b	MH5	MH5-N3	MH6	MH7	MH7b	Norfolk20	Norfolk21	NST1	NST2	NST3	NST4
Lab Ref			FX12	FX12	FX12	HV81	FX12	HV81	FX12	FX12	FX12	FX12	HV81	HD88	HD88	LQ16	LQ16	LQ16	LQ16
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/PS1 7 EOF	Norfolk CSO/SD/PS1 7 EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF
Date	**LAET**	**2LAET**	10/01/03	10/01/03	10/01/03	03/16/05	10/01/03	03/16/05	10/01/03	10/01/03	10/01/03	10/01/03	03/16/05	09/30/04	09/30/04	09/19/07	09/19/07	09/18/07	09/18/07
Total solids (%)			43.3	36.0	42.80	47.8	62.20	55.2	73.40	NA	64.4	78.10	77.1	63.7	70.8	68.7	75.9	56.0	67.7
TOC (%)			7.40	7.00	8.1	6.40	8.00	4.96	4.60	NA	7.70	2.20	1.21	5.34	1.65	2.22	2.16	5.86	1.99
Metals (mg/kg DW)																			
Arsenic	57	93	**20** J	**20** J	**10** J	**10** J	8 UJ	8 UJ	**8** J	**120**	**11** J	20 UJ	6 UJ	**10**	7 U	**7**	20 U	**9**	**7**
Copper	390	390	**147** J	**181** J	**153** J	**131** J	**55.7** J	**74.8** J	**73** J	**3,960**	**118** J	**51.1** J	**24.6** J	**149**	**39.9**	**32.1**	**52.3**	**102**	**20**
Lead	450	530	**217** J	**261** J	**183** J	**226** J	**79** J	**82** J	**66** J	**700**	**198** J	**51** J	**16** J	**245**	**38**	**49**	**52.0**	**78**	**44**
Mercury	0.41	0.59	**0.4** J	**0.2** J	**0.2** J	**0.2** J	**0.09** J	**0.11** J	0.06 UJ	0.04 U	**0.33** J	0.05 UJ	0.05 UJ	**0.18**	0.06 U	0.07 U	**0.09**	**0.13**	0.05 U
Zinc	410	960	**1,150**	**1,230**	**1,060**	**847** J	**416** J	**415** J	**357** J	**9,980**	**627** J	**127** J	**90** J	**651**	**108**	**166**	**282**	**741**	**94**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH-diesel	2,000[b]		**3,800**	**3,200**	**2,200**	NA	**1,400**	NA	**1,450**	NA	**650**	**0**	NA	**140**	**43**	**780**	**410**	**470**	68 U
TPH-oil	2,000[b]		**8,400**	**7,600**	**5,000**	NA	**2,900**	NA	**2,725**	NA	**1,700**	**0**	NA	**580**	**200**	**2,700**	**1,600**	**4,300**	**180**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	930 U	600 U	480 U	640 U	120 U	**490**	170 U	NA	NA	**76** U	120 U	**24**	20 U	150 U	90 U	250 U	20 U
Acenaphthylene	1,300	1,300	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Anthracene	960	960	930 U	600 U	480 U	640 U	120 U	**1,900**	170 U	NA	NA	**300**	120 U	**37**	20 U	**270**	90 U	250 U	20 U
Fluorene	540	540	930 U	600 U	480 U	**830**	**200**	670	170 U	NA	NA	**88**	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Naphthalene	2,100	2,100	930 U	600 U	480 U	640 U	120 U	300 U	**190**	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Phenanthrene	1,500	1,500	930 U	**610**	**1,800**	**2,700**	**1,600**	**4,000**	**490**	NA	NA	**950**	**130**	**200**	20 U	**1,200**	90 U	**640**	**70**
Total LPAH	5,200	5,200	**930**	**610**	**1,800**	**3,530**	**1,800**	**7,060**	**680**	NA	NA	**1,338**	**130**	**261**	**20**	**1,470**	90 U	**640**	**70**
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	930 U	1,000 NJ	**1,400**	640 U	**1,000**	**1,000**	380 NJ	NA	NA	**420**	120 U	**210**	20 U	**760**	90 U	**480**	**52**
Benzo(a)pyrene	1,600	1,600	**1,000**	**910**	**960**	**2,400**	**1,200**	**5,900**	**240**	NA	NA	**360**	120 U	**320**	20 U	**860**	90 U	**860**	**92**
Benzo(b)fluoranthene	3,200	3,600	**930**	**920**	**1,100**	**1,100**	**1,100**	**2,800**	**260**	NA	NA	**280**	120 U	**450**	20 U	**790**	90 U	**1,500**	**220**
Benzo(g,h,i)perylene	670	720	**1,000**	**910**	**1,200**	**1,100**	**910**	**1,600**	**250**	NA	NA	**180**	120 U	**230**	20 U	**360**	90 U	**490**	**36**
Benzo(k)fluoranthene	3,200	3,600	**930**	**920**	**1,100**	**1,500**	**1,100**	**2,900**	**260**	NA	NA	**280**	120 U	**450**	20 U	**690**	90 U	**990**	**130**
Chrysene	1,400	2,800	930 U	1,000 NJ	**1,700**	**2,700**	**1,100**	**6,500**	380 NJ	NA	NA	**530**	**120**	**360**	20 U	**980**	**120**	**1,200**	**140**
Dibenz(a,h)anthracene	230	230	930 U	600 U	480 U	640 U	**230**	**490**	170 U	NA	NA	76 U	120 U	**79**	20 U	150 U	90 U	250 U	20 U
Fluoranthene	1,700	2,500	**1,800**	**1,600**	**2,800**	**3,300**	**2,600**	**8,200**	**790**	NA	NA	**1,100**	**230**	**480**	20 U	**2,000**	**130**	**1,900**	**230**
Indeno(1,2,3-cd)pyrene	600	690	930 U	**690**	**1,000**	**860**	**970**	**1,800**	**200**	NA	NA	**200**	120 U	**200**	20 U	**380**	90 U	**480**	**51**
Pyrene	2,600	3,300	**2,200**	**1,900**	**2,900**	**3,000**	**1,700**	**6,600**	**820**	NA	NA	**980**	**200**	**380**	20 U	**1,900**	**160**	**1,100**	**150**
Total HPAH	12,000	17,000	**7,860**	**9,850** NJ	**14,160**	**15,960**	**11,910**	**37,790**	**3,580** NJ	NA	NA	**4,330**	**550**	**3,159**	20 U	**8,720**	**410**	**9,000**	**1,101**
Phthalates (ug/kg DW)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**24,000**	**24,000**	**25,000**	**28,000**	**5,600**	**22,000**	**6,800**	NA	NA	**680**	**400**	**720**	**63**	**7,500**	**920**	**5,000**	**82**
Butylbenzylphthalate	63	900	930 U	**750** NJ	990 NJ	640 U	**300**	300 U	**1,900**	NA	NA	**76** U	120 U	20 U	20 U	**370**	90 U	250 U	20 U
Diethylphthalate	200		930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Dimethylphthalate	71	160	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	**30**	20 U	150 U	90 U	250 U	20 U
Di-n-butylphthalate	1,400	1,400	930 U	600 U	480 U	640 U	120	300 U	**320**	NA	NA	76 U	120 U	**30**	20 U	**590**	90 U	250 U	20 U
Di-n-octyl phthalate	6,200		2,300 NJ	2,300 NJ	2,500 NJ	**2,200**	**570** NJ	**1,400**	**1,100**	NA	NA	**76** U	120 U	20 U	20 U	**240**	90 U	**310**	20 U
PCBs (ug/kg dw)																			
Aroclor 1016			20 U	20 U	20 U	73 U	19 U	20 U	20 U	NA	NA	19 U	19 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1221			39 U	40 U	39 U	73 U	38 U	20 U	39 U	NA	NA	38 U	19 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1232			20 U	20 U	20 U	73 U	19 U	20 U	20 U	NA	NA	19 U	19 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1242			20 U	20 U	20 U	73 U	19 U	20 U	20 U	NA	NA	19 U	19 U	20 U	20 U	20 U	20 U	20 U	19 U
Aroclor 1248			59 Y	32 Y	100 Y	73 U	19 U	20 U	20 U	NA	NA	19 U	19 U	20 U	20 U	**36**	20 U	20 U	19 U
Aroclor 1254			**33**	**42**	**36**	**110**	**21** J	**25**	**22** J	NA	NA	**14** J	19 U	**67**	20 U	**59**	**37**	**25**	19 U
Aroclor 1260			**46**	**61**	**46**	200 Y	**22**	50 Y	**21** J	NA	NA	**11** J	19 U	**41**	20 U	**55**	**31**	**25**	19 U
Total PCBs	130	1,000	**79**	**103**	**82**	**110**	**43**	**25**	**43**	NA	NA	**25**	19 U	**108**	20 U	**150**	**68**	**50**	19 U
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
1,2-Dichlorobenzene	35	50	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
1,3-Dichlorobenzene			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
1,4-Dichlorobenzene	110	110	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
2,4,5-Trichlorophenol			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
2,4,6-Trichlorophenol			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U

DT-6: Inline sediment sample results (dry weight).

Station ID			MH1	MH1D	MH3	MH3b	MH4	MH4b	MH5	MH5-N3	MH6	MH7	MH7b	Norfolk20	Norfolk21	NST1	NST2	NST3	NST4
Lab Ref			FX12	FX12	FX12	HV81	FX12	HV81	FX12	FX12	FX12	FX12	HV81	HD88	HD88	LQ16	LQ16	LQ16	LQ16
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/ PS17 EOF	Norfolk CSO/SD/PS1 7 EOF	Norfolk CSO/SD/PS1 7 EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF
Date	**LAET**	**2LAET**	10/01/03	10/01/03	10/01/03	03/16/05	10/01/03	03/16/05	10/01/03	10/01/03	10/01/03	10/01/03	03/16/05	09/30/04	09/30/04	09/19/07	09/19/07	09/18/07	09/18/07
Total solids (%)			43.3	36.0	42.80	47.8	62.20	55.2	73.40	NA	64.4	78.10	77.1	63.7	70.8	68.7	75.9	56.0	67.7
2,4-Dichlorophenol			2,800 U	1,800 U	1,400 U	3,200 U	350 U	1,500 U	520 U	NA	NA	230 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
2,4-Dimethylphenol[a]	29	29	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
2,4-Dinitrophenol			9,300 U	6,000 U	4,800 U	6,400 U	1,200 U	3,000 U	1,700 U	NA	NA	760 U	1,200 U	200 U	200 U	1,500 U	900 U	2,500 U	200 U
2,4-Dinitrotoluene			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	**2,100**	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
2,6-Dinitrotoluene			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
2-Chloronaphthalene			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
2-Chlorophenol			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
2-Methylnaphthalene	670	670	930 U	600 U	**1,400**	**2,300**	**1,200**	**1,100**	**690**	NA	NA	76 U	120 U	**23**	20 U	**450**	90 U	250 U	20 U
2-Methylphenol[a]	63	63	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
2-Nitroaniline			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
2-Nitrophenol			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
3,3'-Dichlorobenzidine			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
3-Nitroaniline			5,600 U	3,600 U	2,900 U	3,200 U	700 U	1,500 U	1,000 U	NA	NA	460 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
4,6-Dinitro-2-methylphenol			9,300 U	6,000 U	4,800 U	6,400 U	1,200 U	3,000 U	1,700 U	NA	NA	760 U	1,200 U	200 U	200 U	1,500 U	900 U	2,500 U	200 U
4-Bromophenyl-phenylether			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
4-Chloro-3-methylphenol			1,900 U	1,200 U	960 U	3,200 U	230 U	1,500 U	350 U	NA	NA	150 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
4-Chloroaniline			2,800 U	1,800 U	1,400 U	3,200 U	350 U	1,500 U	520 U	NA	NA	230 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
4-Chlorophenyl-phenylether			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
4-Methylphenol[a]	670	670	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
4-Nitroaniline			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
4-Nitrophenol			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
Benzoic acid[a]	650	650	9,300 U	6,000 U	4,800 U	6,400 U	1,200 U	3,000 U	1,700 U	NA	NA	760 U	1,200 U	200 U	200 U	1,500 U	900 U	2,500 U	200 U
Benzyl alcohol[a]	57	73	930 U	600 U	480 U	3,900 U	120 U	380 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
bis(2-Chloroethoxy) methane			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Bis-(2-chloroethyl) ether			1,900 U	1,200 U	960 U	640 U	230 U	300 U	350 U	NA	NA	150 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Carbazole			930 U	600 U	480 U	640 U	**160**	**350**	170 U	NA	NA	**110**	120 U	**46**	20 U	150 U	90 U	250 U	**21**
Dibenzofuran	540	540	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Hexachlorobenzene	22	70	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Hexachlorobutadiene	11	120	930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Hexachlorocyclopentadiene			4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
Hexachloroethane			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Isophorone			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Nitrobenzene			930 U	600 U	480 U	640 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
n-Nitroso-di-n-propylamine			1,900 U	1,200 U	960 U	3,200 U	230 U	1,500 U	350 U	NA	NA	150 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
N-Nitrosodiphenylamine	28	40	930 U	600 U	480 U	640 U	120 U	300 U	**910**	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U
Pentachlorophenol[a]	360	690	4,600 U	3,000 U	2,400 U	3,200 U	580 U	1,500 U	870 U	NA	NA	380 U	580 U	98 U	99 U	730 U	450 U	1,200 U	99 U
Phenol[a]	420	1,200	930 U	600 U	480 U	660 U	120 U	300 U	170 U	NA	NA	76 U	120 U	20 U	20 U	150 U	90 U	250 U	20 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			NST1	NST3	NST1	NST2	NST3	NST4	NST1	NST2	NST3	NST4	NST1	NST2	NST3	NST4	RCB44	RCB45
Lab Ref			MN88	MN88	NS67	NQ67	NS67	NT39	OU68	OT13	OU68	OU44	PR79	PR79	PR79	PR79	HY59	HY59
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	Inline	Inline	Inline	Inline	SD	SD
Outfall			Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	2nd Ave S SD	2nd Ave S SD
Date	**LAET**	**2LAET**	03/18/08	03/18/08	10/02/08	09/23/08	10/02/08	10/08/08	04/08/09	03/31/09	04/08/09	04/07/09	10/07/09	10/07/09	10/07/09	10/07/09	04/13/05	04/13/05
Total solids (%)			46.5	44.9	56.0	81.0	79.2	74.6	55.4	87.5	39.0	70.9	44.2	82.4	60.8	78.9	69.1	65.6
TOC (%)			8.86	8.12	4.42	0.71	4.49	3.40	3.16	0.88	6.52	4.1	5.4	1.7	6.0	2.1	5.58	4.86
Metals (mg/kg DW)																		
Arsenic	57	93	10 U	10 U	**12**	**7**	6 U	7 U	8 UJ	**6** J	10 UJ	**7** J	10 UJ	**7** J	8 UJ	6 UJ	**11**	**23**
Copper	390	390	**109**	**90.7**	**110**	**32**	**39.2**	**17.2**	**28** J	**27**	**106** J	**19** J	**110** J	**51** J	**89** J	**18** J	**98.8**	**105**
Lead	450	530	**105**	**68**	**81**	**26**	**32**	**34**	**27** J	**22**	**69** J	**42** J	**76** J	**55** J	**62** J	**32** J	**113**	**87**
Mercury	0.41	0.59	**0.10**	**0.10**	**0.09**	**0.04** U	**0.05** U	0.05 U	**0.06** J	**0.04**	**0.09** J	0.05 UJ	**0.10** J	**0.06** J	**0.18** J	**0.03** J	**0.06**	0.07 U
Zinc	410	960	**650**	**657**	**540**	**196**	**289**	**88**	**188** J	**141**	**766** J	**107** J	**603** J	**344** J	**645** J	**74** J	**444**	**394**
Total petroleum hydrocarbons (mg/kg DW)																		
TPH-diesel	2,000[b]		NA	NA	**890**	**100**	**200**	7 U	**800**	64 U	**1,400**	64 U	**1,100** J	**770** J	**440** J	60 UJ	**600**	**880**
TPH-oil	2,000[b]		NA	NA	**3,500**	**280**	**1,200**	32	**3,500**	260 U	**8,100**	**130**	**4,700** J	**2,600** J	**2,400** J	120 UJ	**3,100**	**3,900**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	530 U	460 U	**59**	19 U	59 U	20 U	37 J	24 U	48 U	20 U	1,100 U	**71** J	59 U	**37** J	130 U	210 U
Acenaphthylene	1,300	1,300	530 U	460 U	**75**	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Anthracene	960	960	530 U	460 U	**130**	19 U	**51** J	20 U	150	**20** J	**72**	20 U	1,100 U	89 U	**94**	59 U	130 U	210 U
Fluorene	540	540	530 U	460 U	**65**	19 U	**59** U	20 U	66	**24**	48 U	20 U	1,100 U	**100**	**38** J	**55** J	130 U	210 U
Naphthalene	2,100	2,100	530 U	460 U	**40** J	19 U	59 U	20 U	**43** U	24 U	48 U	20 U	1,100 U	**140**	59 U	**93**	130 U	210 U
Phenanthrene	1,500	1,500	**860**	**570**	**660**	**44**	**360**	**53**	**720**	77 U	**420**	**37**	**1,100**	**200**	**470**	**85**	130 U	210 U
Total LPAH	5,200	5,200	**860**	**570**	**1,029**	**44**	**411** J	**53**	**973**	**44**	**492**	**37**	**1,100**	**511** J	**602** J	**270** J	**130**	**210**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**610**	**360** J	**420**	**26**	**310**	**43**	**390**	**42**	**200**	**31**	**950** J	**110**	**380**	**56** J	130 U	210 U
Benzo(a)pyrene	1,600	1,600	**800**	**510**	**580**	**29**	**440**	**89**	**710**	**42**	**430**	**43**	**1,200**	**190**	**420**	**82**	**270**	210 U
Benzo(b)fluoranthene	3,200	3,600	**1,300**	**1,200**	**600**	**46**	**660**	**120**	**970**	**43**	**560**	**72**	**1,100**	**140**	**580**	**89**	**300**	**230**
Benzo(g,h,i)perylene	670	720	**300** J	**240** J	**500**	**20**	**350**	**100**	**440**	**39**	**300**	**52**	**640** J	**120** J	**260**	**76** J	130 U	210 U
Benzo(k)fluoranthene	3,200	3,600	**1,000**	**610**	**560**	**40**	**440**	**120**	**940**	**49**	**670**	**49**	**1,100**	**140**	**580**	**89**	**230**	210 U
Chrysene	1,400	2,800	**1,200**	**880**	**660**	**66**	**530**	**110**	**1,100**	**68**	**710**	**69**	**1,600**	**260**	**560**	**120**	**220**	**220**
Dibenz(a,h)anthracene	230	230	530 U	460 U	**110**	19 U	**59** U	**17** J	140	24 U	**75**	**20** U	1,100 U	89 U	59 U	59 U	130 U	210 U
Fluoranthene	1,700	2,500	**2,400**	**1,700**	**1,000**	**94**	**840**	**150**	**1,500**	120 U	**970**	**100**	**2,500**	**450**	**1,000**	**200**	**340**	**390**
Indeno(1,2,3-cd)pyrene	600	690	**270** J	460 U	**420**	15 J	**300**	**100**	**380**	28 U	**240**	**42**	**610** J	**120** J	**270**	**79** J	130 U	210 U
Pyrene	2,600	3,300	**1,600**	**1,000**	**990**	**80**	**670**	**100**	**2,200**	**130**	**1,400**	**74**	**1,900**	**280**	**620**	**130**	**240**	**290**
Total HPAH	12,000	17,000	**9,480** J	**6,500** J	**5,840**	**416** J	**4,540**	**949**	**8,770**	**413**	**5,555**	**532**	**11,600** J	**1,810** J	**4,670**	**921** J	**1,600**	**1,130**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**14,000**	**13,000**	**3,700**	**490**	**1,500**	**53**	**5,200**	**360**	**5,100**	**44**	**12,000** B	**1,600** B	**4,400** B	73 U	**1,600**	**7,800**
Butylbenzylphthalate	63	900	530 U	**310** J	**130**	19 U	**110**	20 U	**140**	24 U	**290**	20 U	1,100 U	89 U	**400**	59 U	**200**	210 U
Diethylphthalate	200		530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	**160**	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Dimethylphthalate	71	160	530 U	460 U	**34** J	**48**	59 U	20 U	**25** J	24 U	48 U	20 U	1,100 U	89 U	**33** J	59 U	130 U	210 U
Di-n-butylphthalate	1,400	1,400	530 U	460 U	**84**	19 U	**48** J	20 U	**40** J	24 U	**40** J	20 U	1,100 U	89 U	**93**	59 U	**37,000** B	**370** B
Di-n-octyl phthalate	6,200		**3,600**	**960**	**850**	**19** U	**52** J	20 U	**1,200**	**24**	**420**	20 U	**3,200**	89 U	**170** J	59 U	130 U	210 U
PCBs (ug/kg dw)																		
Aroclor 1016			940 U	970 U	20 U	20 U	20 U	20 U	30 U	20 U	20 U	20 U	20 U	19 U	19 U	18 U	59 U	20 U
Aroclor 1221			940 U	970 U	20 U	20 U	20 U	20 U	30 U	20 U	20 U	20 U	20 U	19 U	19 U	18 U	120 Y	20 U
Aroclor 1232			940 U	970 U	20 U	20 U	20 U	20 U	30 U	20 U	20 U	20 U	20 U	19 U	19 U	18 U	59 U	20 U
Aroclor 1242			940 U	970 U	20 U	20 U	20 U	20 U	30 U	20 U	20 U	20 U	20 U	19 U	19 U	18 U	59 U	20 U
Aroclor 1248			940 U	970 U	20 U	20 U	20 U	20 U	30 U	20 U	20 U	20 U	20 U	19 U	19 U	18 U	59 U	20 U
Aroclor 1254			940 U	970 U	**47**	20 U	20 U	20 U	**44**	20 U	**26**	20 U	**57**	**31**	**56**	18 U	**100**	**48** P
Aroclor 1260			940 U	970 U	**26**	20 U	20 U	20 U	30 U	20 U	20 U	20 U	**47**	**26**	**52**	18 U	**150**	**74**
Total PCBs	130	1,000	940 U	970 U	**73**	20 U	20 U	20 U	**44**	20 U	**26**	20 U	**104**	**57**	**108**	18 U	**250**	**122** P
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
1,2-Dichlorobenzene	35	50	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
1,3-Dichlorobenzene			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
1,4-Dichlorobenzene	110	110	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
1-Methylnaphthalene													1,100 U	89 U	59 U	59 U		
2,2'-Oxybis(1-chloropropane)			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
2,4,5-Trichlorophenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
2,4,6-Trichlorophenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U

DT-6: Inline sediment sample results (dry weight).

Station ID			NST1	NST3	NST1	NST2	NST3	NST4	NST1	NST2	NST3	NST4	NST1	NST2	NST3	NST4	RCB44	RCB45
Lab Ref			MN88	MN88	NS67	NQ67	NS67	NT39	OU68	OT13	OU68	OU44	PR79	PR79	PR79	PR79	HY59	HY59
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	Inline	Inline	Inline	Inline	SD	SD
Outfall			Norfolk CSO/SD/ EOF	Norfolk CSO/SD/ EOF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	Norfolk CSO/SD/E OF	2nd Ave S SD	2nd Ave S SD
Date	**LAET**	**2LAET**	03/18/08	03/18/08	10/02/08	09/23/08	10/02/08	10/08/08	04/08/09	03/31/09	04/08/09	04/07/09	10/07/09	10/07/09	10/07/09	10/07/09	04/13/05	04/13/05
Total solids (%)			46.5	44.9	56.0	81.0	79.2	74.6	55.4	87.5	39.0	70.9	44.2	82.4	60.8	78.9	69.1	65.6
2,4-Dichlorophenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
2,4-Dimethylphenol[a]	29	29	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
2,4-Dinitrophenol			5,300 U	4,600 U	580 U	190 U	590 U	200 U	430 U	240 U	480 U	200 U	11,000 U	890 U	590 U	590 U	1,300 U	2,100 U
2,4-Dinitrotoluene			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	**29,000**	1,000 U
2,6-Dinitrotoluene			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	**490** J	1,000 U
2-Chloronaphthalene			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
2-Chlorophenol			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
2-Methylnaphthalene	670	670	530 U	460 U	**52** J	**10** J	59 U	20 U	**42** J	24 U	48 U	20 U	1,100 U	**62** J	59 U	37 J	130 U	210 U
2-Methylphenol[a]	63	63	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
2-Nitroaniline			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
2-Nitrophenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
3,3'-Dichlorobenzidine			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000
3-Nitroaniline			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
4,6-Dinitro-2-methylphenol			5,300 U	4,600 U	580 U	190 U	590 U	200 U	430 U	240 U	480 U	200 U	11,000 U	890 U	590 U	590 U	1,300 U	2,100 U
4-Bromophenyl-phenylether			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
4-Chloro-3-methylphenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
4-Chloroaniline			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
4-Chlorophenyl-phenylether			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
4-Methylphenol[a]	670	670	530 U	**4,400**	58 U	**54**	59 U	20 U	43 U	24 U	**1,000**	20 U	1,100 U	89 U	**620**	59 U	130 U	210 U
4-Nitroaniline			2,600 U	2,300 U	290 U	**96** U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
4-Nitrophenol			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
Benzoic acid[a]	650	650	5,300 U	4,600 U	580 U	190 U	590 U	200 U	430 U	240 U	**390** J	200 U	11,000 U	890 U	590 U	590 U	1,300 U	2,100 U
Benzyl alcohol[a]	57	73	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
bis(2-Chloroethoxy) methane			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Bis-(2-chloroethyl) ether			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Carbazole			530 U	460 U	**110**	19 U	**81**	**15** J	**130**	24 U	**96**	**10** J	1,100 U	89 U	**98**	59 U	130 U	210 U
Dibenzofuran	540	540	530 U	460 U	**34** J	19 U	59 U	20 U	**26** J	**24**	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Hexachlorobenzene	22	70	530 U	460 U	**58** U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Hexachlorobutadiene	11	120	530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Hexachlorocyclopentadiene			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
Hexachloroethane			530 U	460 U	58 U	19 U	59 U	20 U	43 U	**24**	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Isophorone			530 U	460 U	58 U	19 U	59 U	20 U	43 U	**24** J	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
Nitrobenzene			530 U	460 U	58 U	19 U	59 U	20 U	43 U	24 U	48 U	20 U	1,100 U	89 U	59 U	59 U	130 U	210 U
n-Nitroso-di-n-propylamine			2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	120 U	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
N-Nitrosodiphenylamine	28	40	530 U	460 U	58 U	19 U	59 U	20 U	43 U	**24**	48 U	20 U	1,100 U	89 U	59 U	59 U	**24,000**	210 U
Pentachlorophenol[a]	360	690	2,600 U	2,300 U	290 U	96 U	300 U	97 U	220 U	**120**	240 U	98 U	5,500 U	440 U	300 U	300 U	650 U	1,000 U
Phenol[a]	420	1,200	530 U	**470**	58 U	19 U	59 U	20 U	**37** J	**24**	**140** J	20 U	1,100 U	89 U	59 U	59 U	**130**	210 U

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			MH20	MH21B	MH22	MH100-S	MH100-B	MH221A-S	MH221A-B	MH363-S	MH363-B	CB229A-S	CB229A-B	SL4-T2A	MH32	T1	T2
Lab Ref			HY59	HY59	HY59	HS95	Boeing	HS95	Boeing	HS95	Boeing	HS95	Boeing	OU44	IJ98	HEC	HEC
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	#N/A	SD	#N/A	SD	SD	SD	SD
Outfall			7th Ave S SD	7th Ave S SD	7th Ave S SD	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/P S44 EOF	WSDOT I5 SD	Flume	Flume
Date	**LAET**	**2LAET**	04/13/05	04/13/05	04/13/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	04/07/09	08/11/05	03/24/05	03/24/05
Total solids (%)			40.4	47.6	40.1	39.3	38.8	78.9	75.7	79.0	79.9	69.1	66.6	32.3	81.7	54.1	72
TOC (%)			7.74	8.90	6.27	6.67	6.60	1.09	1.00	1.11	0.76	4.34	3.88	1.34	0.74	3.92	1.43
Metals (mg/kg DW)																	
Arsenic	57	93	**20**	**30**	**20**	**20** J	**20**	**40** J	**12**	**9** J	**8**	**30** J	**30**	10 UJ	10 UJ	**11**	7 U
Copper	390	390	**175**	**148**	**129**	**88.9** J	**102.0**	**126** J	**38.5**	**64.1** J	**45.1**	**69.7** J	**85.5**	**58.9** J	**61.2** J	**63.2**	**18.5**
Lead	450	530	**151**	**130**	**119**	**134** J	**142**	**94** J	**50**	**51** J	**110**	**120** J	**155**	**34** J	**207** J	**99**	**14**
Mercury	0.41	0.59	**0.17**	**0.2**	**0.2**	**0.2** J	**0.2**	**0.09** J	**0.09**	**0.48** J	**0.7**	**0.07** J	**0.07**	0.1 UJ	0.05 UJ	**0.1**	0.05 U
Zinc	410	960	**547**	**515**	**575**	**377** J	**411**	**572** J	**332**	**208** J	**272**	**699** J	**1,130**	**202**	**186** J	**218**	**54**
Total petroleum hydrocarbons (mg/kg DW)																	
TPH-diesel	2,000[b]		**720**	**560**	**380**	**88**	**190**	**120**	**210**	**120**	**190**	**110**	**1,000**	**250**	**120** U	**36**	**21**
TPH-oil	2,000[b]		**2,900**	**3,100**	**1,900**	**380**	**1,980**	**270**	**1,490**	**680**	**7,000**	**380**	**5,600**	**1,100**	**290**	**140**	**99**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**800**	**930**	20 U	20 U	**270**	20 U
Acenaphthylene	1,300	1,300	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**86**	220 U	20 U	20 U	**150**	20 U
Anthracene	960	960	350 U	290 U	240 U	100 U	**140**	180 U	**71**	**65**	59 U	**770**	**1,200**	**21**	20 U	**640**	**53**
Fluorene	540	540	350 U	290 U	240 U	100 U	59 U	180 U	**73**	59 U	59 U	**810**	**1,100**	20 U	20 U	**240**	20 U
Naphthalene	2,100	2,100	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**76**	220 U	20 U	20 U	**310**	20 U
Phenanthrene	1,500	1,500	350 U	290 U	**590**	**500**	**250**	**440**	**300**	**400**	**260**	**6,100**	**8,900**	**190**	**22**	**4,500**	**44**
Total LPAH	5,200	5,200	**350**	**290**	**590**	**500**	**390**	**440**	**444**	**465**	**260**	**8,642**	**12,130**	**211**	**22**	**6,110**	**97**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**390**	290 U	**560**	**320**	**380**	**330**	**280**	**340**	**280**	**1,900**	**3,000**	**140**	20 U	**1,300**	**100**
Benzo(a)pyrene	1,600	1,600	**500**	**310**	**760**	**290**	**480**	**470**	**400**	**330**	**300**	**2,000**	**3,400**	**150**	**26**	**1,300**	**240**
Benzo(b)fluoranthene	3,200	3,600	**870**	**460**	**1,100**	**500**	**760**	**740**	**710**	**520**	**450**	**3,300**	**5,400**	**220**	**34**	**1,600**	**240**
Benzo(g,h,i)perylene	670	720	350 U	290 U	**290**	**210**	**200**	**310**	**230**	**170**	**170**	**840**	**1,300**	**66**	20 U	**570**	**92**
Benzo(k)fluoranthene	3,200	3,600	**580**	**380**	**890**	**280**	**460**	**370**	**400**	**280**	**310**	**2,000**	**3,600**	**300**	20 U	**1,600**	**270**
Chrysene	1,400	2,800	**720**	**380**	**940**	**570**	**620**	**600**	**490**	**500**	**400**	**2,600**	**4,200**	**270**	**31**	**2,300**	**160**
Dibenz(a,h)anthracene	230	230	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**370**	220 U	**25**	20 U	**230**	**34**
Fluoranthene	1,700	2,500	**1,400**	**570**	**1,900**	**980**	**880**	**1,100**	**920**	**840**	**750**	**6,700**	**11,000**	**540**	**44**	**6,300**	**200**
Indeno(1,2,3-cd)pyrene	600	690	350 U	290 U	**240**	**240**	180	**380**	**260**	**190**	**180**	**980**	**1,500**	**73**	20 U	**660**	**91**
Pyrene	2,600	3,300	**1,000**	**430**	**1,200**	**750**	**810**	**800**	**870**	**630**	**660**	**4,900**	**7,600**	**300**	**50**	**3,200**	**130**
Total HPAH	12,000	17,000	**5,460**	**2,530**	**7,880**	**4,140**	**4,770**	**5,100**	**4,560**	**3,800**	**3,500**	**25,590**	**41,000**	**2,084**	**185**	**19,060**	**1,557**
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**6,400**	**3,800**	**6,100**	**1,500**	**2,000**	**800**	**760**	**430**	**500**	**1,200**	**2,200**	**160**	**180**	**2,000**	**140**
Butylbenzylphthalate	63	900	350 U	290 U	**680**	**140**	**86**	180 U	58 U	59 U	59 U	**62**	220 U	20 U	20 U	**110**	20 U
Diethylphthalate	200		350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
Dimethylphthalate	71	160	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
Di-n-butylphthalate	1,400	1,400	350 U	290 U	280 U	100 U	59 U	180 U	58 U	59 U	59 U	**110**	220 U	20 U	20 U	**87**	20 U
Di-n-octyl phthalate	6,200		350 U	290 U	240 U	100 U	**71**	180 U	**120**	**59**	**69**	**130**	**240**	20 U	20 U	60 U	20 U
PCBs (ug/kg dw)																	
Aroclor 1016			270 U	42 U	20 U	220 U	95 U	120 U	120 U	1,200 Y	950 U	19 U	140 U	20 U	19 U	59 U	8 U
Aroclor 1221			270 U	42 U	20 U	220 U	95 U	120 U	120 U	470 U	480 U	19 U	140 U	20 U	19 U	59 U	8 U
Aroclor 1232			270 U	42 U	20 U	220 U	95 U	120 U	120 U	1,400 Y	1,400 U	19 U	140 U	20 U	19 U	59 U	8 U
Aroclor 1242			270 U	42 U	20 U	220 U	95 U	120 U	120 U	940 Y	950 U	19 U	140 U	20 U	19 U	59 U	8 U
Aroclor 1248			270 U	42 U	20 U	220 U	95 U	120 U	120 U	2,400 Y	950 U	19 U	140 U	20 U	19 U	59 U	**12**
Aroclor 1254			270 U	**84** J	**55** P	**1,000**	**1,600**	**590**	**960**	**31,000**	**7,000**	**150**	**3,700**	20 U	19 U	**190**	**26** J
Aroclor 1260			**440**	**190**	**64**	**820** J	**380** P	**410**	**530**	3,800 Y	950 U	**160** J	**1,900**	**27**	19 U	**140**	**28**
Total PCBs	130	1,000	**440**	**274** J	**119** P	**1,820** J	**1,980** P	**1,000**	**1,490**	**31,000**	**7,000**	**310** J	**5,600**	**27**	19 U	**330**	**66** J
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
1,2-Dichlorobenzene	35	50	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
1,3-Dichlorobenzene			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
1,4-Dichlorobenzene	110	110	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
1-Methylnaphthalene																	
2,2'-Oxybis(1-chloropropane)			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
2,4,5-Trichlorophenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
2,4,6-Trichlorophenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA

DT-6: Inline sediment sample results (dry weight).

Station ID			MH20	MH21B	MH22	MH100-S	MH100-B	MH221A-S	MH221A-B	MH363-S	MH363-B	CB229A-S	CB229A-B	SL4-T2A	MH32	T1	T2
Lab Ref			HY59	HY59	HY59	HS95	Boeing	HS95	Boeing	HS95	Boeing	HS95	Boeing	OU44	IJ98	HEC	HEC
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	#N/A	SD	#N/A	SD	SD	SD	SD
Outfall			7th Ave S SD	7th Ave S SD	7th Ave S SD	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/PS 44 EOF	KCSD#3/P S44 EOF	WSDOT I5 SD	Flume	Flume
Date	**LAET**	**2LAET**	04/13/05	04/13/05	04/13/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	02/16/05	04/07/09	08/11/05	03/24/05	03/24/05
Total solids (%)			40.4	47.6	40.1	39.3	38.8	78.9	75.7	79.0	79.9	69.1	66.6	32.3	81.7	54.1	72
2,4-Dichlorophenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
2,4-Dimethylphenol[a]	29	29	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
2,4-Dinitrophenol			3,500 U	2,900 U	2,400 U	1,000 U	590 U	1,800 U	580 U	590 U	290 U	610 U	2,200 U	200 U	200 U	NA	NA
2,4-Dinitrotoluene			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
2,6-Dinitrotoluene			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
2-Chloronaphthalene			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
2-Chlorophenol			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
2-Methylnaphthalene	670	670	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**620**	660 U	20 U	20 U	NA	NA
2-Methylphenol[a]	63	63	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
2-Nitroaniline			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
2-Nitrophenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
3,3'-Dichlorobenzidine			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
3-Nitroaniline			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
4,6-Dinitro-2-methylphenol			3,500 U	2,900 U	2,400 U	1,000 U	590 U	1,800 U	580 U	590 U	590 U	610 U	2,200 U	200 U	200 U	NA	NA
4-Bromophenyl-phenylether			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
4-Chloro-3-methylphenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
4-Chloroaniline			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
4-Chlorophenyl-phenylether			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
4-Methylphenol[a]	670	670	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	**94**	20 U	**34** J	20 U
4-Nitroaniline			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
4-Nitrophenol			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
Benzoic acid[a]	650	650	3,500 U	2,900 U	2,400 U	1,000 U	590 U	1,800 U	580 U	590 U	590 U	610 U	2,200 U	200 U	200 U	600 U	200 U
Benzyl alcohol[a]	57	73	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	**170**	20 U
bis(2-Chloroethoxy) methane			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
Bis-(2-chloroethyl) ether			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
Carbazole			350 U	290 U	240 U	100 U	**110**	180 U	58 U	**69**	**68**	**890**	**1,500**	**49**	20 U	NA	NA
Dibenzofuran	540	540	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	**490**	**560**	20 U	20 U	**270**	20 U
Hexachlorobenzene	22	70	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
Hexachlorobutadiene	11	120	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
Hexachlorocyclopentadiene			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
Hexachloroethane			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
Isophorone			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
Nitrobenzene			350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	NA	NA
n-Nitroso-di-n-propylamine			1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	1,100 U	99 U	99 U	NA	NA
N-Nitrosodiphenylamine	28	40	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	20 U	20 U	60 U	20 U
Pentachlorophenol[a]	360	690	1,700 U	1,400 U	1,200 U	520 U	300 U	870 U	290 U	290 U	290 U	310 U	**1,100**	99 U	99 U	300 U	98 U
Phenol[a]	420	1,200	350 U	290 U	240 U	100 U	59 U	180 U	58 U	59 U	59 U	61 U	220 U	**94**	20 U	60 U	20 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			T2-D	T3	T4	T6	P1	P2	P3	P4	P5	M1	M2	M3	M4	M5	T2	T2b
Lab Ref			HEC	HEC	HEC	HEC	HEC	HEC	HEC	HEC	HEC	Tt	Tt	Tt	Tt	Tt	Tt	Tt
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Flume	Flume	Flume	Flume	Flume	Flume	Flume	Flume	Flume	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	03/24/05	03/25/05	03/24/05	03/25/05	03/25/05	03/25/05	03/25/05	03/24/05	03/24/05	01/25/02	01/25/02	01/28/02	01/25/02	01/28/02	01/25/02	02/28/02
Total solids (%)			71.6	68.3	45	65.5	72.4	46.8	32.1	70.6	86.7	81	80	83	85	89	84	73
TOC (%)			8.71	1.17	2.25	2.68	0.71	2.47	5.27	0.77	6.86	0.38	0.54	0.54	0.38	0.63	0.54	2.64
Metals (mg/kg DW)																		
Arsenic	57	93	7 U	7 U	**40**	7 U	7 U	**13**	**20**	6 U	10 U	12 U	13 U	12 U	12 U	12 U	11 U	**12**
Copper	390	390	**20.2**	**54.6**	**314** J	**79.6**	**18**	**56.6**	**133**	**12.8**	**95.1**	**39**	**43**	**33**	**34**	**24**	**160**	**30**
Lead	450	530	**15**	**263**	**590** J	**61**	**16**	**69**	**501**	**10**	**73**	**37**	**140**	**33**	**18**	**47**	**23**	**16**
Mercury	0.41	0.59	0.05 U	**0.41**	**1.7**	**0.08**	0.05 U	**0.18**	**1.0**	0.06 U	**0.08**	0.31 U	0.31 U	0.3 U	0.3 U	0.29 U	0.28 U	0.3 U
Zinc	410	960	**61**	**180**	**1,130**	**240**	**61**	**238**	**766**	**53**	**195**	**250**	**240**	**200**	**170**	**280**	**130**	**85**
Total petroleum hydrocarbons (mg/kg DW)																		
TPH-diesel	2,000[b]		**19**	**84**	**2,300**	**120**	**14**	**63**	**250**	**9**	**1,600**	**77**	**63**	**82**	**37**	28 U	30 U	**680**
TPH-oil	2,000[b]		**70**	**460**	**9,700**	**670**	**66**	**360**	**1,100**	**61**	**3,000**	**420**	**560**	**420**	**360**	**470**	**150**	**2,700**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**24**	**380**	**660**	**67**	20 U	58 U	120 U	19 U	1,600 U	**91**	78 U	79 U	78 U	77 U	20 U	110 U
Acenaphthylene	1,300	1,300	**21**	**230**	**2,700**	**34** J	**28**	**92**	120 U	**19**	1,600 U	78 U	78 U	79 U	78 U	77 U	20 U	110 U
Anthracene	960	960	**91**	**590**	**2,500**	**220**	**97**	**270**	**130**	**69**	1,600 U	**150**	**89**	79 U	78 U	77 U	20 U	110 U
Fluorene	540	540	20 U	**530**	**1,900**	**66**	20 U	**42** J	120 U	19 U	1,600 U	**92**	78 U	79 U	78 U	77 U	20 U	110 U
Naphthalene	2,100	2,100	20 U	**97**	**2,400**	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	78 U	79 U	78 U	77 U	20 U	110 U
Phenanthrene	1,500	1,500	**67**	**6,200**	**11,000**	**740**	**96**	**250**	**510**	**140**	1,600 U	**660**	**360**	79 U	78 U	77 U	**54**	**470**
Total LPAH	5,200	5,200	**203**	**8,027**	**21,160**	**1,127** J	**221**	**654** J	**640**	**228**	**1,600**	**993**	**449**	**79**	**78**	**77**	**54**	**470**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**150**	**1,400**	**7,900**	**520**	**150**	**370**	**370**	**73**	1,600 U	**340**	**770**	79 U	78 U	77 U	**31**	**300**
Benzo(a)pyrene	1,600	1,600	**310**	**490**	**8,600**	**560**	**130**	**290**	**450**	**83**	1,600 U	**330**	**1,700**	79 U	78 U	77 U	**37**	**410**
Benzo(b)fluoranthene	3,200	3,600	**350**	**850**	**11,000**	**640**	**140**	**520**	**640**	**100**	1,600 U	**300**	**1,500**	**82**	78 U	**110**	**41**	**630**
Benzo(g,h,i)perylene	670	720	**130**	**200**	**2,500**	**210**	**52**	**120**	**190**	**33**	1,600 U	**140**	**900**	79 U	78 U	77 U	**21**	**190**
Benzo(k)fluoranthene	3,200	3,600	**290**	**1,000**	**9,400**	**790**	**230**	**540**	**500**	**140**	1,600 U	**360**	**1,300**	**86**	78 U	**85**	**56**	**410**
Chrysene	1,400	2,800	**210**	**1,500**	**8,400**	**750**	**230**	**650**	**540**	**160**	**810** J	**380**	**1,100**	**100**	78 U	**94**	**54**	**590**
Dibenz(a,h)anthracene	230	230	**41**	**45** J	**1,000**	**54** J	20 U	**33** J	120 U	19 U	1,600 U	78 U	**210**	79 U	78 U	77 U	20 U	110 U
Fluoranthene	1,700	2,500	**260**	**6,100**	**18,000**	**1,600**	**530**	**1,200**	**1,100**	**490**	**1,000**	**820**	**900**	**150**	78 U	**130**	**74**	**1,300**
Indeno(1,2,3-cd)pyrene	600	690	**120**	**220**	**3,000**	**210**	**57**	**120**	**210**	**32**	1,600 U	**160**	**1,000**	79 U	78 U	77 U	**23**	**170**
Pyrene	2,600	3,300	**180**	**3,300**	**14,000**	**1,200**	**300**	**850**	**960**	**230**	**1,200**	**630**	**810**	**160**	78 U	**130**	**71**	**810**
Total HPAH	12,000	17,000	**2,041**	**15,105** J	**83,800**	**6,534** J	**1,819**	**4,693** J	**4,960**	**1,341**	**3,010** J	**3,460**	**10,190**	**578**	78 U	**549**	**408**	**4,810**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**140**	**580**	**210**	**2,000**	**120**	**560**	**2,100**	**140**	**3,800**	**1,000**	**5,100**	**670**	**330**	**710**	**230**	**3,800**
Butylbenzylphthalate	63	900	20 U	59 U	200 U	**100**	20 U	58 U	**160**	19 U	1,600 U	78 U	78 U	79 U	78 U	77 U	**23**	110 U
Diethylphthalate	200		20 U	59 U	200 U	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	78 U	79 U	78 U	77 U	20 U	110 U
Dimethylphthalate	71	160	20 U	59 U	200 U	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	78 U	79 U	78 U	77 U	**140**	110 U
Di-n-butylphthalate	1,400	1,400	20 U	**60**	200 U	59 U	**24**	**69**	**140**	19 U	1,600 U	78 U	78 U	79 U	78 U	77 U	20 U	110 U
Di-n-octyl phthalate	6,200		20 U	59 U	200 U	64	20 U	**230**	**140**	19 U	1,600 U	78 U	**120**	**130**	78 U	77 U	20 U	**230**
PCBs (ug/kg dw)																		
Aroclor 1016			4 U	2,800 U	240 U	40 U	12 U	79 U	26,000 U	4 U	240 U	62 U	63 U	60 U	59 U	56 U	60 U	79 U
Aroclor 1221			4 U	2,800 U	240 U	40 U	12 U	79 U	26,000 U	8 U	240 U	62 U	63 U	60 U	59 U	56 U	60 U	79 U
Aroclor 1232			4 U	2,800 U	240 U	40 U	12 U	79 U	26,000 U	8 U	240 U	62 U	63 U	60 U	59 U	56 U	60 U	79 U
Aroclor 1242			4 U	2,800 U	240 U	40 U	12 U	79 U	26,000 U	4 U	240 U	62 U	63 U	60 U	59 U	56 U	60 U	79 U
Aroclor 1248			**12**	2,800 U	**1,500** J	79 U	**28**	**210**	26,000 U	**6**	240 U	62 U	63 U	60 U	59 U	56 U	60 U	79 U
Aroclor 1254			**29** J	**3,900**	**1,700**	**240**	**56** J	**450**	**92,000**	**14**	470 U	62 U	63 U	60 U	59 U	56 U	60 U	**620**
Aroclor 1260			**24**	2,800 U	**540**	**160**	**36**	**120**	26,000 U	**18**	**1,500**	62 U	63 U	60 U	59 U	56 U	60 U	**320**
Total PCBs	130	1,000	**65** J	**3,900**	**3,740** J	**400**	**120** J	**780**	**92,000**	**38**	**1,500**	62 U	63 U	60 U	59 U	56 U	60 U	**940**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	780 U	79 U	79 U	78 U	77 U	20 U	110 U
1,2-Dichlorobenzene	35	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	78 U	79 U	79 U	78 U	77 U	20 U	110 U
1,3-Dichlorobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	110	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	78 U	79 U	79 U	78 U	77 U	20 U	110 U
1-Methylnaphthalene																		
2,2'-Oxybis(1-chloropropane)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DT-6: Inline sediment sample results (dry weight).

Station ID			T2-D	T3	T4	T6	P1	P2	P3	P4	P5	M1	M2	M3	M4	M5	T2	T2b
Lab Ref			HEC	HEC	HEC	HEC	HEC	HEC	HEC	HEC	HEC	Tt	Tt	Tt	Tt	Tt	Tt	Tt
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Flume	Flume	Flume	Flume	Flume	Flume	Flume	Flume	Flume	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	03/24/05	03/25/05	03/24/05	03/25/05	03/25/05	03/25/05	03/25/05	03/24/05	03/24/05	01/25/02	01/25/02	01/28/02	01/25/02	01/28/02	01/25/02	02/28/02
Total solids (%)			71.6	68.3	45	65.5	72.4	46.8	32.1	70.6	86.7	81	80	83	85	89	84	73
2,4-Dichlorophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol[a]	29	29	20 U	59 U	**190** J	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	240 U	240 U	230 U	230 U	59 U	340 U
2,4-Dinitrophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	670	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	160 U	79 U	79 U	78 U	77 U	20 U	20 U
2-Methylphenol[a]	63	63	20 U	59 U	**180** J	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	79 U	79 U	78 U	77 U	20 U	230 U
2-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol[a]	670	670	20 U	**30** J	**510**	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	**180**	79 U	78 U	77 U	20 U	230 U
4-Nitroaniline			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid[a]	650	650	20 U	590 U	2,000 U	590 U	200 U	**750** J	1,200 U	190 U	16,000 U	780 U	790 U	790 U	780 U	770 U	200 U	570 U
Benzyl alcohol[a]	57	73	20 U	59 U	200 U	59 U	20 U	**320**	120 U	19 U	1,600 U	390 U	400 U	390 U	390 U	390 U	98 U	570 U
bis(2-Chloroethoxy) methane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis-(2-chloroethyl) ether			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	540	540	20 U	**430**	**980**	**31** J	20 U	58 U	120 U	19 U	1,600 U	78 U	79 U	79 U	78 U	77 U	20 U	110 U
Hexachlorobenzene	22	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	78 U	79 U	79 U	78 U	77 U	20 U	20 U
Hexachlorobutadiene	11	120	20 U	59 U	200 U	59 U	20 U	58 U	120 U	19 U	1,600 U	160 U	160 U	160 U	160 U	150 U	39 U	39 U
Hexachlorocyclopentadiene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Nitroso-di-n-propylamine			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	28	40	20 U	59 U	200 U	59 U	20 U	58 U	120 U	19 U	1,600 U	78 U	79 U	79 U	78 U	77 U	20 U	20 U
Pentachlorophenol[a]	360	690	99 U	300 U	980 U	300 U	98 U	290 U	590 U	97 U	7,800 U	78 U	400 U	390 U	390 U	390 U	98 U	98 U
Phenol[a]	420	1,200	20 U	59 U	**270**	59 U	20 U	58 U	120 U	19 U	1,600 U	160 U	160 U	160 U	160 U	150 U	39 U	230 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			T3a	T6b	T8b	MH8	MH9	MH10	MH11	MH12	MH12D	MH14	MH15	MH15-D	MH17	MH18	MH19	MH21A
Lab Ref			Tt	Tt	Tt	FX91	FX91	FX91	FX91	FZ55	FZ55	GI79	GI79	GI79	GI79	GI79	GX22	HH16
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	02/28/02	02/28/02	02/28/02	10/13/03	10/13/03	10/13/03	10/13/03	10/27/03	10/27/03	02/18/04	02/18/04	02/18/04	02/20/04	02/20/04	07/30/04	10/29/04
Total solids (%)			43	69	75	79.8	84.2	32.7	63.6	80.7	79.3	76.5	80.9	81.2	78.6	60.1	41.1	56.2
TOC (%)			7.33	5.70	1.98	0.39	0.42	7.30	3.50	1.17	0.46	0.63	1.30	0.96	4.10	9.50	3.97	4.16
Metals (mg/kg DW)																		
Arsenic	57	93	16 U	**23**	14 U	6 UJ	30 UJ	10 UJ	8 UJ	6 U	6 U	7 U	6 U	**17**	7 U	**9**	20 U	**22**
Copper	390	390	**81**	**280**	**94**	**67.3** J	**220** J	**134** J	**70.2** J	**126**	**140**	**28.9** J	**32.7** J	**49.6** J	**94.9** J	**152** J	**340**	**269**
Lead	450	530	**130**	**200**	**100**	**92** J	**50** J	**318** J	**117** J	**28**	**43**	**119** J	**15** J	**27** J	**70** J	**538** J	**752**	**4,910**
Mercury	0.41	0.59	0.4 U	0.58 U	0.36 U	0.05 UJ	0.05 UJ	**0.2** J	**0.12** J	0.05 U	0.05 U	0.05 U	0.05 U	**0.1**	**0.08**	**1.02**	**3.3**	**1.75**
Zinc	410	960	**230**	**460**	**580**	**257** J	**192** J	**637** J	**334** J	**286**	**264**	**119** J	**155** J	**233** J	**296** J	**293** J	**718**	**463**
Total petroleum hydrocarbons (mg/kg DW)																		
TPH-diesel	2,000[b]		**6,300**	180 U	170 U	**35**	**49**	**7,300**	**120**	**66**	**72**	**62**	**85**	**80**	**310**	**390**	NA	**370**
TPH-oil	2,000[b]		**9,100**	**13,000**	**2,300**	**150**	**190**	**9,100**	**260**	**250**	**260**	**380**	**390**	**380**	**1,500**	**1,900**	NA	**1,200**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	290 U	230 U	98 U	20 U	19 U	**760**	39 U	39 U	39 U	78 U	**43** J	79 U	**120**	**140**	140 U	NA
Acenaphthylene	1,300	1,300	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Anthracene	960	960	290 U	230 U	98 U	20 U	24	**840**	67	**84**	**40**	78 U	**53** J	**49** J	79 U	**250**	140 U	NA
Fluorene	540	540	290 U	230 U	98 U	20 U	19 U	**1,200**	41	39 U	39 U	78 U	**53** J	79 U	**81**	**140**	140 U	NA
Naphthalene	2,100	2,100	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	**50** J	**41** J	140 U	NA
Phenanthrene	1,500	1,500	**910**	**790**	**490**	**39**	**110**	**4,200**	**130**	**340**	**230**	78 U	**560**	**330**	**210**	**1,400**	**450**	NA
Total LPAH	5,200	5,200	**910**	**790**	**490**	**39**	**134**	**7,000**	**238**	**424**	**270**	78 U	**709** J	**379** J	**461** J	**1,971** J	**450**	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**530**	**490**	**400**	16 J	**29**	**510** J	**58**	**110**	**110**	78 U	**220**	**200**	**110**	**750**	**340**	NA
Benzo(a)pyrene	1,600	1,600	**670**	**550**	**470**	**40**	**70**	**1,100**	**100**	**250**	**120**	78 U	**200**	**210**	**130**	**730**	**400**	NA
Benzo(b)fluoranthene	3,200	3,600	**1,000**	**780**	**570**	**33**	**76**	**1,200**	**110**	**150**	**100**	78 U	**230**	**250**	**180**	**740**	**260**	NA
Benzo(g,h,i)perylene	670	720	**440**	230 U	**150**	28	**52**	**1,100**	**95**	**110**	**52**	78 U	**83**	**88**	**61** J	**230**	200	NA
Benzo(k)fluoranthene	3,200	3,600	**840**	**660**	**630**	**33**	**76**	**1,200**	**110**	**150**	**100**	78 U	**200**	**210**	**120**	**840**	**500**	NA
Chrysene	1,400	2,800	**880**	**810**	**590**	**71**	**180**	**3,600**	**350**	**280**	**250**	**42** J	**280**	**260**	**200**	**950**	**530**	NA
Dibenz(a,h)anthracene	230	230	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Fluoranthene	1,700	2,500	**1,400**	**1,600**	**1,200**	**86**	**230**	**4,700**	**560**	**540**	**550**	**52** J	**810**	**650**	**470**	**2,100**	**800**	NA
Indeno(1,2,3-cd)pyrene	600	690	**370**	230 U	**150**	22	**54**	**960**	**88**	**120**	**56**	78 U	**110**	**98**	**60** J	**280**	200	NA
Pyrene	2,600	3,300	**1,400**	**980**	**680**	**73**	**180** J	**4,700**	**500**	**440**	**380**	**49** J	**490**	**390**	**340**	**1,600**	**990**	NA
Total HPAH	12,000	17,000	**7,530**	**5,870**	**4,840**	**402** J	**947** J	**19,070** J	**1,971**	**2,150**	**1,718**	**143** J	**2,623**	**2,356**	**1,671** J	**8,220**	**4,220**	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**8,900**	**5,300**	**5,500**	**840**	**810**	**9,100**	**620**	**1,400**	**1,200**	**390**	**630**	**580**	**2,500**	**3,100**	**1,900**	NA
Butylbenzylphthalate	63	900	**600**	**900**	**100**	**56**	**19** U	680 U	35 J	**66**	**300**	78 U	**530**	79 U	**73** J	**230**	140 U	NA
Diethylphthalate	200		290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Dimethylphthalate	71	160	290 U	230 U	98 U	20 U	25	680 U	39 U	39 U	39 U	78 U	79 U	79 U	**44** J	79 U	140 U	NA
Di-n-butylphthalate	1,400	1,400	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	**2,200**	140 U	NA
Di-n-octyl phthalate	6,200		**690**	**780**	**700**	**85** NJ	**47** NJ	680 U	**55** NJ	**140** NJ	**140** NJ	78 U	79 U	79 U	**110**	**700**	140 U	NA
PCBs (ug/kg dw)																		
Aroclor 1016			120 U	72 U	67 U	19 UJ	20 U	20 U	20 U	20 U	19 U	20 U	19 U	19 U	20 U	19 U	350 Y	NA
Aroclor 1221			120 U	72 U	67 U	39 U	39 U	40 U	39 U	39 U	39 U	20 U	19 U	19 U	20 U	19 U	69 U	NA
Aroclor 1232			120 U	72 U	67 U	19 U	20 U	20 U	20 U	20 U	19 U	20 U	19 U	19 U	20 U	19 U	1,000 Y	NA
Aroclor 1242			120 U	72 U	67 U	19 U	20 U	**92** J	20 U	20 U	19 U	20 U	19 U	19 U	20 U	19 U	1,000 Y	NA
Aroclor 1248			120 U	**370**	67 U	19 U	20 U	20 U	20 U	20 U	19 U	20 U	19 U	19 U	20 U	290 Y	480 Y	NA
Aroclor 1254			**220**	72 U	67 U	**20** J	20 U	**59**	20 U	**22**	**27**	20 U	19 U	19 U	20 U	**180**	1,000 Y	NA
Aroclor 1260			**160**	**110**	67 U	19 U	20 U	**71**	20 U	20 U	19 U	20 U	19 U	19 U	20 U	**73**	480 Y	NA
Total PCBs	130	1,000	**380**	**480**	67 U	**20** J	20 U	**222** J	20 U	**22**	**27**	20 U	19 U	19 U	20 U	**253**	1,000 Y	NA
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
1,2-Dichlorobenzene	35	50	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
1,3-Dichlorobenzene			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
1,4-Dichlorobenzene	110	110	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
1-Methylnaphthalene																		
2,2'-Oxybis(1-chloropropane)			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
2,4,5-Trichlorophenol			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
2,4,6-Trichlorophenol			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA

DT-6: Inline sediment sample results (dry weight).

Station ID			T3a	T6b	T8b	MH8	MH9	MH10	MH11	MH12	MH12D	MH14	MH15	MH15-D	MH17	MH18	MH19	MH21A
Lab Ref			Tt	Tt	Tt	FX91	FX91	FX91	FX91	FZ55	FZ55	GI79	GI79	GI79	GI79	GI79	GX22	HH16
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	02/28/02	02/28/02	02/28/02	10/13/03	10/13/03	10/13/03	10/13/03	10/27/03	10/27/03	02/18/04	02/18/04	02/18/04	02/20/04	02/20/04	07/30/04	10/29/04
Total solids (%)			43	69	75	79.8	84.2	32.7	63.6	80.7	79.3	76.5	80.9	81.2	78.6	60.1	41.1	56.2
2,4-Dichlorophenol			NA	NA	NA	59 U	58 U	2,000 U	120 U	120 U	120 U	230 U	240 U	240 U	240 U	240 U	410 U	NA
2,4-Dimethylphenol[a]	29	29	860 U	700 U	290 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
2,4-Dinitrophenol			NA	NA	NA	200 U	190 U	6,800 U	390 U	390 U	390 U	780 U	790 U	790 U	790 U	790 U	1,400 U	NA
2,4-Dinitrotoluene			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
2,6-Dinitrotoluene			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
2-Chloronaphthalene			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	**450**	NA
2-Chlorophenol			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
2-Methylnaphthalene	670	670	290 U	230 U	98 U	20 U	19 U	**2,800**	39 U	39 U	39 U	78 U	79 U	79 U	79 U	**40** J	140 U	NA
2-Methylphenol[a]	63	63	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
2-Nitroaniline			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
2-Nitrophenol			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
3,3'-Dichlorobenzidine			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
3-Nitroaniline			NA	NA	NA	120 U	120 U	4,100 U	240 U	230 U	230 U	470 U	480 U	470 U	470 U	470 U	820 U	NA
4,6-Dinitro-2-methylphenol			NA	NA	NA	200 U	190 U	6,800 U	390 U	390 U	390 U	780 U	790 U	790 U	790 U	790 U	1,400 U	NA
4-Bromophenyl-phenylether			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
4-Chloro-3-methylphenol			NA	NA	NA	39 U	39 U	1,400 U	79 U	78 U	78 U	160 U	160 U	160 U	160 U	160 U	270 U	NA
4-Chloroaniline			NA	NA	NA	59 U	58 U	2,000 U	120 U	120 U	120 U	230 U	240 U	240 U	240 U	240 U	410 U	NA
4-Chlorophenyl-phenylether			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
4-Methylphenol[a]	670	670	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	**7,500**	140 U	NA
4-Nitroaniline			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
4-Nitrophenol			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	790 U	680 U	NA
Benzoic acid[a]	650	650	2,900 U	2,300 U	980 U	200 U	190 U	6,800 U	390 U	390 U	390 U	780 U	790 U	790 U	790 U	790 U	1,400 U	NA
Benzyl alcohol[a]	57	73	1,400 U	1,200 U	490 U	20 U	19 U	680 U	39 U	39 U	**950**	78 U	79 U	79 U	79 U	79 U	140 U	NA
bis(2-Chloroethoxy) methane			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Bis-(2-chloroethyl) ether			NA	NA	NA	39 U	39 U	1,400 U	79 U	78 U	78 U	160 U	160 U	160 U	160 U	160 U	270 U	NA
Carbazole			NA	NA	NA	20 U	26	680 U	39 U	**49**	**43**	78 U	**83**	**45** J	79 U	**150**	140 U	NA
Dibenzofuran	540	540	290 U	230 U	98 U	20 U	19 U	770	39 U	39 U	39 U	78 U	79 U	79 U	79 U	**52** J	140 U	NA
Hexachlorobenzene	22	70	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Hexachlorobutadiene	11	120	290 U	470 U	200 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Hexachlorocyclopentadiene			NA	NA	NA	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
Hexachloroethane			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Isophorone			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Nitrobenzene			NA	NA	NA	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
n-Nitroso-di-n-propylamine			NA	NA	NA	39 U	39 U	1,400 U	79 U	78 U	78 U	160 U	160 U	160 U	160 U	160 U	270 U	NA
N-Nitrosodiphenylamine	28	40	290 U	230 U	98 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	79 U	140 U	NA
Pentachlorophenol[a]	360	690	1,400 U	1,200 U	490 U	98 U	97 U	3,400 U	200 U	190 U	190 U	390 U	400 U	390 U	390 U	390 U	680 U	NA
Phenol[a]	420	1,200	570 U	470 U	200 U	20 U	19 U	680 U	39 U	39 U	39 U	78 U	79 U	79 U	79 U	170 U	140 U	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2
Lab Ref			JF27	JV42	KS67	LL01	MR44	OT18	QU85	FT96	IL86	JE98	JV42	KS67	LM54	MR44	NQ66	OT18
Utility Type[c]			SD	SD	SD	SD	SD	SD	Inline	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	03/31/06	09/06/06	03/22/07	08/13/07	04/09/08	03/31/09	04/30/10	08/21/03	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09
Total solids (%)			87.5	84.2	81.7	81.1	77.6	67.8	40.1	66.9	71.5	83.5	82.0	82.6	80.7	75.5	82.0	87.5
TOC (%)			1.17	1.20	1.64	3.30	4	1.48	8.15	2.10	2.46	1.20	1.49	0.64	0.53	1.03	1	0.44
Metals (mg/kg DW)																		
Arsenic	57	93	5 U	6 UJ	6 U	6 U	6 U	7 UJ	**20**	30 U	20 U	10 U	20 U	6 U	6 U	10 U	6 U	10 UJ
Copper	390	390	**36.4**	**51.2** J	**45**	**43.6**	**52**	**49.3** J	**209**	**78**	**64.6**	**54.7**	**66.3**	**22.4**	**26.5**	**191**	**31**	**32.5** J
Lead	450	530	**105**	**28** J	**24**	**22**	**29**	**26** J	**292**	**100**	**30**	**117**	**45**	**41**	**20**	**63**	**11**	**9** J
Mercury	0.41	0.59	0.05 U	0.05 UJ	0.04 U	**0.05**	**0.05**	0.06 UJ	**2.72**	0.02 U	0.07 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	**0.05** J
Zinc	410	960	**150**	**169** J	**227**	**161**	**250**	**169** J	**661**	**159**	**151**	**480**	**364**	**93**	**90**	**168**	**126**	**73** J
Total petroleum hydrocarbons (mg/kg DW)																		
TPH-diesel	2,000[b]		**220**	**85**	**240**	**180**	**140**	**180**	**1,800**	**50**	**890** J	**75**	**55**	**77**	63 U	**67**	**74**	60 U
TPH-oil	2,000[b]		**810**	**400**	**1,500**	**1,000**	**710**	**560**	**4,100**	**110**	**1,400**	**440**	**410**	**520**	**420**	**490**	**380**	**240**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	120 U	**45**	**40**	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Acenaphthylene	1,300	1,300	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Anthracene	960	960	120 U	**160**	**200**	100 U	19 U	74 U	78 U	39 U	**75**	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Fluorene	540	540	120 U	**57**	**54**	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Naphthalene	2,100	2,100	120 U	33 U	20 U	100 U	**22**	**420**	**150**	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Phenanthrene	1,500	1,500	**77** J	**620**	**81**	**170**	**36**	**180**	78 U	**130**	**260**	**74**	**82**	**32**	**140**	**17** J	**76**	**16** J
Total LPAH	5,200	5,200	**77** J	**882**	**375**	**170**	**58**	**600**	**150**	**130**	**335**	**74**	**82**	**32**	**140**	**17** J	**76**	**16** J
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	120 U	**360**	**780**	100 U	**31**	**120**	**260**	**96**	**190**	**36** J	**63**	**25**	**95**	**13** J	**74**	**17** J
Benzo(a)pyrene	1,600	1,600	120 U	**360**	**850**	100 U	**34**	**120**	**340**	**94**	**130**	59 U	**64**	**22**	**98**	**17** J	**74**	**18** J
Benzo(b)fluoranthene	3,200	3,600	120 U	**350**	**920**	100 U	**39**	**170**	**460**	**120**	**150**	**34** J	**82**	**47**	**130**	**26**	**130**	**28** J
Benzo(g,h,i)perylene	670	720	120 U	**150**	**140**	100 U	**19** J	**53** J	**270** J	39 U	59 U	**31** J	**49**	20 U	60 U	**11** J	58 U	19 U
Benzo(k)fluoranthene	3,200	3,600	120 U	**310**	**1,000**	**160**	**39**	**180**	**460**	**100**	**200**	59 U	**55**	**32**	**81**	**23**	**96**	**26** J
Chrysene	1,400	2,800	**64** J	**430**	**1,000**	**150**	**58**	**210**	**1,100**	**130**	**220**	**60**	**96**	**40**	**130**	**31**	**120**	**27** J
Dibenz(a,h)anthracene	230	230	120 U	**79**	**26**	100 U	19 U	74 U	**72** J	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Fluoranthene	1,700	2,500	**110** J	**1,000**	**2,600**	**330**	**86**	**330**	**1,200**	**200**	**520**	**92**	**160**	**71**	**320**	**38**	**190**	**40** J
Indeno(1,2,3-cd)pyrene	600	690	120 U	**150**	**130**	100 U	**16** J	**42** J	**160**	**41**	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Pyrene	2,600	3,300	**140**	**710**	**1,200**	**240**	**120**	**360**	**1,500** J	**220**	**410**	**85**	**130**	**47**	**180**	**37**	**150**	**39**
Total HPAH	12,000	17,000	**314** J	**3,899**	**8,646**	**880**	**442** J	**1,585** J	**5,822** J	**1,001**	**1,820**	**338** J	**699**	**284**	**1,034**	**196** J	**834**	**195** J
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	330 U	**820** B	**920**	**1,600**	**930**	**1,600**	**14,000**	**2,800**	**820**	**380**	**750** B	**550**	**480**	**1,100**	**470**	**220**
Butylbenzylphthalate	63	900	120 U	33 U	**640**	100 U	**44**	**56** J	78 U	39 U	59 U	59 U	33 U	**42**	60 U	**14** J	58 U	19 U
Diethylphthalate	200		120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Dimethylphthalate	71	160	120 U	**170**	20 U	**1,800**	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Di-n-butylphthalate	1,400	1,400	120 U	33 U	**10**	100 U	**260**	**310**	78 U	39 U	59 U	59 U	**33**	20 U	60 U	**31**	58 U	19 U
Di-n-octyl phthalate	6,200		120 U	**46**	**64** J	**170**	**470**	**680**	78 U	39 U	59 U	**93**	**44**	**51**	60 U	**140**	**270**	**260**
PCBs (ug/kg dw)																		
Aroclor 1016			19 U	19 Y	20 U	20 U	19 U	20 U	230 U	19 U	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Aroclor 1221			19 U	19 U	20 U	20 U	19 U	20 U	230 U	38 U	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Aroclor 1232			19 U	19 U	20 U	20 U	19 U	20 U	230 U	19 U	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Aroclor 1242			19 U	19 U	20 U	**110**	19 U	20 U	230 U	19 U	19 U	19 U	**29**	19 U	20 U	20 U	18 U	19 U
Aroclor 1248			19 U	**19** J	20 U	20 U	19 U	20 U	**4,700**	19 U	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Aroclor 1254			19 U	**29**	**25**	**38**	19 U	**29**	**7,300**	**36**	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Aroclor 1260			19 U	19 U	20 Y	**22**	19 U	20 U	**1,300**	19 U	19 U	19 U	20 U	19 U	20 U	20 U	18 U	19 U
Total PCBs	130	1,000	19 U	**48** J	**25**	**170**	19 U	**29**	**13,300**	**36**	19 U	19 U	**29**	19 U	20 U	20 U	18 U	19 U
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
1,2-Dichlorobenzene	35	50	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
1,3-Dichlorobenzene			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
1,4-Dichlorobenzene	110	110	**140**	33 U	**13** J	100 U	**42**	**42** J	**120**	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
1-Methylnaphthalene									**56** J									
2,2'-Oxybis(1-chloropropane)			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2,4,5-Trichlorophenol			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
2,4,6-Trichlorophenol			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U

DT-6: Inline sediment sample results (dry weight).

Station ID			ST1	ST1	ST1	ST1	ST1	ST1	ST1	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2	ST2
Lab Ref			JF27	JV42	KS67	LL01	MR44	OT18	QU85	FT96	IL86	JE98	JV42	KS67	LM54	MR44	NQ66	OT18
Utility Type[c]			SD	SD	SD	SD	SD	SD	Inline	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**LAET**	**2LAET**	03/31/06	09/06/06	03/22/07	08/13/07	04/09/08	03/31/09	04/30/10	08/21/03	08/26/05	03/28/06	09/05/06	03/22/07	08/22/07	04/09/08	09/23/08	03/31/09
Total solids (%)			87.5	84.2	81.7	81.1	77.6	67.8	40.1	66.9	71.5	83.5	82.0	82.6	80.7	75.5	82.0	87.5
2,4-Dichlorophenol			600 U	170 U	100 U	510 U	97 U	370 U	390 U	120 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
2,4-Dimethylphenol[a]	29	29	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2,4-Dinitrophenol			1,200 U	330 U	200 U	1,000 U	190 U	740 U	780 UJ	390 U	590 U	590 U	330 U	200 U	600 U	200 U	580 U	190 U
2,4-Dinitrotoluene			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
2,6-Dinitrotoluene			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
2-Chloronaphthalene			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2-Chlorophenol			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2-Methylnaphthalene	670	670	120 U	33 U	20 U	100 U	19 U	74 U	**120**	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2-Methylphenol[a]	63	63	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
2-Nitroaniline			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
2-Nitrophenol			600 U	170 U	100 U	510 U	97 U	370 U	78 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
3,3'-Dichlorobenzidine			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	
3-Nitroaniline			600 U	170 U	100 U	510 U	97 U	370 U	390 U	230 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	
4,6-Dinitro-2-methylphenol			1,200 U	330 U	200 U	1,000 U	190 U	740 U	780 U	390 U	590 U	590 U	330 U	200 U	600 U	200 U	580 U	190 U
4-Bromophenyl-phenylether			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
4-Chloro-3-methylphenol			600 U	170 U	100 U	510 U	97 U	370 U	390 U	77 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
4-Chloroaniline			600 U	170 U	100 U	510 U	97 U	370 U	390 U	120 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	
4-Chlorophenyl-phenylether			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
4-Methylphenol[a]	670	670	120 U	33 U	20 U	100 U	**69**	**57** J	78 U	**790**	**440**	59 U	33 U	20 U	60 U	20 U	58 U	19 U
4-Nitroaniline			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
4-Nitrophenol			600 U	170 U	100 U	510 U	97 U	370 U	390 UJ	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
Benzoic acid[a]	650	650	1,200 U	330 U	200 U	1,000 U	190 U	740 U	780 UJ	390 U	590 U	590 U	330 U	200 U	600 UJ	200 U	580 U	190 U
Benzyl alcohol[a]	57	73	120 U	33 U	**20**	100 U	**15** J	74 U	78 U	**200**	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
bis(2-Chloroethoxy) methane			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Bis-(2-chloroethyl) ether			120 U	33 U	20 U	100 U	19 U	74 U	78 U	77 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Carbazole			120 U	**77**	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Dibenzofuran	540	540	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Hexachlorobenzene	22	70	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Hexachlorobutadiene	11	120	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Hexachlorocyclopentadiene			600 U	170 U	100 U	510 U	97 U	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
Hexachloroethane			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Isophorone			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Nitrobenzene			120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
n-Nitroso-di-n-propylamine			600 U	170 U	100 U	510 U	97 U	370 U	390 U	77 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
N-Nitrosodiphenylamine	28	40	120 U	33 U	20 U	100 U	19 U	74 U	78 U	39 U	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U
Pentachlorophenol[a]	360	690	600 U	170 U	100 U	510 U	**97** J	370 U	390 U	190 U	300 U	300 U	170 U	98 U	300 U	98 U	290 U	96 U
Phenol[a]	420	1,200	120 U	33 U	20 U	100 U	34 U	74 U	78 U	**160**	59 U	59 U	33 U	20 U	60 U	20 U	58 U	19 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment sample results (dry weight).

Station ID			ST2	ST7	ST7	ST7	ST7	ST7	RCB140	MH100B	MH101	MH110	MH111
Lab Ref			QU85	JV42	LL01	NQ66	OT18	QU85	MW66	NO90	NO90	PZ96	PZ96
Utility Type[c]			Inline	SD	SD	SD	SD	Inline	SD	SD	SD	Inline	Inline
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD
Date	**LAET**	**2LAET**	04/30/10	09/05/06	08/13/07	09/23/08	03/31/09	04/30/10	05/14/08	09/12/08	09/12/08	12/03/09	12/03/09
Total solids (%)			91.0	84.0	77.8	80.4	75.9	82.4	81.2	67.7	48.3	65.0	74.7
TOC (%)			0.43	0.82	3.22	4.89	2.25	1.37	1.37	6.89	3.09	3.6	1.8
Metals (mg/kg DW)													
Arsenic	57	93	10 U	20 U	6 U	**7**	6 UJ	**6**	6 U	**13.9**	**50**	**18** J	**960** J
Copper	390	390	**40.4**	**77.5**	**40**	**58.7**	**47.5** J	**39.9**	**129**	**500**	**220**	**227** J	**998** J
Lead	450	530	**16**	**32**	**28**	**61**	**51** J	**59**	**18**	**675**	**178**	**84** J	**878** J
Mercury	0.41	0.59	0.02 U	0.05 U	0.05 U	**0.06**	**0.08** J	0.02 U	0.04 U	**1.88**	**0.28**	**0.13** J	**0.40** J
Zinc	410	960	**105**	**271**	**163**	**271**	**152** J	**161**	**423**	**2,420**	**829**	**455** J	**2,630** J
Total petroleum hydrocarbons (mg/kg DW)													
TPH-diesel	2,000[b]		55 U	**94**	**250**	**470**	**190**	**110**	**150**	**1,100**	**470**	**400**	**620**
TPH-oil	2,000[b]		**220**	**620**	**1,200**	**2,100**	**1,000**	**470**	**920**	**5,100**	**1,100**	**930**	**1,700**
LPAH (ug/kg DW)													
Acenaphthene	500	500	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**130**	**700**
Acenaphthylene	1,300	1,300	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**34** J	96 U
Anthracene	960	960	19 U	40 U	110 U	170 U	58 J	**12** J	59 U	190 U	**130**	**7,300**	**1,300**
Fluorene	540	540	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**140**	**610**
Naphthalene	2,100	2,100	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**41** J	96 U
Phenanthrene	1,500	1,500	19 U	**97**	**250**	**240**	**440**	**100**	**73**	**320**	**310**	**6,000**	**1,500**
Total LPAH	5,200	5,200	19 U	**97**	**250**	**240**	**498** J	**112** J	**73**	**320**	**440**	**13,645**	**4,110**
HPAH (ug/kg DW)													
Benzo(a)anthracene	1,300	1,600	19 U	**53**	**140**	**160** J	**110**	**81**	**44** J	**290**	**400**	**13,000**	**1,000**
Benzo(a)pyrene	1,600	1,600	19 U	**65**	**150**	**180**	**110**	**100**	**43** J	**580**	**550**	**8,400**	**1,000**
Benzo(b)fluoranthene	3,200	3,600	**7** J	**76**	**230**	**200**	**150**	**110**	**58** J	**680**	**1,100**	**8,700**	**1,100**
Benzo(g,h,i)perylene	670	720	19 U	**47**	110 U	170 U	**46** J	**40** J	59 U	**410**	**240**	**1,500**	**240**
Benzo(k)fluoranthene	3,200	3,600	**7** J	**51**	**130**	**270**	**180**	**110**	**46** J	**660**	**890**	**8,700**	**1,100**
Chrysene	1,400	2,800	**15** J	**99**	**240**	**290**	**180**	**180**	**81**	**490**	**850**	**15,000**	**1,600**
Dibenz(a,h)anthracene	230	230	19 U	40 U	110 U	170 U	81 U	**18** J	59 U	**95** J	110 U	**1,100**	**75** J
Fluoranthene	1,700	2,500	**12** J	**190**	**500**	**430**	**480**	**240**	**130**	**770**	**1,600**	**27,000**	**4,100**
Indeno(1,2,3-cd)pyrene	600	690	19 U	40 U	110 U	170 U	81 U	**31**	59 U	**290**	**210**	**1,800**	**250**
Pyrene	2,600	3,300	**13** J	**140**	**320**	**340**	**450**	**180** J	**130**	**660**	**1,800**	**25,000**	**3,000**
Total HPAH	12,000	17,000	**53** J	**721**	**1,710**	**1,870** J	**1,706** J	**1,090** J	**532** J	**4,925** J	**7,640**	**110,200**	**13,465**
Phthalates (ug/kg dw)													
Bis(2-ethylhexyl)phthalate	1,300	1,900	**180**	**1,200** B	**2,500**	**3,000**	**1,600**	**950**	**990**	**3,000**	**12,000**	**7,500**	**4,700**
Butylbenzylphthalate	63	900	19 U	40 U	**1,200**	170 U	81 U	**95**	**260**	**1,500**	**310**	**250**	**150**
Diethylphthalate	200		19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	**50** J
Dimethylphthalate	71	160	19 U	**41**	110 U	170 U	81 U	20 U	39 J	**200**	110 U	66 U	**49** J
Di-n-butylphthalate	1,400	1,400	19 U	**410**	110 U	170 U	81 U	**54**	59 U	**400**	110 U	**41** J	**140**
Di-n-octyl phthalate	6,200		19 U	**61**	**190**	**180**	**120**	**160**	**210**	**190**	**140**	**190**	**530**
PCBs (ug/kg dw)													
Aroclor 1016			19 U	20 U	19 U	20 U	96 U	19 U	20 U	200 U	59 U	20 U	26 U
Aroclor 1221			19 U	20 U	19 U	20 U	96 U	19 U	20 U	200 U	59 U	20 U	26 U
Aroclor 1232			19 U	20 U	19 U	20 U	96 U	19 U	20 U	200 U	59 U	20 U	26 U
Aroclor 1242			19 U	**48**	19 U	20 U	96 U	19 U	20 U	200 U	59 U	20 U	26 U
Aroclor 1248			19 U	20 U	19 U	**38**	96 U	19 U	**31**	390 Y	**78**	**39**	**52**
Aroclor 1254			19 U	**19** J	**25**	**46**	**120**	19 U	20 U	**1,200**	**130**	**61** J	**87**
Aroclor 1260			19 U	20 U	29 Y	**31**	96 U	19 U	20 U	**350**	**120** J	**43**	**51**
Total PCBs	130	1,000	19 U	**67** J	**25**	**115**	**120**	19 U	**31**	**1,550**	**328**	**143** J	**190**
Other organic compounds (ug/kg dw)													
1,2,4-Trichlorobenzene	31	51	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
1,2-Dichlorobenzene	35	50	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**56** J	**54** J
1,3-Dichlorobenzene			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
1,4-Dichlorobenzene	110	110	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	**82** J	**260**	**110**
1-Methylnaphthalene			19 U					20 U				**35** J	**98**
2,2'-Oxybis(1-chloropropane)			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
2,4,5-Trichlorophenol			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
2,4,6-Trichlorophenol			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U

DT-6: Inline sediment sample results (dry weight).

Station ID			ST2	ST7	ST7	ST7	ST7	ST7	RCB140	MH100B	MH101	MH110	MH111
Lab Ref			QU85	JV42	LL01	NQ66	OT18	QU85	MW66	NO90	NO90	PZ96	PZ96
Utility Type[c]			Inline	SD	SD	SD	SD	Inline	SD	SD	SD	Inline	Inline
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD
Date	**LAET**	**2LAET**	04/30/10	09/05/06	08/13/07	09/23/08	03/31/09	04/30/10	05/14/08	09/12/08	09/12/08	12/03/09	12/03/09
Total solids (%)			91.0	84.0	77.8	80.4	75.9	82.4	81.2	67.7	48.3	65.0	74.7
2,4-Dichlorophenol			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
2,4-Dimethylphenol[a]	29	29	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
2,4-Dinitrophenol			190 UJ	400 U	1,100 U	1,700 U	810 U	200 UJ	590 U	1,900 U	1,100 U	660 UJ	960 U
2,4-Dinitrotoluene			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
2,6-Dinitrotoluene			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
2-Chloronaphthalene			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
2-Chlorophenol			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
2-Methylnaphthalene	670	670	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**46** J	**60** J
2-Methylphenol[a]	63	63	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
2-Nitroaniline			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
2-Nitrophenol			19 U	200 U	540 U	870 U	400 U	20 U	300 U	940 U	540 U	330 U	480 U
3,3'-Dichlorobenzidine			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
3-Nitroaniline			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
4,6-Dinitro-2-methylphenol			190 U	400 U	1,100 U	1,700 U	810 U	200 U	590 U	1,900 U	1,100 U	660 U	960 U
4-Bromophenyl-phenylether			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
4-Chloro-3-methylphenol			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
4-Chloroaniline			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
4-Chlorophenyl-phenylether			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
4-Methylphenol[a]	670	670	19 U	**490**	110 U	170 U	81 U	20 U	**57** J	190 U	110 U	66 U	96 U
4-Nitroaniline			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
4-Nitrophenol			97 UJ	200 U	540 U	870 U	400 U	98 UJ	300 U	940 U	540 U	330 U	480 U
Benzoic acid[a]	650	650	190 UJ	400 U	**1,200**	1,700 U	810 U	200 UJ	590 U	1,900 U	1,100 U	660 U	960 U
Benzyl alcohol[a]	57	73	19 U	40 U	**120**	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
bis(2-Chloroethoxy) methane			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Bis-(2-chloroethyl) ether			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Carbazole			19 U	40 U	110 U	170 U	81 U	**18** J	59 U	190 U	**86** J	66 U	96 U
Dibenzofuran	540	540	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	**62** J	**250**
Hexachlorobenzene	22	70	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Hexachlorobutadiene	11	120	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Hexachlorocyclopentadiene			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 UJ	480 U
Hexachloroethane			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Isophorone			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Nitrobenzene			19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
n-Nitroso-di-n-propylamine			97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
N-Nitrosodiphenylamine	28	40	19 U	40 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U
Pentachlorophenol[a]	360	690	97 U	200 U	540 U	870 U	400 U	98 U	300 U	940 U	540 U	330 U	480 U
Phenol[a]	420	1,200	19 U	45 U	110 U	170 U	81 U	20 U	59 U	190 U	110 U	66 U	96 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

Concentration exceeds the SQS/LA

Concentration exceeds the CSL/2L

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

DT-6: Inline sediment grab sample results (dry weight).

Station ID			ID-ST2	DK-ST1	DK-ST1	1st-ST1	1st-ST1	1st-ST2	1st-ST2	1st-ST3	1st-ST3	1st-ST5	1st-ST5	1st-ST5	HP-ST4	HP-ST6	HP-ST6
Lab Ref			NN61	NO62	OP80	NN61	OP80	NN61	OP80	NO62	OQ56	NP28	RG85	RG85	NO62	NR14	OV62
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			SW Idaho St SD	SW Idaho St SD	SW Idaho St SD	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	Highland Park Wy SW SD	Highland Park Wy SW SD	Highland Park Wy SW SD
Date	SQS/ LAET	CSL/ 2LAET	09/05/08	09/10/08	03/06/09	09/05/08	03/06/09	09/05/08	03/06/09	09/10/08	03/12/09	09/16/08	08/02/10	08/02/10	09/10/08	09/25/08	04/15/09
Total solids (%)			75	91.3	77.9	59.0	70	83	73.7	84.4	76.7	21.6	24.6	35	86.6	20.3	42.6
Total organic carbon (%)			0	3.63	3.6	8.37	5.98	0.89	2.14	2.02	3.82	11.2	12.8	9.88	0.708	6.64 J	6.9
Metals (mg/kg)																	
Arsenic	57	93	6 U	**10**	6 U	**7**	7 U	6 U	**7**	5 U	6 U	**30**	**20**	**20**	**7**	**30**	**30**
Copper	390	390	**17.4**	**26.3**	**18**	**110**	**89.5**	21	**23.6**	**29.6**	**35.6**	**246**	**171**	**153**	**36.3**	**144**	**160**
Lead	450	530	**10**	**33**	**34**	**63**	**46**	**180**	**32**	**10**	**11**	**301**	**254**	**262**	**19**	**150**	**162**
Mercury	0.41	0.59	0.06 U	**0.08**	**0.05**	0.07 U	**0.07**	0.05 U	0.05 U	0.04 U	0.06 U	**0.6**	**0.42**	**0.49**	0.04 U	**0.26**	**0.31**
Zinc	410	960	**74**	**170**	**122**	**502**	**396**	**134**	**143**	**162**	**192**	**1,480**	**924**	**852**	**184**	**876**	**882**
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		65 U	56 U	65 U	**180**	**650**	61 U	**170**	61 U	61 U	**1,100**	**1,000**	**980**	**89**	230 U	**790**
TPH-oil	2,000[b]		130 U	**270**	**280**	**1,000**	**3,300**	**320**	**910**	**410**	**470**	**3,800**	**3,600**	**3,300**	**540**	470 U	**3,800**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	**54** J	**580**	**550** J	**350** J	39 U	59 U	140 U
Acenaphthylene	1,300	1,300	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Anthracene	960	960	20 U	19 U	20 U	31 J	**91** J	20 U	59 U	20 U	**160**	430 U	700 U	570 U	39 U	59 U	140 U
Fluorene	540	540	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	**75**	**490**	**530** J	**380** J	39 U	59 U	140 U
Naphthalene	2,100	2,100	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Phenanthrene	1,500	1,500	**67**	19 U	20 U	**140**	**400**	**13** J	**35** J	**41**	**960**	**980**	**1,400**	**1,000**	34 J	**190**	**160**
Total LPAH	5,200	5,200	**67**	19 U	20 U	**171**	**491**	**13** J	**35** J	**41**	**1,249** J	**2,050**	**2,480** J	**1,730** J	**34** J	**190**	**160**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**69**	19 U	20 U	130	**250**	20 U	59 U	**42**	580	430 U	**540** J	**510** J	**34** J	**130**	**140**
Benzo(a)pyrene	1,600	1,600	**110**	19 U	20 U	140	**230**	20 U	59 U	**54**	**600**	**560**	**550** J	**490** J	**37** J	**150**	**190**
Benzo(b)fluoranthene	3,200	3,600	**180**	19 U	**10** J	180	**370**	12 J	**31** J	**66**	**610**	**750**	**650** J	**560** J	**66**	**240**	**270**
Benzo(g,h,i)perylene	670	720	**120**	19 U	20 U	90	**120** J	20 U	59 U	**20**	**250**	430 U	**380** J	**300** J	39 U	**140**	140 U
Benzo(k)fluoranthene	3,200	3,600	**310**	21	20 U	220	**250**	14 J	59 U	**74**	**580**	**1,200**	**650** J	**560** J	**45**	**180**	**240**
Chrysene	1,400	2,800	**190**	19 U	**11** J	240	**720**	19 J	**54** J	**64**	**720**	**1,200**	**980**	**850**	**55**	**290**	**310**
Dibenz(a,h)anthracene	230	230	**20**	19 U	20 U	58 U	130 U	20 U	59 U	20 U	**78**	430 U	700 U	570 U	39 U	59 U	140 U
Fluoranthene	1,700	2,500	**200**	19 U	20 U	310	**600**	26	**53** J	**130**	**1,500**	**2,200**	**1,700**	**1,600**	**110**	**380**	**400**
Indeno(1,2,3-cd)pyrene	600	690	**120**	19 U	20 U	53 J	**80** J	20 U	59 U	**16** J	**260**	430 U	700 U	570 U	39 U	**98**	140 U
Pyrene	2,600	3,300	**170**	19 U	20 U	520	**730**	27	**72**	**110**	**1,300**	**2,300**	**1,900**	**1,600**	**81**	**400**	**390**
Total HPAH	12,000	17,000	**1,489**	**21**	**21** J	**1,883** J	**3,350** J	**98** J	**210** J	**576** J	**6,478**	**8,210**	**7,350**	**6,470**	**428** J	**2,008**	**1,940**
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**130**	**63**	**59**	**2,400**	**8,100**	**190**	**3,200**	**160**	**180**	**44,000**	**26,000**	**24,000**	**290**	**4,500**	**5,100**
Butylbenzylphthalate	63	900	**13** J	19 U	20 U	**210**	**300**	**64**	**77**	20 U	57 U	430 U	700 U	570 U	39 U	570	**600**
Diethylphthalate	200		**18** J	19 U	**19** J	58 U	130 U	20 U	59 U	**28**	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Dimethylphthalate	71	160	20 U	19 U	20 U	**97**	**120** J	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	**72**	140 U
Di-n-butylphthalate	1,400	1,400	20 U	19 U	**35**	**93**	130 U	20 U	59 U	20 U	57 U	**570**	700 U	570 U	39 U	**69**	140 U
Di-n-octyl phthalate	6,200		20 U	19 U	20 U	**83**	**1,200**	20 U	**49** J	20 U	57 U	**1,900**	700 U	570 U	**310**	**220**	**190**
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	60 U	20 U	20 U	19 U	20 U	20 U
Aroclor 1221			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	60 U	20 U	20 U	19 U	20 U	20 U
Aroclor 1232			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	60 U	20 U	20 U	19 U	20 U	20 U
Aroclor 1242			20 U	19 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	60 U	20 U	20 U	19 U	20 U	20 U
Aroclor 1248			**20**	19 U	20 U	19 U	20 U	20 U	20 U	20 U	20 U	**160**	**68**	**87**	19 U	20 U	**26**
Aroclor 1254			20 U	19 U	20 U	**30**	**20**	20 U	20 U	20 U	20 U	**220**	**81** J	**120** J	19 U	20 U	**34**
Aroclor 1260			20 U	19 U	20 U	**31**	20 U	20 U	20 U	20 U	20 U	**120**	**44** J	**67** J	19 U	20 U	**23**
Total PCBs	130	1,000	**20**	19 U	20 U	**61**	**20**	20 U	20 U	20 U	20 U	**500**	**193** J	**274** J	19 U	20 U	**83**
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
1,2-Dichlorobenzene	35	50	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
1,3-Dichlorobenzene			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
1,4-Dichlorobenzene	110	110	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
1-Methylnaphthalene													**380** J	**570** U			
2,2'-Oxybis(1-chloropropane)			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
2,4,5-Trichlorophenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
2,4,6-Trichlorophenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
2,4-Dichlorophenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			ID-ST2	DK-ST1	DK-ST1	1st-ST1	1st-ST1	1st-ST2	1st-ST2	1st-ST3	1st-ST3	1st-ST5	1st-ST5	1st-ST5	HP-ST4	HP-ST6	HP-ST6
Lab Ref			NN61	NO62	OP80	NN61	OP80	NN61	OP80	NO62	OQ56	NP28	RG85	RG85	NO62	NR14	OV62
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			SW Idaho St SD	SW Idaho St SD	SW Idaho St SD	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	1st Ave S SD (west)	Highland Park Wy SW SD	Highland Park Wy SW SD	Highland Park Wy SW SD
Date	SQS/ LAET	CSL/ 2LAET	09/05/08	09/10/08	03/06/09	09/05/08	03/06/09	09/05/08	03/06/09	09/10/08	03/12/09	09/16/08	08/02/10	08/02/10	09/10/08	09/25/08	04/15/09
2,4-Dimethylphenol[a]	29	29	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
2,4-Dinitrophenol			200 U	190 U	200 U	580 U	1,300 U	200 U	590 U	200 U	570 U	4,300 U	7,000 U	5,700 U	390 U	590 U	1,400 U
2,4-Dinitrotoluene			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
2,6-Dinitrotoluene			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
2-Chloronaphthalene			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
2-Chlorophenol			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
2-Methylnaphthalene	670	670	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	**530** J	**330** J	39 U	59 U	140 U
2-Methylphenol[a]	63	63	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
2-Nitroaniline			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
2-Nitrophenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	700 U	570 U	200 U	300 U	680 U
3,3'-Dichlorobenzidine			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
3-Nitroaniline			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
4,6-Dinitro-2-methylphenol			200 U	190 U	200 U	580 U	1,300 U	200 U	590 U	200 U	570 U	4,300 U	7,000 U	5,700 U	390 U	590 U	1,400 U
4-Bromophenyl-phenylether			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
4-Chloro-3-methylphenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
4-Chloroaniline			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
4-Chlorophenyl-phenylether			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
4-Methylphenol[a]	670	670	20 U	19 U	20 U	58 U	130 U	20 U	**70**	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
4-Nitroaniline			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
4-Nitrophenol			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
Benzoic acid[a]	650	650	200 U	190 U	200 U	580 U	1,300 U	200 U	590 U	200 U	570 U	4,300 U	7,000 U	5,700 U	390 U	590 U	1,400 U
Benzyl alcohol[a]	57	73	20 U	19 U	**18** J	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	**430**	140 U
bis(2-Chloroethoxy) methane			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Bis-(2-chloroethyl) ether			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Carbazole			**16** J	19 U	20 U	58 U	**65** J	20 U	59 U	20 U	**120**	430 U	700 U	570 U	39 U	59 U	140 U
Dibenzofuran	540	540	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Hexachlorobenzene	22	70	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Hexachlorobutadiene	11	120	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Hexachlorocyclopentadiene			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
Hexachloroethane			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Isophorone			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Nitrobenzene			20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
N-Nitroso-di-n-propylamine			98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
N-Nitrosodiphenylamine	28	40	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	59 U	140 U
Pentachlorophenol[a]	360	690	98 U	96 U	98 U	290 U	640 U	98 U	290 U	99 U	290 U	2,200 U	3,500 U	2,800 U	200 U	300 U	680 U
Phenol[a]	420	1,200	20 U	19 U	20 U	58 U	130 U	20 U	59 U	20 U	57 U	430 U	700 U	570 U	39 U	**72**	140 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment grab sample results (dry weight).

Station ID			KN-ST1	KN-ST1	KN-ST1	7th-ST1	7th-ST1	7th-ST1	7th-ST2	7th-ST3	7th-ST3	7th-ST3	96-ST1	96-ST1	96-ST2	96-ST2	96-ST3
Lab Ref			NO62	OR05	QV61	NO62	OR05	QU72	NP28	NM74	QU72	OQ56	OD79	OW77	OD79	OW77	OC78
Type[c]			Inline	Inline	Inline	Inline	Inline	Trap	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	#N/A	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	S 96th St SD	S 96th St SD	S 96th St SD	S 96th St SD	S 96th St SD
Date	SQS/ LAET	CSL/ 2LAET	09/10/08	03/17/09	05/06/10	09/10/08	03/17/09	04/29/10	09/16/08	08/28/08	04/29/10	03/12/09	12/11/08	04/24/09	12/11/08	04/24/09	12/03/08
Total solids (%)			45.6	51.5	50.8	45.8	43.1	43.4	95.1	46.7	43.9	24.6	68.5	73.9	78.7	70.1	77.5
Total organic carbon (%)			4.48	5.03	4.03	6.46	5.59	7.46	0.417	5.29	6.66	13.9	1.3	2.84	0.836	3.39	0.277
Metals (mg/kg)																	
Arsenic	57	93	**30**	**34**	**70**	**20**	**20**	**20**	6 U	**20**	**20**	**18**	**7**	**7**	6 U	7 U	6 U
Copper	390	390	**147**	**156**	**193**	**251**	**223**	**208**	**19.2**	**159**	**154**	**176**	**28.9**	**25.3**	**18.8**	**23.2**	**8.1**
Lead	450	530	**223**	**184**	**470**	**188**	**189**	**157**	**3**	**173**	**160**	**190**	**38**	**36**	**31**	**63**	**5**
Mercury	0.41	0.59	**0.40**	**0.19**	**0.42**	**0.26**	**0.20**	**0.19**	0.05 U	**0.26**	**0.23**	**0.28**	0.06 U	**0.03**	0.05 U	**0.04**	0.05 U
Zinc	410	960	**707**	**771**	**879**	**735**	**674**	**678**	**84**	**654**	**775**	**738**	**228**	**249**	**396**	**410**	**34**
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		**130**	**870**	**660**	**240**	**930**	**330**	59 U	110 U	**260**	**1,000**	**77**	**100**	33 U	62 U	64 U
TPH-oil	2,000[b]		**660**	**4,600**	**2,300**	**1,300**	**4,800**	**1,300**	120 U	**220**	**1,300**	**3,700**	**470**	**570**	**190**	**330**	130 U
LPAH (ug/kg DW)																	
Acenaphthene	500	500	75 U	120 U	**140**	140 U	200 U	170 U	19 U	20 U	**21** J	150 U	**22**	**86**	19 U	60 U	20 U
Acenaphthylene	1,300	1,300	75 U	120 U	**88**	140 U	200 U	170 U	19 U	20 U	**20** J	150 U	20 U	59 U	19 U	60 U	20 U
Anthracene	960	960	75 U	**160**	**1,400**	140 U	200 U	**130** J	19 U	20 U	**57**	150 U	**54**	**280**	**32**	60 U	20 U
Fluorene	540	540	75 U	120 U	**270**	140 U	200 U	170 U	19 U	20 U	**21** J	150 U	**25**	**120**	19 U	60 U	20 U
Naphthalene	2,100	2,100	75 U	120 U	**42** J	140 U	200 U	170 U	19 U	20 U	**24** J	150 U	20 U	59 U	19 U	60 U	20 U
Phenanthrene	1,500	1,500	**85**	**310**	**3,300**	**240**	**420**	**590**	19 U	110	**290**	**280**	**260**	**1,400**	150	**200**	20 U
Total LPAH	5,200	5,200	**85**	**470**	**5,240** J	**240**	**420**	**720**	19 U	**110**	**433**	**280**	**361**	**1,886**	**182**	200 U	20 U
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**91**	**400**	**990** J	**240**	**360**	**680**	19 U	**89**	**220**	**270**	**160**	**710**	**120**	**140**	20 U
Benzo(a)pyrene	1,600	1,600	**150**	**620**	**1,100**	**420**	**460**	**780**	19 U	**140**	**410**	**440**	**160**	**750**	**110**	**160**	20 U
Benzo(b)fluoranthene	3,200	3,600	**310**	**760**	**1,700**	**410**	**420**	**890**	19 U	**220**	**410**	**420**	**180**	**970**	**120**	**190**	20 U
Benzo(g,h,i)perylene	670	720	**93**	**640** J	**560**	**270**	**330**	**400**	19 U	**59**	**270**	**380**	**54**	**270**	**35**	**69**	20 U
Benzo(k)fluoranthene	3,200	3,600	**300**	**960** J	**1,700** J	**770**	**640**	**890**	19 U	**190**	**410**	**610**	**140**	**730**	**100**	**220**	20 U
Chrysene	1,400	2,800	**210**	**710**	**2,400** J	**520**	**560**	**1,200**	19 U	**140**	**450**	**450**	**200**	**820**	**130**	**190**	20 U
Dibenz(a,h)anthracene	230	230	75 U	**160**	**190**	140 U	200 U	**170** J	19 U	20 U	**86**	150 U	20 U	**93**	19 U	60 U	20 U
Fluoranthene	1,700	2,500	**420**	**1,100**	**6,900**	**800**	**850**	**1,900**	19 U	**250**	**900**	**660**	**370**	**2,000**	**260**	**350**	20 U
Indeno(1,2,3-cd)pyrene	600	690	**83**	**560** J	**590**	**190**	**280**	**360**	19 U	**47**	**210**	**270**	**53**	**260**	**35**	**60**	20 U
Pyrene	2,600	3,300	**290**	**940**	**2,900** J	**1,000**	**920**	**1,200**	19 U	210	**540**	**640**	420	**1,800**	**260**	**350**	20 U
Total HPAH	12,000	17,000	**1,947**	**6,850** J	**19,030** J	**4,620**	**4,820**	**8,470**	19 U	**1,345**	**3,906**	**4,140**	**1,737**	**8,403**	**1,170**	**1,729**	20 U
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**830**	**2,100** B	**2,900** J	**3,400**	**1,500** B	**7,300**	19 U	**510**	**2,100**	**1,500**	**920**	**620**	**170**	**640**	20 U
Butylbenzylphthalate	63	900	75 U	**140**	**150** J	**270**	**220**	**400** J	19 U	**100**	**320**	**200**	**28**	**140**	**37**	60 U	20 U
Diethylphthalate	200		75 U	120 U	77 UJ	140 U	200 U	170 UJ	19 U	20 U	34 UJ	150 U	20 U	59 U	19 U	60 U	20 U
Dimethylphthalate	71	160	75 U	120 U	77 U	140 U	200 U	170 U	19 U	**32**	**56**	**91** J	**24**	59 U	19 U	60 U	20 U
Di-n-butylphthalate	1,400	1,400	**87**	**230**	**230**	140 U	200 U	**130** J	19 U	44	**110**	**120** J	20 U	59 U	19 U	60 U	20 U
Di-n-octyl phthalate	6,200		75 U	120 U	77 U	140 U	200 U	**210**	19 U	20 U	**46**	150 U	20 U	59 U	19 U	60 U	20 U
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	20 U	20 U	270 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1221			20 U	20 U	20 U	270 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1232			20 U	20 U	20 U	270 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1242			20 U	20 U	20 U	270 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1248			**68**	**26**	100 Y	270 U	20 U	**39**	20 U	20 U	20 U	20 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1254			**130**	**69**	**200**	540 Y	**68**	**77**	20 U	**59**	**44**	**31**	**39**	19 U	19 U	19 U	20 U
Aroclor 1260			**100**	**72**	**200**	**2,400**	**120**	**120**	20 U	**55**	**38**	**29**	**50**	19 U	19 U	19 U	20 U
Total PCBs	130	1,000	**298**	**167**	**500**	**2,400**	**188**	**236**	20 U	**114**	**82**	**60**	**89**	19 U	19 U	19 U	20 U
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
1,2-Dichlorobenzene	35	50	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
1,3-Dichlorobenzene			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
1,4-Dichlorobenzene	110	110	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
1-Methylnaphthalene					77 U			170 U			34 U						
2,2'-Oxybis(1-chloropropane)			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
2,4,5-Trichlorophenol			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
2,4,6-Trichlorophenol			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
2,4-Dichlorophenol			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			KN-ST1	KN-ST1	KN-ST1	7th-ST1	7th-ST1	7th-ST1	7th-ST2	7th-ST3	7th-ST3	7th-ST3	96-ST1	96-ST1	96-ST2	96-ST2	96-ST3
Lab Ref			NO62	OR05	QV61	NO62	OR05	QU72	NP28	NM74	QU72	OQ56	OD79	OW77	OD79	OW77	OC78
Type[c]			Inline	Inline	Inline	Inline	Inline	Trap	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	#N/A	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	S 96th St SD	S 96th St SD	S 96th St SD	S 96th St SD	S 96th St SD
Date	SQS/ LAET	CSL/ 2LAET	09/10/08	03/17/09	05/06/10	09/10/08	03/17/09	04/29/10	09/16/08	08/28/08	04/29/10	03/12/09	12/11/08	04/24/09	12/11/08	04/24/09	12/03/08
2,4-Dimethylphenol[a]	29	29	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
2,4-Dinitrophenol			750 U	1,200 U	770 UJ	1,400 U	2,000 U	1,700 UJ	190 U	200 U	340 UJ	1,500 U	200 U	590 U	190 U	600 U	200 U
2,4-Dinitrotoluene			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
2,6-Dinitrotoluene			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
2-Chloronaphthalene			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
2-Chlorophenol			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
2-Methylnaphthalene	670	670	75 U	120 U	**45** J	140 U	200 U	170 U	19 U	20 U	**23** J	150 U	**38**	59 U	19 U	60 U	20 U
2-Methylphenol[a]	63	63	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
2-Nitroaniline			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
2-Nitrophenol			370 U	610 U	77 U	700 U	990 U	170 U	96 U	98 U	34 U	760 U	98 U	300 U	96 U	300 U	98 U
3,3'-Dichlorobenzidine			370 U	610 R	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
3-Nitroaniline			370 U	610 R	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
4,6-Dinitro-2-methylphenol			750 U	1,200 U	770 U	1,400 U	2,000 U	1,700 U	190 U	200 U	340 U	1,500 U	200 U	590 U	190 U	600 U	200 U
4-Bromophenyl-phenylether			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
4-Chloro-3-methylphenol			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
4-Chloroaniline			370 U	610 R	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
4-Chlorophenyl-phenylether			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
4-Methylphenol[a]	670	670	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
4-Nitroaniline			370 U	610 R	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
4-Nitrophenol			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
Benzoic acid[a]	650	650	750 U	1,200 U	770 U	1,400 U	2,000 U	1,700 U	190 U	200 U	**120** J	1,500 U	200 U	590 U	190 U	600 U	200 U
Benzyl alcohol[a]	57	73	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	**41**	150 U	20 U	59 U	19 U	**94**	20 U
bis(2-Chloroethoxy) methane			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Bis-(2-chloroethyl) ether			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Carbazole			75 U	120 U	**420**	140 U	200 U	**100** J	19 U	20 U	**53**	150 U	**34**	**190**	**21**	60 U	20 U
Dibenzofuran	540	540	75 U	120 U	**99**	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Hexachlorobenzene	22	70	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Hexachlorobutadiene	11	120	75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Hexachlorocyclopentadiene			370 U	610 UJ	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
Hexachloroethane			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Isophorone			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Nitrobenzene			75 U	120 U	77 U	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
N-Nitroso-di-n-propylamine			370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
N-Nitrosodiphenylamine	28	40	75 U	120 U	89 NJ	140 U	200 U	170 U	19 U	20 U	34 U	150 U	20 U	59 U	19 U	60 U	20 U
Pentachlorophenol[a]	360	690	370 U	610 U	380 U	700 U	990 U	850 U	96 U	98 U	170 U	760 U	98 U	300 U	96 U	300 U	98 U
Phenol[a]	420	1,200	75 U	120 U	**52** J	140 U	200 U	170 U	19 U	20 U	**69** B	150 U	20 U	59 U	19 U	60 U	20 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

DT-6: Inline sediment grab sample results (dry weight).

Station ID			96-ST3	HC-ST1	HC-ST1	KCIA2-ST1	KCIA2-ST1	KCIA2-ST1	KCIA1-ST1	KCIAJ-ST1	T2A	MHT6BX	MH17	MH18	MH21A	MH201	MH202
Lab Ref			OY94	OB36	OV62	NR14	OS39	PT62	OS39	OS39	OB72	OI27	OB72	OB72	OQ59	OA35	OA35
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			S 96th St SD	Hamm Creek	Hamm Creek	KCIA SD#2/PS45 EOF	KCIA SD#2/PS45 EOF	#N/A	KCIA SD#1	KCIA-Jorgensen SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	16th Ave S SD	16th Ave S SD
Date	SQS/ LAET	CSL/ 2LAET	05/13/09	11/21/08	04/15/09	09/25/08	03/26/09	10/21/09	03/26/09	03/26/09	11/25/08	01/15/09	11/25/08	11/25/08	03/12/09	11/17/08	11/17/08
Total solids (%)			79.7	87.7	86.8	38.8	19.1	79.5	84.8	84.2	53.2	49.9	78	54.8	43.7	72	65.7
Total organic carbon (%)			0.91	0.283	0.354	12.3	4.81	0.6455	0.999	1.88	5.27	9.45	2.4	3.43	5.68	5.82	9.79
Metals (mg/kg)																	
Arsenic	57	93	6 UJ	5 U	**6**	40	120 UJ	6 UJ	**10** J	**21** J	10	**10**	6 U	34	**10**	**10**	**9.2**
Copper	390	390	**9.4** J	**12.6**	**18.7**	**16**	**18** J	**13.4** J	**23** J	**116** J	**158**	**148**	**109**	**387**	**176**	**158**	**158**
Lead	450	530	**6** J	**8**	**7**	50 U	50 UJ	**10** J	**26** J	**134** J	**83**	**179**	**51**	**461**	**110**	**281**	**260**
Mercury	0.41	0.59	0.02 UJ	0.06 U	0.02 U	0.3 U	0.2 UJ	0.03 UJ	0.05 UJ	**0.07** J	**0.15**	**0.24**	**0.06**	**0.48**	**0.30**	**7.7**	**0.12**
Zinc	410	960	38 UJ	**72**	**62**	**330**	**370** J	**43** J	**1,170** J	**357** J	**337**	**858**	**183**	**534**	**448**	**1,020**	**1,640**
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		61 U	57 U	58 U	**320**	250 U	62 U	**74**	**260**	**390**	**1,200**	**97**	**800**	**880**	**220**	**330**
TPH-oil	2,000[b]		120 U	110 U	120 U	**1,500**	500 U	120 U	**370**	**1,500**	**1,900**	**6,800**	**560**	**2,300**	**4,500**	**1,400**	**1,600**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	19 U	20 U	19 U	20 U	20 U	19 U	55 U	**94**	34 U	79 U	**13** J	**54**	140 U	100 U	120 U
Acenaphthylene	1,300	1,300	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	**41** J	19 U	32 U	140 U	100 U	120 U
Anthracene	960	960	19 U	20 U	19 U	20 U	20 U	**11** J	55 U	**320**	34 U	**110**	**18** J	**290**	140 U	100 U	120 U
Fluorene	540	540	19 U	20 U	19 U	20 U	20 U	19 U	55 U	**140**	34 U	79 U	19 U	**53**	140 U	100 U	120 U
Naphthalene	2,100	2,100	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	**55** J	19 U	**27** J	140 U	100 U	120 U
Phenanthrene	1,500	1,500	19 U	20 U	19 U	**61**	**42**	**51**	**200**	**2,000**	**77**	**330**	**100**	**520**	**120** J	**350**	**470**
Total LPAH	5,200	5,200	19 U	20 U	19 U	**61**	**42**	**62**	**200**	**2,554**	**77**	**536** J	**131** J	**944** J	**120** J	**350**	**470**
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	19 U	20 U	19 U	**35**	**27**	**61**	**180**	**1,400**	**52**	**310**	**73**	**840**	**130** J	**320**	**300**
Benzo(a)pyrene	1,600	1,600	19 U	20 U	19 U	**60**	**43**	**68**	**200**	**1,400**	**86**	**640**	**77**	**860**	**160**	**390**	**360**
Benzo(b)fluoranthene	3,200	3,600	19 U	20 U	19 U	**140**	**82**	**73**	**290**	**1,500**	**94**	**1,000**	**87**	**950**	**190**	**330**	**430**
Benzo(g,h,i)perylene	670	720	19 U	20 U	19 U	**98**	**64**	**29**	**120** J	**640**	**77**	**450**	**37**	**270**	**210**	**290**	**240**
Benzo(k)fluoranthene	3,200	3,600	19 U	20 U	19 U	**85**	**84**	**73**	**290**	**1,500**	**130**	**550**	**82**	**820**	**240**	**480**	**410**
Chrysene	1,400	2,800	19 U	20 U	19 U	**94**	**72**	**78**	**280**	**1,700**	**160**	**570**	**110**	**880**	**310**	**450**	**510**
Dibenz(a,h)anthracene	230	230	19 U	20 U	19 U	**32**	**14** J	**13** J	160 U	**300**	34 U	**62** J	**19** U	**100**	140 U	100 U	120 U
Fluoranthene	1,700	2,500	19 U	20 U	19 U	**140**	**110**	**170** B	**560**	**3,500**	**190**	**800**	**200**	**1,800**	**390**	**810**	**800**
Indeno(1,2,3-cd)pyrene	600	690	19 U	20 U	19 U	**92**	**56**	**34**	**120** J	**700**	**45**	**320**	**29**	**280**	**100** J	**210**	**170**
Pyrene	2,600	3,300	19 U	20 U	19 U	**120**	**84**	**120**	**490**	**2,800**	**200**	**1,100**	**170**	**1,500**	**510**	**650**	**700**
Total HPAH	12,000	17,000	19 U	20 U	19 U	**896**	**636** J	**719** JB	**2,530** J	**15,440**	**1,034**	**5,802** J	**865**	**8,300**	**2,240** J	**3,930**	**3,920**
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	38 U	51 U	**72**	**88**	**32**	**58**	**360**	**590**	**6,500**	**5,300**	**670**	**3,200**	**5,100**	**13,000**	**44,000**
Butylbenzylphthalate	63	900	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	**95**	**310**	**100**	32 U	**240**	**480**	**370**
Diethylphthalate	200		23 U	20 U	19 U	20 U	**16** J	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
Dimethylphthalate	71	160	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	26 J	**50** J	**47**	**45**	140 U	**120**	**130**
Di-n-butylphthalate	1,400	1,400	**25**	20 U	19 U	20 U	20 U	19 U	55 U	**66**	34 U	**98**	19 U	**31** J	**1,400**	100 U	**240**
Di-n-octyl phthalate	6,200		19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	**91**	**320**	**28**	32 U	**190**	**250**	**3,900**
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	20 U	19 U	20 U	20 U	19 U	20 U	2,500 U	20 U	18 U	20 U	60 U	20 U	20 U	19 U
Aroclor 1221			20 U	20 U	19 U	20 U	20 U	19 U	20 U	2,500 U	20 U	18 U	20 U	60 U	20 U	20 U	19 U
Aroclor 1232			20 U	20 U	19 U	20 U	20 U	19 U	20 U	2,500 U	20 U	18 U	20 U	60 U	20 U	20 U	19 U
Aroclor 1242			20 U	20 U	19 U	20 U	20 U	19 U	20 U	2,500 U	20 U	18 U	20 U	60 U	20 U	20 U	19 U
Aroclor 1248			20 U	20 U	19 U	**31**	20 U	19 U	20 U	2,500 U	20 U	**320**	20 U	**150**	44 Y	20 U	**75**
Aroclor 1254			20 U	20 U	19 U	**40**	20 U	19 U	98 Y	**8,000**	**34**	**360**	20 U	**200**	**53**	**71**	**100**
Aroclor 1260			20 U	20 U	19 U	**21**	20 U	19 U	20 U	2,500 U	20 U	**220**	20 U	**110**	49 Y	**170**	**120**
Total PCBs	130	1,000	20 U	20 U	19 U	**92**	20 U	19 U	98 Y	**8,000**	**34**	**900**	20 U	**460**	**53**	**241**	**295**
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
1,2-Dichlorobenzene	35	50	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
1,3-Dichlorobenzene			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
1,4-Dichlorobenzene	110	110	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
1-Methylnaphthalene								19 U									
2,2'-Oxybis(1-chloropropane)			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
2,4,5-Trichlorophenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
2,4,6-Trichlorophenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
2,4-Dichlorophenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			96-ST3	HC-ST1	HC-ST1	KCIA2-ST1	KCIA2-ST1	KCIA2-ST1	KCIA1-ST1	KCIAJ-ST1	T2A	MHT6BX	MH17	MH18	MH21A	MH201	MH202
Lab Ref			OY94	OB36	OV62	NR14	OS39	PT62	OS39	OS39	OB72	OI27	OB72	OB72	OQ59	OA35	OA35
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			S 96th St SD	Hamm Creek	Hamm Creek	KCIA SD#2/PS45 EOF	KCIA SD#2/PS45 EOF	#N/A	KCIA SD#1	KCIA-Jorgensen SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	16th Ave S SD	16th Ave S SD
Date	SQS/ LAET	CSL/ 2LAET	05/13/09	11/21/08	04/15/09	09/25/08	03/26/09	10/21/09	03/26/09	03/26/09	11/25/08	01/15/09	11/25/08	11/25/08	03/12/09	11/17/08	11/17/08
2,4-Dimethylphenol[a]	29	29	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
2,4-Dinitrophenol			190 U	200 U	190 U	200 U	200 U	190 U	550 U	580 U	340 U	790 U	190 U	320 U	1,400 U	1,000 U	1,200 U
2,4-Dinitrotoluene			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
2,6-Dinitrotoluene			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
2-Chloronaphthalene			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
2-Chlorophenol			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
2-Methylnaphthalene	670	670	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	**58** J	19 U	40	140 U	100 U	120 U
2-Methylphenol[a]	63	63	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	**720**	**5,700**
2-Nitroaniline			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
2-Nitrophenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
3,3'-Dichlorobenzidine			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
3-Nitroaniline			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
4,6-Dinitro-2-methylphenol			190 U	200 U	190 U	200 U	200 U	190 U	550 U	580 U	340 U	790 U	190 U	320 U	1,400 U	1,000 U	1,200 U
4-Bromophenyl-phenylether			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
4-Chloro-3-methylphenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
4-Chloroaniline			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
4-Chlorophenyl-phenylether			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
4-Methylphenol[a]	670	670	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	**79**	140 U	100 U	120 U
4-Nitroaniline			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
4-Nitrophenol			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
Benzoic acid[a]	650	650	190 U	200 U	190 U	200 U	200 U	190 U	550 U	580 U	340 U	790 U	190 U	320 U	1,400 U	**1,700**	**13,000**
Benzyl alcohol[a]	57	73	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	**2,400**	**31,000**
bis(2-Chloroethoxy) methane			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
Bis-(2-chloroethyl) ether			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
Carbazole			19 U	20 U	19 U	20 U	**11** J	13 J	**36** J	**270**	34 U	**77** J	**14** J	**93**	140 U	100 U	120 U
Dibenzofuran	540	540	19 U	20 U	19 U	20 U	20 U	19 U	55 U	**65**	34 U	79 U	19 U	**34**	140 U	100 U	120 U
Hexachlorobenzene	22	70	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	**47** J	19 U	32 U	140 U	100 U	120 U
Hexachlorobutadiene	11	120	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
Hexachlorocyclopentadiene			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
Hexachloroethane			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
Isophorone			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	**270**
Nitrobenzene			19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	32 U	140 U	100 U	120 U
N-Nitroso-di-n-propylamine			96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
N-Nitrosodiphenylamine	28	40	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	79 U	19 U	59 Y	140 U	100 U	120 U
Pentachlorophenol[a]	360	690	96 U	98 U	96 U	99 U	100 U	96 U	270 U	290 U	170 U	400 U	96 U	160 U	720 U	510 U	600 U
Phenol[a]	420	1,200	19 U	20 U	19 U	20 U	20 U	19 U	55 U	58 U	34 U	**70** J	19 U	**22** J	140 U	**410**	**3,500**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH203	MH204	MH205	MH206	MH207	MH208	MH209	MH210	MH211	MH212	MH213	MH214	MH215	MH216	MH217
Lab Ref			OA35	OI27	OI27	OI27	OL20	OL20	OL20	OL20	OQ56	OS39	OW77	OW77	OY94	OZ57	OZ57
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			16th Ave S SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Nevada St SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S River St SD	16th Ave S SD	16th Ave S SD	16th Ave S SD	WSDOT SD-S Ryan St	1st Ave S SD (west)	1st Ave S SD (west)
Date	SQS/ LAET	CSL/ 2LAET	11/17/08	01/15/09	01/15/09	01/15/09	02/04/09	02/04/09	02/04/09	02/04/09	03/12/09	03/26/09	04/24/09	04/24/09	05/13/09	05/19/09	05/19/09
Total solids (%)			65.3	61.9	73.2	67	NA	NA	NA	87.2	60	79.9	61.1	57	64.9	83.5	82.2
Total organic carbon (%)			7.81	6.58	3.56	2.72	NA	NA	NA	0.703	7.04	2.37	7.73	8.51	3.57	1.4	1.84
Metals (mg/kg)																	
Arsenic	57	93	8 U	**8**	**125**	**9**	**12**	**8**	**15**	5 U	**96**	6 UJ	**9**	**9**	**10** J	**12** J	**13** J
Copper	390	390	**111**	**200**	**209**	**98.6**	**254**	**110**	**185**	**28.1**	**470**	**76** J	**145**	**146**	**87.6** J	**39.1** J	**55.6** J
Lead	450	530	**116**	**361**	**121**	**301**	**197**	**193**	**333**	**12**	**408**	**64** J	**169**	**195**	**357** J	**20** J	**31** J
Mercury	0.41	0.59	**0.11**	**1.19**	**0.15**	**0.35**	**0.40**	**0.76**	**0.13**	**0.09**	**0.30**	**0.05** J	**0.15**	**0.16**	**0.07** J	0.03 UJ	**0.02** J
Zinc	410	960	**562**	**586**	**710**	**489**	**259**	**196**	**302**	**97**	**1,010**	**219** J	**573**	**611**	**315** J	**102** J	**164** J
Total petroleum hydrocarbons (mg/kg)																	
TPH-diesel	2,000[b]		**780**	**410**	**220**	**120**	NA	NA	NA	**68**	**5,100**	**340**	**780**	**320**	**3,200**	**150**	**160**
TPH-oil	2,000[b]		**3,900**	**2,000**	**920**	**630**	NA	NA	NA	**380**	**9,300**	**2,200**	**4,000**	**1,700**	**7,800**	**950**	**950**
LPAH (ug/kg DW)																	
Acenaphthene	500	500	170 U	**39** J	**66**	**100**	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Acenaphthylene	1,300	1,300	170 U	**27** J	39 U	**20** J	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Anthracene	960	960	170 U	**290**	**180**	**180**	NA	NA	NA	20 U	**180**	100 U	68 U	65 U	**44** J	58 U	140 U
Fluorene	540	540	170 U	**54**	**70**	**120**	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Naphthalene	2,100	2,100	170 U	**25** J	39 U	**66**	NA	NA	NA	20 U	160 U	100 U	68 U	**110**	61 U	58 U	140 U
Phenanthrene	1,500	1,500	**640**	**540**	**440**	**1,300**	NA	NA	NA	**80**	**580**	**190**	**240**	**310**	**140**	**39** J	140 U
Total LPAH	5,200	5,200	**640**	**975** J	**756**	**1,786** J	NA	NA	NA	**80**	**760**	**190**	**240**	**420**	**184** J	**39** J	140 U
HPAH (ug/kg DW)																	
Benzo(a)anthracene	1,300	1,600	**500**	**410**	**260**	**500**	NA	NA	NA	**41**	**810**	**100** J	**190**	**140**	**140**	**32** J	140 U
Benzo(a)pyrene	1,600	1,600	**560**	**680**	**330**	**650**	NA	NA	NA	**46**	**1,100**	**100**	**350**	**370**	**120** J	58 U	140 U
Benzo(b)fluoranthene	3,200	3,600	**650**	**920**	**440**	**700**	NA	NA	NA	**55**	**970**	**120**	**470**	**380**	**210**	**28** J	140 U
Benzo(g,h,i)perylene	670	720	**350**	**440**	**180**	**270**	NA	NA	NA	**22**	**580**	**110**	**330**	**300**	**170**	58 U	140 U
Benzo(k)fluoranthene	3,200	3,600	**760**	**570**	**310**	**590**	NA	NA	NA	**48**	**1,300**	**170**	**510**	**480**	**210**	**28** J	140 U
Chrysene	1,400	2,800	**770**	**570**	**390**	**600**	NA	NA	NA	**57**	**1,300**	**220**	**490**	**530**	**350** J	**61**	140 U
Dibenz(a,h)anthracene	230	230	170 U	**88** J	**25** J	**60** J	NA	NA	NA	20 U	**87** J	100 U	68 U	**73** J	61 U	58 U	140 U
Fluoranthene	1,700	2,500	**1,500**	**1,100**	**780**	**1,800**	NA	NA	NA	**150**	**2,000**	**310**	**540**	**580**	**570**	**74**	140 U
Indeno(1,2,3-cd)pyrene	600	690	**260**	**400**	**170**	**280**	NA	NA	NA	**23**	**520**	**58** J	**240** J	**200** J	**99**	58 U	140 U
Pyrene	2,600	3,300	**1,300**	**950**	**790**	**1,300**	NA	NA	NA	**110**	**2,300**	**350**	**910**	**850**	**380** J	**72**	140 U
Total HPAH	12,000	17,000	**6,650**	**6,128** J	**3,675** J	**6,750** J	NA	NA	NA	**552**	**10,967** J	**1,538** J	**4,030** J	**3,903** J	**2,249** J	**295** J	140 U
Phthalates (ug/kg dw)																	
Bis(2-ethylhexyl)phthalate	1,300	1,900	**8,300**	**2,200**	**2,300**	**1,300**	NA	NA	NA	**300**	**5,800**	**3,800**	**1,800**	**1,800**	**5,600** B	**460**	**580**
Butylbenzylphthalate	63	900	**2,600**	**400**	**110**	**84**	NA	NA	NA	**120**	160 U	**790**	**240**	**150**	**380**	**71**	**270**
Diethylphthalate	200		170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Dimethylphthalate	71	160	170 U	**79**	39 U	39 U	NA	NA	NA	**680**	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Di-n-butylphthalate	1,400	1,400	**1,000**	**160**	**36** J	**60**	NA	NA	NA	20 U	160 U	100 U	**72**	65 U	61 U	58 U	140 U
Di-n-octyl phthalate	6,200		**660**	**130**	**200**	39 U	NA	NA	NA	20 U	160 U	**390**	68 U	65 U	61 U	**30** J	140 U
PCBs (ug/kg dw)																	
Aroclor 1016			20 U	400 U	18 U	18 U	NA	NA	NA	19 U	20 U	20 U	98 U	59 U	20 U	20 U	20 U
Aroclor 1221			20 U	400 U	18 U	18 U	NA	NA	NA	19 U	20 U	20 U	98 U	59 U	20 U	20 U	20 U
Aroclor 1232			20 U	400 U	18 U	18 U	NA	NA	NA	19 U	20 U	20 U	98 U	59 U	20 U	20 U	20 U
Aroclor 1242			20 U	400 U	18 U	18 U	NA	NA	NA	19 U	20 U	20 U	98 U	59 U	20 U	20 U	20 U
Aroclor 1248			**41**	400 U	**30**	**25**	NA	NA	NA	19 U	20 U	**27**	98 U	59 U	**73**	20 U	20 U
Aroclor 1254			**82**	400 U	**61**	**97**	NA	NA	NA	**46**	**57**	**64**	98 U	59 U	**94**	20 U	20 U
Aroclor 1260			**59**	**620**	**57**	**79**	NA	NA	NA	19 U	**51**	**45**	**300**	**300**	**65**	20 U	20 U
Total PCBs	130	1,000	**182**	**620**	**148**	**201**	NA	NA	NA	**46**	**108**	**136**	**300**	**300**	**232**	20 U	20 U
Other organic compounds (ug/kg dw)																	
1,2,4-Trichlorobenzene	31	51	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
1,2-Dichlorobenzene	35	50	170 U	40 U	33 J	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
1,3-Dichlorobenzene			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
1,4-Dichlorobenzene	110	110	170 U	40 U	29 J	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
1-Methylnaphthalene																	
2,2'-Oxybis(1-chloropropane)			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
2,4,5-Trichlorophenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
2,4,6-Trichlorophenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
2,4-Dichlorophenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH203	MH204	MH205	MH206	MH207	MH208	MH209	MH210	MH211	MH212	MH213	MH214	MH215	MH216	MH217
Lab Ref			OA35	OI27	OI27	OI27	OL20	OL20	OL20	OL20	OQ56	OS39	OW77	OW77	OY94	OZ57	OZ57
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			16th Ave S SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Nevada St SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S River St SD	16th Ave S SD	16th Ave S SD	16th Ave S SD	WSDOT SD-S Ryan St	1st Ave S SD (west)	1st Ave S SD (west)
Date	SQS/ LAET	CSL/ 2LAET	11/17/08	01/15/09	01/15/09	01/15/09	02/04/09	02/04/09	02/04/09	02/04/09	03/12/09	03/26/09	04/24/09	04/24/09	05/13/09	05/19/09	05/19/09
2,4-Dimethylphenol[a]	29	29	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
2,4-Dinitrophenol			1,700 U	400 U	390 U	390 U	NA	NA	NA	200 U	1,600 U	1,000 U	680 U	650 U	610 U	580 U	1,400 U
2,4-Dinitrotoluene			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
2,6-Dinitrotoluene			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
2-Chloronaphthalene			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
2-Chlorophenol			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
2-Methylnaphthalene	670	670	170 U	**28** J	**20** J	**55**	NA	NA	NA	20 U	160 U	100 U	68 U	**76**	61 U	58 U	140 U
2-Methylphenol[a]	63	63	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
2-Nitroaniline			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
2-Nitrophenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
3,3'-Dichlorobenzidine			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
3-Nitroaniline			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
4,6-Dinitro-2-methylphenol			1,700 U	400 U	390 U	390 U	NA	NA	NA	200 U	1,600 U	1,000 U	680 U	650 U	610 U	580 U	1,400 U
4-Bromophenyl-phenylether			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
4-Chloro-3-methylphenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
4-Chloroaniline			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
4-Chlorophenyl-phenylether			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
4-Methylphenol[a]	670	670	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
4-Nitroaniline			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
4-Nitrophenol			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
Benzoic acid[a]	650	650	1,700 U	400 U	390 U	390 U	NA	NA	NA	200 U	1,600 U	1,000 U	680 U	650 U	610 U	580 U	1,400 U
Benzyl alcohol[a]	57	73	**300**	40 U	**110**	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
bis(2-Chloroethoxy) methane			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Bis-(2-chloroethyl) ether			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Carbazole			170 U	**160**	**85**	**140**	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Dibenzofuran	540	540	170 U	**34** J	**36** J	**60**	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Hexachlorobenzene	22	70	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Hexachlorobutadiene	11	120	170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Hexachlorocyclopentadiene			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
Hexachloroethane			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Isophorone			170 U	**20** J	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Nitrobenzene			170 U	40 U	39 U	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
N-Nitroso-di-n-propylamine			840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
N-Nitrosodiphenylamine	28	40	170 U	40 U	39 U	**28** J	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U
Pentachlorophenol[a]	360	690	840 U	200 U	200 U	200 U	NA	NA	NA	97 U	810 U	520 U	340 U	330 U	300 U	290 U	710 U
Phenol[a]	420	1,200	**360**	**41**	**28** J	39 U	NA	NA	NA	20 U	160 U	100 U	68 U	65 U	61 U	58 U	140 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH218	MH219	MH220	MH221	MH222	MH223	MH224	MH225	MH226	MH227	MH228	MH229	MH230	MH231
Lab Ref			OZ57	OZ57	OZ76	OZ76	OZ99	OZ99	OZ99	OZ99	PA21	PA21	PA21	PA21	PA42	PA42
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			1st Ave S SD (west)	1st Ave S SD (west)	S River St SD	S River St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	05/19/09	05/19/09	05/20/09	05/20/09	05/21/09	05/21/09	05/21/09	05/21/09	05/26/09	05/26/09	05/26/09	05/26/09	05/27/09	05/27/09
Total solids (%)			54.4	58.1	58.2	68.1	84	84.2	46.5	43.2	69.9	81.3	50.6	55.6	71.4	65.6
Total organic carbon (%)			1.81	1.72	7.3	4.42	0.424	0.897	6.75	5.5	5.29	0.726	5.65	3.82	3.2	5.26
Metals (mg/kg)																
Arsenic	57	93	**24** J	**23** J	**51** J	**19** J	**46** J	**1,420** J	**30** J	**40** J	**58** J	**1,270** J	**20** J	**20** J	**13** J	**50** J
Copper	390	390	**62.2** J	**63.1** J	**251** J	**133** J	**85.7** J	**831** J	**227** J	**335** J	**273** J	**848** J	**135** J	**137** J	**59.4** J	**387** J
Lead	450	530	**130** J	**111** J	**245** J	**225** J	**90** J	**977** J	**222** J	**473** J	**757** J	**957** J	**121** J	**124** J	**30** J	**374** J
Mercury	0.41	0.59	**0.15** J	**0.10** J	**0.20** J	**0.16** J	**0.06** J	**0.13** J	**0.46** J	**1.15** J	**3.41** J	**0.24** J	**0.22** J	**0.19** J	0.03 UJ	**0.10** J
Zinc	410	960	**601** J	**636** J	**790** J	**552** J	**247** J	**4,000** J	**959** J	**709** J	**905** J	**3,600** J	**477** J	**426** J	**147** J	**650** J
Total petroleum hydrocarbons (mg/kg)																
TPH-diesel	2,000[b]		**1,500**	**1,600**	**1,100**	**940**	**98**	**370**	**570**	**21,000**	**1,100**	**360**	**680**	**350**	**380**	**660**
TPH-oil	2,000[b]		**3,600**	**3,500**	**2,800**	**2,500**	**200**	**760**	**1,400**	**30,000**	**4,900**	**910**	**2,600**	**1,300**	**2,100**	**3,300**
LPAH (ug/kg DW)																
Acenaphthene	500	500	**250**	**330**	120 U	120 U	**63**	**87**	58 U	170 U	190 U	**120**	380 U	340 U	130 U	160 U
Acenaphthylene	1,300	1,300	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Anthracene	960	960	**430**	**350**	**94** J	120 U	**1,400**	**290**	**33** J	170 U	**170** J	**570**	380 U	340 U	130 U	**100** J
Fluorene	540	540	**310**	**340**	120 U	120 U	**120**	**75**	58 U	170 U	190 U	**110**	380 U	340 U	130 U	160 U
Naphthalene	2,100	2,100	220 U	260 U	120 U	120 U	**25**	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Phenanthrene	1,500	1,500	**1,900**	**1,800**	**370**	**180**	**300**	**320**	**180**	170 U	**1,200**	**620**	**210** J	340 U	130 U	**430**
Total LPAH	5,200	5,200	**2,890**	**2,820**	**464** J	**180**	**1,908**	**772**	**213** J	**170**	**1,370** J	**1,420**	**210** J	**340**	**130**	**530** J
HPAH (ug/kg DW)																
Benzo(a)anthracene	1,300	1,600	**1,200**	**1,000**	**440**	**210**	**120**	**180**	**130**	**160** J	**960**	**460**	**250** J	**220** J	130 U	**460**
Benzo(a)pyrene	1,600	1,600	**1,200**	**970**	**570**	**340**	**73**	**140**	**130**	**220**	**1,200**	**370**	**380**	**320** J	**76** J	**550**
Benzo(b)fluoranthene	3,200	3,600	**1,300**	**1,300**	**510**	**360**	**70**	**140**	**180**	**320**	**1,000**	**340**	**420**	**360**	**70** J	**600**
Benzo(g,h,i)perylene	670	720	**250**	**220** J	**430**	**240**	**19** J	**34** J	**65**	**160** J	**860**	**150**	**340** J	**280** J	**70** J	**340**
Benzo(k)fluoranthene	3,200	3,600	**1,300**	**1,100**	**510**	**360**	**72**	**180**	**180**	**190**	**1,100**	**370**	**420**	**360**	**70** J	**600**
Chrysene	1,400	2,800	**1,400**	**1,300**	**640**	**460**	**160**	**300**	**200**	**540**	**1,500**	**630**	**530**	**430**	**130**	**970**
Dibenz(a,h)anthracene	230	230	220 U	260 U	**61** J	120 U	20 U	58 U	58 U	170 U	**130** J	68 U	380 U	340 U	130 U	160 U
Fluoranthene	1,700	2,500	**3,300**	**3,100**	**1,000**	**460**	**590**	**880**	**350**	**430**	**2,200**	**1,800**	**650**	**560**	**100** J	**1,400**
Indeno(1,2,3-cd)pyrene	600	690	**300**	**250** J	**320**	**160**	**19** J	**36** J	**50** J	**100** J	**620**	**140**	**240** J	**190** J	130 U	**220**
Pyrene	2,600	3,300	**2,200**	**2,000**	**920**	**530**	**360**	**630**	**290**	**1,700**	**1,700**	**1,200**	**600**	**520**	**100** J	**1,100**
Total HPAH	12,000	17,000	**12,450**	**11,240** J	**5,401** J	**3,120**	**1,483** J	**2,520** J	**1,575** J	**3,820** J	**11,270** J	**5,460**	**3,830** J	**3,240** J	**616** J	**6,240**
Phthalates (ug/kg dw)																
Bis(2-ethylhexyl)phthalate	1,300	1,900	**12,000**	**16,000**	**1,600**	**2,200**	**160**	**820**	**1,100**	**5,000**	**1,300**	**1,100**	**4,900**	**4,000**	**630**	**6,200**
Butylbenzylphthalate	63	900	220 U	**320**	**1,300**	**140**	20 U	58 U	**220**	170 U	**340**	68 U	380 U	**440**	130 U	**150** J
Diethylphthalate	200		220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Dimethylphthalate	71	160	220 U	260 U	120 U	**76** J	20 U	58 U	**35** J	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Di-n-butylphthalate	1,400	1,400	220 U	260 U	**78** J	**130**	20 U	58 U	**49** J	170 U	**130** J	68 U	380 U	340 U	130 U	160 U
Di-n-octyl phthalate	6,200		**410**	**480**	120 U	120 U	**42**	**580**	**41** J	130 J	190 U	**550**	**310** J	340 U	**80** J	**280**
PCBs (ug/kg dw)																
Aroclor 1016			160 U	170 U	18 U	17 U	20 U	20 U	20 U	20 U	97 U	19 U	98 U	98 U	100 U	98 U
Aroclor 1221			160 U	170 U	18 U	17 U	20 U	20 U	20 U	20 U	97 U	19 U	98 U	98 U	100 U	98 U
Aroclor 1232			160 U	170 U	18 U	17 U	20 U	20 U	20 U	20 U	97 U	19 U	98 U	98 U	100 U	98 U
Aroclor 1242			160 U	170 U	18 U	17 U	20 U	20 U	20 U	20 U	97 U	19 U	98 U	98 U	100 U	98 U
Aroclor 1248			**190**	**220**	**20**	**23**	20 U	20 U	20 U	99 Y	97 U	**20**	98 U	98 U	100 U	98 U
Aroclor 1254			**530**	**610**	**160** J	**78**	20 U	**40**	**34**	**370**	97 U	**34**	**140**	**150**	100 U	**110**
Aroclor 1260			160 U	170 U	**190**	**100**	**28**	**39**	**39** J	**410**	**350**	**47** J	**310**	**290**	**110**	**190**
Total PCBs	130	1,000	**720**	**830**	**370** J	**201**	**28**	**79**	**73** J	**780**	**350**	**101** J	**450**	**440**	**110**	**300**
Other organic compounds (ug/kg dw)																
1,2,4-Trichlorobenzene	31	51	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
1,2-Dichlorobenzene	35	50	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
1,3-Dichlorobenzene			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
1,4-Dichlorobenzene	110	110	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
1-Methylnaphthalene																
2,2'-Oxybis(1-chloropropane)			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2,4,5-Trichlorophenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
2,4,6-Trichlorophenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
2,4-Dichlorophenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH218	MH219	MH220	MH221	MH222	MH223	MH224	MH225	MH226	MH227	MH228	MH229	MH230	MH231
Lab Ref			OZ57	OZ57	OZ76	OZ76	OZ99	OZ99	OZ99	OZ99	PA21	PA21	PA21	PA21	PA42	PA42
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			1st Ave S SD (west)	1st Ave S SD (west)	S River St SD	S River St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	7th Ave S SD	7th Ave S SD	7th Ave S SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	05/19/09	05/19/09	05/20/09	05/20/09	05/21/09	05/21/09	05/21/09	05/21/09	05/26/09	05/26/09	05/26/09	05/26/09	05/27/09	05/27/09
2,4-Dimethylphenol[a]	29	29	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2,4-Dinitrophenol			2,200 U	2,600 U	1,200 U	1,200 U	200 U	580 U	580 U	1,700 U	1,900 U	680 U	3,800 U	3,400 U	1,300 U	1,600 U
2,4-Dinitrotoluene			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
2,6-Dinitrotoluene			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
2-Chloronaphthalene			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2-Chlorophenol			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2-Methylnaphthalene	670	670	220 U	260 U	120 U	120 U	**41**	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2-Methylphenol[a]	63	63	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
2-Nitroaniline			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
2-Nitrophenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
3,3'-Dichlorobenzidine			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
3-Nitroaniline			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
4,6-Dinitro-2-methylphenol			2,200 U	2,600 U	1,200 U	1,200 U	200 U	580 U	580 U	1,700 U	1,900 U	680 U	3,800 U	3,400 U	1,300 U	1,600 U
4-Bromophenyl-phenylether			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
4-Chloro-3-methylphenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
4-Chloroaniline			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
4-Chlorophenyl-phenylether			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
4-Methylphenol[a]	670	670	**450**	**510**	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	**380**
4-Nitroaniline			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
4-Nitrophenol			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
Benzoic acid[a]	650	650	2,200 U	2,600 U	1,200 U	1,200 U	200 U	580 U	580 U	1,700 U	1,900 U	680 U	3,800 U	3,400 U	1,300 U	1,600 U
Benzyl alcohol[a]	57	73	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
bis(2-Chloroethoxy) methane			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Bis-(2-chloroethyl) ether			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Carbazole			170 J	**210** J	120 U	120 U	**350**	**93**	58 U	170 U	**110** J	**150**	380 U	340 U	130 U	**81** J
Dibenzofuran	540	540	220 U	260 U	120 U	120 U	**53**	58 U	58 U	170 U	190 U	**49** J	380 U	340 U	130 U	160 U
Hexachlorobenzene	22	70	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Hexachlorobutadiene	11	120	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Hexachlorocyclopentadiene			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
Hexachloroethane			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Isophorone			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
Nitrobenzene			220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U
N-Nitroso-di-n-propylamine			1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
N-Nitrosodiphenylamine	28	40	220 U	260 U	120 U	120 U	20 U	**36** J	58 U	660 Y	190 U	68 U	380 U	340 U	130 U	160 U
Pentachlorophenol[a]	360	690	1,100 U	1,300 U	580 U	580 U	99 U	290 U	290 U	830 U	970 U	340 U	1,900 U	1,700 U	650 U	790 U
Phenol[a]	420	1,200	220 U	260 U	120 U	120 U	20 U	58 U	58 U	170 U	190 U	68 U	380 U	340 U	130 U	160 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH232	MH233	MH234	MH235	MH236	MH237	MH238	MH239	MH240	CB208
Lab Ref			PA42	PA42	PA42	PA42	PA57	PB04	PB04	PB20	PB20	PB20
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S River St SD	Diagonal Ave S CSO/SD	SW Idaho St SD	SW Idaho St SD	S 96th St SD	S Garden St SD	KCIA SD#2/PS45 EOF
Date	SQS/ LAET	CSL/ 2LAET	05/27/09	05/27/09	05/27/09	05/27/09	05/28/09	06/02/09	06/02/09	06/03/09	06/03/09	06/03/09
Total solids (%)			84.6	63	88.2	60.8	70	80.4	81.2	40.1	42.9	80.7
Total organic carbon (%)			0.534	3.52	1.15	7.06	3.35	3.09	2.92	6.74	18.7	0.562
Metals (mg/kg)												
Arsenic	57	93	**9** J	**30** J	**10** J	**110** J	**32** J	30 UJ	30 UJ	**10** J	**40** J	**8** J
Copper	390	390	**34.9** J	**233** J	**28** J	**442** J	**328** J	**109** J	**109** J	**297** J	**2,200** J	**11.5** J
Lead	450	530	**19** J	**576** J	**9** J	**432** J	**369** J	**70** J	**50** J	**150** J	**1,710** J	**5** J
Mercury	0.41	0.59	0.03 UJ	**1.34** J	0.02 UJ	**0.36** J	**0.11** J	**0.05** J	**0.06** J	**0.10** J	**4.29** J	0.02 UJ
Zinc	410	960	**130** J	**682** J	**112** J	**1,170** J	**487** J	**222** J	**243** J	**2,530** J	**8,960** J	**32** J
Total petroleum hydrocarbons (mg/kg)												
TPH-diesel	2,000[b]		58 U	**330**	**60**	**2,100**	**670**	**520**	61 U	**830**	**17,000**	60 U
TPH-oil	2,000[b]		**390**	**1,300**	**370**	**4,900**	**3,100**	**380**	**340**	**2,400**	**60,000**	120 U
LPAH (ug/kg DW)												
Acenaphthene	500	500	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	**1,800** J	20 U
Acenaphthylene	1,300	1,300	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Anthracene	960	960	44 U	170 U	40 U	**160** J	240 U	58 U	58 U	290 U	**3,200**	**11** J
Fluorene	540	540	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	**4,600**	20 U
Naphthalene	2,100	2,100	**110**	170 U	40 U	180 U	240 U	58 U	58 U	290 U	**4,100**	20 U
Phenanthrene	1,500	1,500	**44**	**260**	**61**	**590**	**300**	**34** J	**36** J	**650**	**16,000**	**95**
Total LPAH	5,200	5,200	**154**	**260**	**61**	**750** J	**300**	**34** J	**36** J	**650**	**29,700**	**106** J
HPAH (ug/kg DW)												
Benzo(a)anthracene	1,300	1,600	**27** J	**260**	**44**	**720**	**310**	**40** J	**39** J	**480**	**5,100**	**88**
Benzo(a)pyrene	1,600	1,600	**24** J	**370**	**44**	**1,000**	**300**	**51** J	**56** J	**620**	**4,000**	**89**
Benzo(b)fluoranthene	3,200	3,600	**45**	**510**	**51**	**1,300**	**440**	**55** J	**81** J	**980**	**4,100**	**160**
Benzo(g,h,i)perylene	670	720	44 U	**350**	40 U	**610**	**160** J	**110** J	**94** J	**380**	2,700 U	**27**
Benzo(k)fluoranthene	3,200	3,600	**39** J	**350**	**40**	**890**	**490**	**55** J	**42** J	**980**	**4,100**	**130**
Chrysene	1,400	2,800	**55**	**430**	**66**	**1,400**	**590**	**76** J	**70** J	**1,200**	**7,300**	**120**
Dibenz(a,h)anthracene	230	230	44 U	170 U	40 U	**110** J	240 U	58 U	58 U	290 U	2,700 U	20 U
Fluoranthene	1,700	2,500	**89**	**640**	**120**	**2,800**	**850**	**94** J	**97** J	**1,600**	**16,000**	**300**
Indeno(1,2,3-cd)pyrene	600	690	44 U	**220**	40 U	**460**	240 U	**46** J	**48** J	**300**	2,700 U	**31**
Pyrene	2,600	3,300	**71**	**530**	**95**	**2,200**	**1,000**	**68** J	**61** J	**1,200**	**15,000**	**180**
Total HPAH	12,000	17,000	**350** J	**3,660**	**460**	**11,490** J	**4,140** J	**595** J	**588** J	**7,740**	**55,600**	**1,125**
Phthalates (ug/kg dw)												
Bis(2-ethylhexyl)phthalate	1,300	1,900	**530**	**920**	**300**	**5,100**	**6,700**	**170** J	**120** J	**20,000**	**210,000**	**34**
Butylbenzylphthalate	63	900	44 U	**230**	40 U	**600**	240 U	**47** J	**36** J	**1,200**	**12,000**	20 U
Diethylphthalate	200		44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	**20** B
Dimethylphthalate	71	160	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	**4,200**	20 U
Di-n-butylphthalate	1,400	1,400	44 U	170 U	40 U	180 U	240 U	58 U	58 U	**210** J	**2,600** J	20 U
Di-n-octyl phthalate	6,200		**100**	170 U	40 U	180 U	240 U	58 U	58 U	**5,700**	**23,000**	20 U
PCBs (ug/kg dw)												
Aroclor 1016			96 U	99 U	19 U	97 U	97 U	20 U	19 U	39 U	420 U	20 U
Aroclor 1221			96 U	99 U	19 U	97 U	97 U	20 U	19 U	39 U	420 U	20 U
Aroclor 1232			96 U	99 U	19 U	97 U	97 U	20 U	19 U	39 U	420 U	20 U
Aroclor 1242			96 U	99 U	19 U	97 U	97 U	20 U	19 U	39 U	**17,000**	20 U
Aroclor 1248			96 U	99 U	19 U	97 U	97 U	20 U	19 U	39 U	420 U	20 U
Aroclor 1254			210 Y	**190**	19 U	**200** J	**130**	20 U	19 U	**53**	**6,400**	20 U
Aroclor 1260			**620**	**150**	19 U	**250**	**140**	20 U	19 U	**120**	**1,600** J	20 U
Total PCBs	130	1,000	**620**	**340**	19 U	**450** J	**270**	20 U	19 U	**173**	**25,000** J	20 U
Other organic compounds (ug/kg dw)												
1,2,4-Trichlorobenzene	31	51	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
1,2-Dichlorobenzene	35	50	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
1,3-Dichlorobenzene			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
1,4-Dichlorobenzene	110	110	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
1-Methylnaphthalene												
2,2'-Oxybis(1-chloropropane)			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
2,4,5-Trichlorophenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
2,4,6-Trichlorophenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
2,4-Dichlorophenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U

DT-6: Inline sediment grab sample results (dry weight).

Station ID			MH232	MH233	MH234	MH235	MH236	MH237	MH238	MH239	MH240	CB208
Lab Ref			PA42	PA42	PA42	PA42	PA57	PB04	PB04	PB20	PB20	PB20
Type[c]			Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline	Inline
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S River St SD	Diagonal Ave S CSO/SD	SW Idaho St SD	SW Idaho St SD	S 96th St SD	S Garden St SD	KCIA SD#2/PS45 EOF
Date	SQS/ LAET	CSL/ 2LAET	05/27/09	05/27/09	05/27/09	05/27/09	05/28/09	06/02/09	06/02/09	06/03/09	06/03/09	06/03/09
2,4-Dimethylphenol[a]	29	29	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
2,4-Dinitrophenol			440 U	1,700 U	400 U	1,800 U	2,400 U	580 U	580 U	2,900 U	27,000 U	200 U
2,4-Dinitrotoluene			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
2,6-Dinitrotoluene			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
2-Chloronaphthalene			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
2-Chlorophenol			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
2-Methylnaphthalene	670	670	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	**13,000**	20 U
2-Methylphenol[a]	63	63	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
2-Nitroaniline			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
2-Nitrophenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
3,3'-Dichlorobenzidine			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
3-Nitroaniline			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
4,6-Dinitro-2-methylphenol			440 U	1,700 U	400 U	1,800 U	2,400 U	580 U	580 U	2,900 U	27,000 U	200 U
4-Bromophenyl-phenylether			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
4-Chloro-3-methylphenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
4-Chloroaniline			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
4-Chlorophenyl-phenylether			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
4-Methylphenol[a]	670	670	44 U	170 U	**34** J	180 U	240 U	58 U	58 U	**2,800**	2,700 U	20 U
4-Nitroaniline			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
4-Nitrophenol			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
Benzoic acid[a]	650	650	440 U	1,700 U	400 U	1,800 U	2,400 U	580 U	580 U	2,900 U	27,000 U	200 U
Benzyl alcohol[a]	57	73	44 U	170 U	40 U	180 U	240 U	58 U	58 U	**410**	2,700 U	20 U
bis(2-Chloroethoxy) methane			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Bis-(2-chloroethyl) ether			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Carbazole			44 U	170 U	40 U	**110** J	240 U	58 U	58 U	290 U	**1,500** J	**25**
Dibenzofuran	540	540	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Hexachlorobenzene	22	70	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Hexachlorobutadiene	11	120	44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Hexachlorocyclopentadiene			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
Hexachloroethane			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Isophorone			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
Nitrobenzene			44 U	170 U	40 U	180 U	240 U	58 U	58 U	290 U	2,700 U	20 U
N-Nitroso-di-n-propylamine			220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
N-Nitrosodiphenylamine	28	40	44 U	170 U	40 U	240 Y	240 U	58 U	58 U	290 U	2,700 U	20 U
Pentachlorophenol[a]	360	690	220 U	840 U	200 U	880 U	1,200 U	290 U	290 U	1,400 U	13,000 U	98 U
Phenol[a]	420	1,200	44 U	170 U	40 U	180 U	**220** J	58 U	58 U	**420**	2,700 U	20 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB1	CB2	CB3	CB4	CB5	CB7	CB8	CB9	CB10	CB10	CB11	CB12	CB13	CB13	CB15	CB16
Lab Ref			FT97	FT97	FV26	FV26	FV26	FY40	GA19	GG14	GG14	RD69/RE85	GG14	GG14	GG14	RK00	GH92, GK99	GH92, GK99
Utility Type[c]			CS	SD	SD	SD	SD	SD	CS	CS	SD	SD	CS	SD	CS	CB	SD	CS
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	08/21/03	08/21/03	09/05/03	09/08/03	09/10/03	10/15/03	11/04/03	01/22/04	01/22/04	07/09/10	01/23/04	01/23/04	01/23/04	08/23/10	02/09/04	02/09/04
Total solids (%)			36.7	48.5	82.1	61.6	34.4	31.3	58.3	73.5	58.0	18.4	53.7	53.5	64.7	56.3	78.8	77.8
TOC (%)			7.8	26.0	0.5	3.4	15.0	17.0	9.2	2.7	15.0	20.8	6.2	6.7	3.3	5.5	4.0	4.8
Metals (mg/kg)																		
Arsenic	57	93	10 U	40 U	6 U	20 U	20 U	10 U	**13**	**20**	8 U	**20** U	**40**	10 U	**12**	**12**	**9**	**12**
Copper	390	390	**161**	**1,520**	**29.6**	**135**	**147**	**647**	**275**	**177**	**86.6**	**279**	**325**	**181**	**95.7**	**131**	**142** J	**39.1**
Lead	450	530	**125**	**1,110**	**10**	**47**	**51**	**1,220**	**205**	**105**	**96**	**168**	**445**	**97**	**127** J	**90**	**476** J	**253**
Mercury	0.41	0.59	**0.3**	**0.5**	0.05 U	0.08 U	0.2 U	0.1 U	**0.1**	0.06 U	**0.07**	**0.1**	**0.68**	**0.1**	**0.09**	**0.1**	0.06 U	**0.08**
Zinc	410	960	**1,100** J	**2,720**	**55**	**360**	**412**	**1,150**	**603**	**294**	**250**	**1,130**	**3,940**	**603**	**432**	**521**	**98.3**	**161**
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		NA	**34,000**	**15**	**1,800**	**2,600**	**9,900**	**2,000**	50 U	**930**	**1,100**	**370** J	**41**	**51** J	**99**	**380**	**1,400**
TPH-oil	2,000[b]		NA	**71,000**	**52**	**6,300**	**9,200**	**13,000**	**4,500**	**300**	**2,000**	**7,500**	**2,100** J	**270**	**300**	**580**	**3,900**	**6,800**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	**1,400**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Acenaphthylene	1,300	1,300	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	**300**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Anthracene	960	960	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	**39** J	**6,300**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Fluorene	540	540	620 U	**2,300**	19 U	**410**	**1,900** J	1,100 U	**710**	40 U	**1,800**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Naphthalene	2,100	2,100	620 U	**9,500**	19 U	95 U	2,800 U	**3,100**	250 U	40 U	240 U	2,000 U	71 U	49 U	**40**	160 U	82 U	160 U
Phenanthrene	1,500	1,500	**1,100**	**7,600**	19 U	**990**	**3,500** J	**2,300**	**2,300**	**140**	**9,500**	**1,300** J	**310**	**95**	**260**	**480**	82 U	**500**
Total LPAH	5,200	5,200	**1,100**	**19,400**	19 U	**1,400**	**5,400** J	**5,400**	**3,010**	**179** J	**19,300**	**1,300** J	**310**	**95**	**300**	**480**	82 U	**500**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	140	**27,000**	2,000 U	**200**	**120**	**160**	**160** J	82 U	**240**
Benzo(a)pyrene	1,600	1,600	620 U	2,200 Y	19 U	95 U	2,800 U	1,100 U	250 U	**180**	**30,000**	**1,400** J	**250**	**130**	**210**	**260**	82 U	**210**
Benzo(b)fluoranthene	3,200	3,600	**1,900**	6,800 Y	19 U	95 U	2,800 U	1,100 U	250 U	**410**	**40,000**	**3,000**	**360**	**200**	**320**	160 U	82 U	**320**
Benzo(g,h,i)perylene	670	720	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	**66**	**12,000**	**1,400** J	**160**	**84**	**120** J	**340**	82 U	160 U
Benzo(k)fluoranthene	3,200	3,600	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	**240**	**17,000**	**3,000**	**360**	**200**	**260**	160 U	82 U	**260**
Chrysene	1,400	2,800	**710**	**2,800**	19 U	**140**	**320** J	1,100 U	250 U	**270**	**26,000**	**2,200**	**480**	**240**	**330**	**550**	**150**	**420**
Dibenz(a,h)anthracene	230	230	**630**	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	**6,800**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Fluoranthene	1,700	2,500	**1,600**	**5,000**	19 U	**250**	**710** J	1,100 U	**770**	**360**	**50,000**	**2,200**	**610**	**270**	**530**	**620**	82 U	**690**
Indeno(1,2,3-cd)pyrene	600	690	**1,100**	3,900 Y	19 U	95 U	2,800 U	1,100 U	250 U	**86**	**16,000**	2,000 U	**140**	**69**	**120**	**190**	82 U	160 U
Pyrene	2,600	3,300	**1,200**	**6,100**	19 U	**450**	**2,200** J	**4,800**	**1,600** J	**200**	**32,000**	**2,400**	**580**	**340**	**500**	**600**	**170**	**670**
Total HPAH	12,000	17,000	**7,140**	**13,900**	19 U	**840**	**3,230** J	**4,800**	**2,370** J	**1,952**	**256,800**	**15,600** J	**3,140**	**1,653**	**2,550** J	**2,720** J	**320**	**2,810**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**19,000** B	**200,000** B	**130**	**32,000**	**67,000**	**140,000**	**71,000**	**2,200**	**1,500**	**90,000**	**6,200**	**6,600**	**4,500**	**9,200** B	**380**	**11,000**
Butylbenzylphthalate	63	900	**1,900** J	**7,800**	**20**	**1,000**	**10,000** J	1,100 U	**9,900**	**410**	240 U	2,000 U	**360**	**240**	**130**	**560**	82 U	**310**
Diethylphthalate	200		620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Dimethylphthalate	71	160	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	**1,200**	**66**	**650**	82 U	160 U
Di-n-butylphthalate	1,400	1,400	**5,400** J	**5,400**	19 U	95 U	2,800 U	1,100 U	**1,400**	40 U	240 U	2,000 U	**180**	**88**	**680**	160 U	82 U	**180**
Di-n-octyl phthalate	6,200		**16,000** J	5,500 Y	19 U	**650**	**2,600** J	**3,300** J	**4,400**	40 U	240 U	2,000 U	**530**	**280**	**53**	160 U	82 U	**490**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	19 U	19 U	20 U	20 U	99 U	18 U	17 U	20 U	17 U	18 U	35 U	41 U	19 U	20 U
Aroclor 1221			39 U	38 U	39 U	38 U	40 U	40 U	200 U	18 U	17 U	20 U	17 U	18 U	35 U	41 U	19 U	20 U
Aroclor 1232			20 U	19 U	19 U	19 U	20 U	20 U	99 U	18 U	17 U	20 U	17 U	18 U	35 U	41 U	19 U	20 U
Aroclor 1242			20 U	19 U	19 U	19 U	20 U	20 U	99 U	18 U	17 U	20 U	17 U	18 U	35 U	41 U	19 U	20 U
Aroclor 1248			20 U	19 UJ	19 U	19 U	20 UJ	20 U	99 U	18 U	17 U	**40**	**30**	18 U	46 Y	62 Y	19 U	20 U
Aroclor 1254			**160**	210 UJ	19 U	19 U	20 UJ	**22**	**1,000**	**52**	17 U	**66**	**130**	**23**	**530**	**260**	19 U	**51**
Aroclor 1260			20 U	19 UJ	19 U	19 U	20 UJ	**26**	99 U	**45**	17 U	**38** J	**95** J	**18** J	**160** J	**66**	19 U	20 U
Total PCBs	130	1,000	**160**	210 UJ	39 U	38 U	40 UJ	**48**	**1,000**	**97**	17 U	**255** J	**255** J	**41** J	**690** J	**326**	19 U	**51**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
1,2-Dichlorobenzene	35	50	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
1,3-Dichlorobenzene			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
1,4-Dichlorobenzene	110	110	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	**120**	49 U	40 U	160 U	82 U	160 U
1-Methylnaphthalene												2,000 U				**80** J		
2,2'-Oxybis(1-chloropropane)			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
2,4,5-Trichlorophenol			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
2,4,6-Trichlorophenol			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
2,4-Dichlorophenol			1,900 U	6,200 U	57 U	290 U	8,400 U	3,400 U	740 U	120 U	710 U	10,000 U	210 U	150 U	120 U	800 U	250 U	490 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB1	CB2	CB3	CB4	CB5	CB7	CB8	CB9	CB10	CB10	CB11	CB12	CB13	CB13	CB15	CB16
Lab Ref			FT97	FT97	FV26	FV26	FV26	FY40	GA19	GG14	GG14	RD69/RE85	GG14	GG14	GG14	RK00	GH92, GK99	GH92, GK99
Utility Type[c]			CS	SD	SD	SD	SD	SD	CS	CS	SD	SD	CS	SD	CS	CB	SD	CS
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	08/21/03	08/21/03	09/05/03	09/08/03	09/10/03	10/15/03	11/04/03	01/22/04	01/22/04	07/09/10	01/23/04	01/23/04	01/23/04	08/23/10	02/09/04	02/09/04
2,4-Dimethylphenol[a]	29	29	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
2,4-Dinitrophenol			6,200 U	21,000 U	190 U	950 U	28,000 U	11,000 U	2,500 U	400 U	2,400 U	20,000 U	710 U	490 U	400 U	1,600 U	820 U	1,600 U
2,4-Dinitrotoluene			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
2,6-Dinitrotoluene			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
2-Chloronaphthalene			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
2-Chlorophenol			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
2-Methylnaphthalene	670	670	620 U	**26,000**	19 U	**470**	**1,900** J	**12,000**	**700**	40 U	240 U	2,000 U	71 U	49 U	40 U	**120** J	82 U	160 U
2-Methylphenol[a]	63	63	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
2-Nitroaniline			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
2-Nitrophenol			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	2,000 U	350 U	240 U	200 U	160 U	410 U	820 U
3,3'-Dichlorobenzidine			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
3-Nitroaniline			3,700 U	12,000 U	110 U	570 U	17,000 U	6,800 U	1,500 U	240 U	1,400 U	10,000 U	430 U	290 U	240 U	800 U	490 U	980 U
4,6-Dinitro-2-methylphenol			6,200 U	21,000 U	190 U	950 U	28,000 U	11,000 U	2,500	400 U	2,400 U	20,000 U	710 U	490 U	400 U	1,600 U	820 U	1,600 U
4-Bromophenyl-phenylether			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
4-Chloro-3-methylphenol			1,200 U	4,200 U	38 U	190 U	5,600 U	2,300 U	490 U	79 U	470 U	10,000 U	140 U	97 U	79 UJ	800 U	160 U	330 U
4-Chloroaniline			1,900 U	6,200 U	57 U	290 U	8,400 U	3,400 U	740 U	120 U	710 U	10,000 U	210 U	150 U	120 U	800 U	250 U	490 U
4-Chlorophenyl-phenylether			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
4-Methylphenol[a]	670	670	620 U	**14,000**	19 U	95 U	2,800 U	**2,100**	**5,100**	40 U	240 U	2,000 U	71 U	**58**	**67**	**880**	82 U	**210**
4-Nitroaniline			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
4-Nitrophenol			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
Benzoic acid[a]	650	650	6,200 U	21,000 U	190 U	950 U	28,000 U	11,000 U	2,500 U	400 U	2,400 U	20,000 U	710 U	**610**	400 U	**660** J	820 U	1,600 U
Benzyl alcohol[a]	57	73	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
bis(2-Chloroethoxy) methane			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Bis-(2-chloroethyl) ether			1,200 U	4,200 U	38 U	190 U	5,600 U	2,300 U	490 U	79 U	470 U	2,000 U	140 U	97 U	79 U	160 U	160 U	330 U
Carbazole			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	**2,300**	2,000 U	71 U	49 U	**53**	160 U	82 U	160 U
Dibenzofuran	540	540	620 U	2,100 U	19 U	**210**	**890** J	1,100 U	**340**	40 U	**1,100**	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Hexachlorobenzene	22	70	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Hexachlorobutadiene	11	120	620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Hexachlorocyclopentadiene			3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	1,200 U	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 UJ	410 U	820 U
Hexachloroethane			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Isophorone			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Nitrobenzene			620 U	2,100 U	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
n-Nitroso-di-n-propylamine			1,200 U	4,200 U	38 U	190 U	5,600 U	2,300 U	490 U	79 U	470 U	10,000 U	140 U	97 U	79 U	800 U	160 U	330 U
N-Nitrosodiphenylamine	28	40	620 U	4,200 Y	19 U	95 U	2,800 U	1,100 U	250 U	40 U	240 U	2,000 U	71 U	49 U	40 U	160 U	82 U	160 U
Pentachlorophenol[a]	360	690	3,100 U	10,000 U	96 U	480 U	14,000 U	5,700 U	**1,200**	200 U	1,200 U	10,000 U	350 U	240 U	200 U	800 U	410 U	820 U
Phenol[a]	420	1,200	**650**	**5,700**	19 U	**1,200**	**620** J	1,100 U	1,100 U	89 U	240 U	2,000 U	71 U	80 U	91 U	160 U	82 U	160 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB17	CB18	CB19	CB19	CB20	CB21	CB22	CB23	CB24	CB25	CB26	CB27A	CB27A	CB27B	CB27B	CB28
Lab Ref			GH92, GK99	GH92, GK99	GH92, GK99	RD69	GH92, GK99	GJ76	GJ76	GK68	GK68	GK68	GK68	GK68	RI55/RK47	GL98	RI55/RK47	GL98
Utility Type[c]			CS	CS	CS	CS	CS	CS	CS	SD	SD	SD	CS	CS	CB	CS	CB	CS
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Charleston St SD	S Charleston St SD	S Charleston St SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	02/09/04	02/12/04	02/12/04	07/09/10	02/12/04	03/02/04	03/02/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	08/12/10	03/26/04	08/12/10	03/26/04
Total solids (%)			75.5	76.7	54.5	34.5	41.8	70.1	60.7	73.2	64.1	36.2	33.4	49.5	28.3	31.4	16.9	34.4
TOC (%)			3.1	8.9	11.0	22.0	10.0	4.8	1.2	8.4	7.7	16.0	26.0	8.5	17.3	23.5	26.2	13.6
Metals (mg/kg)																		
Arsenic	57	93	**10**	7 U	**25**	10 U	10 U	**8**	20 U	**7**	**11**	10 U	**20**	10 U	**3.3**	20 U	**5**	10 U
Copper	390	390	**53.5**	**79.9**	**405**	**120**	**184**	**194**	**520**	**86.6**	**172**	**187**	**184**	**92.1**	**102**	**137**	**134**	**254**
Lead	450	530	**75**	**55**	**1,530**	**163**	**277**	**97**	**151**	**73**	**299**	**152**	**699**	**109**	**77**	**88**	**70**	**327**
Mercury	0.41	0.59	**1.49**	**0.22**	**1.82**	**0.31**	**1.16**	0.06 U	**0.16**	0.07 U	**0.2**	**0.2**	**1.7**	**0.1**	**0.1**	0.1 U	0.1 U	**0.2**
Zinc	410	960	**256**	**359**	**1,170**	**629**	**754**	**305**	**433**	**501**	**699**	**912**	**1,470**	**396**	**613**	**537**	**594**	**677**
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**1,800**	**970**	**3,500**	**910**	**2,100**	**1,900**	**190**	**800**	**730**	**2,900**	**8,700**	**5,200**	**2,100**	**6,600**	**4,300**	**440**
TPH-oil	2,000[b]		**8,000**	**6,100**	**13,000**	**6,000**	**7,800**	**4,900**	**920**	**3,900**	**5,700**	**15,000**	**29,000**	**22,000**	**13,000**	**9,400**	**30,000**	**3,100**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	170 U	190 U	1,200 U	160 U	270 U	**400**	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	**66**
Acenaphthylene	1,300	1,300	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Anthracene	960	960	170 U	190 U	1,200 U	160 U	270 U	**270**	39 U	60 U	350 U	500 U	**1,000**	2,100 U	2,000 U	2,800 U	2,100 U	**180**
Fluorene	540	540	170 U	190 U	1,200 U	160 U	270 U	**630**	39 U	60 U	350 U	500 U	**900**	2,100 U	2,000 U	2,800 U	2,100 U	**80**
Naphthalene	2,100	2,100	170 U	190 U	**1,200**	**85** J	**520**	**560**	39 U	**240**	350 U	500 U	**4,100**	**9,400**	2,000 U	2,800 U	2,100 U	59 U
Phenanthrene	1,500	1,500	**270**	190 U	**2,000**	**220**	**420**	**1,900**	39 U	60 U	**810**	**610**	**8,900**	2,100 U	2,000 U	2,800 U	**2,400**	**990**
Total LPAH	5,200	5,200	**270**	190 U	**3,200**	**305** J	**940**	**3,760**	39 U	**240**	**810**	**610**	**14,900**	**9,400**	2,000 U	2,800 U	**2,400**	**1,316**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	170 U	190 U	**920** J	160 U	270 U	**570**	39 U	60 U	**930**	500 U	**3,900** J	2,100 U	2,000 U	2,800 U	**1,200** J	**450**
Benzo(a)pyrene	1,600	1,600	170 U	190 U	1,200 U	**110** J	270 U	**500**	39 U	**93**	**1,500** J	500 U	**4,900** J	2,100 U	2,000 U	2,800 U	**1,400** J	**510**
Benzo(b)fluoranthene	3,200	3,600	**190**	190 U	**1,100** J	**180**	**310**	**650**	39 U	**140** J	**1,800** J	**610** J	**7,700** J	2,100 U	**1,300** J	**3,400**	**2,400**	**710**
Benzo(g,h,i)perylene	670	720	170 U	190 U	1,200 U	**200**	270 U	**140**	39 U	60 U	**1,000** J	500 U	**2,300** J	2,100 U	2,000 U	2,800 U	2,100 U	**240**
Benzo(k)fluoranthene	3,200	3,600	**190**	190 U	**900** J	**180**	**350**	**650**	39 U	**140** J	**1,500** J	**610** J	**6,100** J	2,100 U	**1,300** J	2,800 U	**2,400**	**570**
Chrysene	1,400	2,800	**340**	**200**	**1,700**	**460**	**380**	**700**	39 U	**140** J	**1,600**	**1,000**	**9,200** J	2,100 U	**1,500** J	**4,000**	**3,000**	**710**
Dibenz(a,h)anthracene	230	230	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	**740** J	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Fluoranthene	1,700	2,500	**360**	190 U	**2,400**	**390**	**670**	**1,400**	39 U	**120**	**2,500**	**2,100**	**47,000**	**2,800**	**2,300**	**6,400**	**6,700**	**1,400**
Indeno(1,2,3-cd)pyrene	600	690	170 U	190 U	1,200 U	**85** J	270 U	**130**	39 U	60 U	**960** J	500 U	**2,800** J	2,100 U	2,000 U	2,800 U	2,100 U	**220**
Pyrene	2,600	3,300	**460**	**290**	**2,600**	**680**	**600**	**1,300**	39 U	**320** J	**1,100**	**1,300**	**9,300** J	**2,600**	**1,200** J	**5,100**	**3,800**	**1,300**
Total HPAH	12,000	17,000	**1,540**	**490**	**9,620** J	**2,285** J	**2,310**	**6,040**	39 U	**953** J	**12,890**	**5,620**	**93,940**	**5,400**	**7,600** J	**18,900**	**20,900** J	**6,110**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**17,000**	**20,000**	**53,000**	**30,000**	**99,000**	**17,000**	**410**	**4,600**	**12,000** J	**120,000**	**64,000** J	**33,000**	**20,000** B	**140,000**	**1,400,000** B	**14,000**
Butylbenzylphthalate	63	900	**480**	**290**	**12,000**	**910**	**1,800**	**860**	39 U	60 U	**430**	**6,500**	**11,000** J	2,100 U	**1,400** J	**9,000**	**3,600**	**360**
Diethylphthalate	200		170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Dimethylphthalate	71	160	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Di-n-butylphthalate	1,400	1,400	170 U	190 U	1,200 U	**440**	**470**	**130**	**43**	60 U	350 U	**680**	720 U	2,100 U	2,000 U	2,800 U	2,100 U	**660**
Di-n-octyl phthalate	6,200		**850**	**280**	**1,400**	**760** J	**1,800**	**1,800**	39 U	99 U	350 U	**4,000**	**1,100** J	2,100 U	2,000 U	**2,900**	2,100 U	**260**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	20 U	20 U	20 U	19 U	75 U	20 U	20 U	20 U	98 U	20 U	48 U	110 U	82 U	20 U
Aroclor 1221			20 U	19 U	20 U	20 U	20 U	19 U	75 U	20 U	20 U	20 U	98 U	20 U	48 U	110 U	82 U	20 U
Aroclor 1232			20 U	19 U	20 U	20 U	20 U	19 U	75 U	20 U	20 U	20 U	98 U	20 U	48 U	110 U	82 U	20 U
Aroclor 1242			20 U	19 U	20 U	20 U	20 U	19 U	75 U	20 U	20 U	20 U	98 U	20 U	48 U	110 U	82 U	20 U
Aroclor 1248			20 U	19 U	**84**	**76**	**67**	19 U	75 U	20 UJ	20 U	20 UJ	**540** J	**55**	48 U	110 U	120 Y	20 U
Aroclor 1254			**58**	19 U	**120**	**84**	**79**	**24**	75 U	20 UJ	32 Y	**39** J	**280** J	**52**	48 U	**68** J	**150**	**18** J
Aroclor 1260			20 U	19 U	**85**	**50** J	**48**	19 U	**3,200**	20 UJ	71 Y	41 UJ	**120** J	**34**	48 U	110 U	**180**	20 U
Total PCBs	130	1,000	**58**	19 U	**289**	**194** J	**194**	**24**	**3,200**	20 U	71 Y	**39** J	**940** J	**141**	48 U	**68** J	**330**	**18** J
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
1,2-Dichlorobenzene	35	50	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
1,3-Dichlorobenzene			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
1,4-Dichlorobenzene	110	110	170 U	190 U	1,200 U	160 U	270 U	**310**	**520,000**	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
1-Methylnaphthalene						**91** J									2,000 U		2,100 U	
2,2'-Oxybis(1-chloropropane)			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
2,4,5-Trichlorophenol			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
2,4,6-Trichlorophenol			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
2,4-Dichlorophenol			520 U	560 U	3,600 U	800 U	820 U	310 U	**140**	180 U	1,100 U	1,500 U	2,200 U	6,200 U	10,000 U	8,300 U	10,000 U	180 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB17	CB18	CB19	CB19	CB20	CB21	CB22	CB23	CB24	CB25	CB26	CB27A	CB27A	CB27B	CB27B	CB28
Lab Ref			GH92, GK99	GH92, GK99	GH92, GK99	RD69	GH92, GK99	GJ76	GJ76	GK68	GK68	GK68	GK68	GK68	RI55/RK47	GL98	RI55/RK47	GL98
Utility Type[c]			CS	CS	CS	CS	CS	CS	CS	SD	SD	SD	CS	CS	CB	CS	CB	CS
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Charleston St SD	S Charleston St SD	S Charleston St SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	02/09/04	02/12/04	02/12/04	07/09/10	02/12/04	03/02/04	03/02/04	03/15/04	03/15/04	03/15/04	03/15/04	03/15/04	08/12/10	03/26/04	08/12/10	03/26/04
2,4-Dimethylphenol[a]	29	29	170 U	190 U	1,200 U	160 U	270 U	520 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
2,4-Dinitrophenol			1,700 U	1,900 U	12,000 U	1,600 U	2,700 U	1,000 U	390 U	600 U	3,500 U	5,000 U	7,200 U	21,000 U	20,000 U	28,000 U	21,000 U	590 U
2,4-Dinitrotoluene			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
2,6-Dinitrotoluene			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
2-Chloronaphthalene			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
2-Chlorophenol			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
2-Methylnaphthalene	670	670	170 U	190 U	**2,900**	**130** J	**420**	**2,800**	39 U	**370**	350 U	500 U	**8,600**	**17,000**	2,000 U	2,800 U	2,100 U	59 U
2-Methylphenol[a]	63	63	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
2-Nitroaniline			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
2-Nitrophenol			860 U	930 U	6,000 U	160 U	1,400 U	100 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	2,000 U	14,000 U	2,100 U	300 U
3,3'-Dichlorobenzidine			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
3-Nitroaniline			1,000 U	1,100 U	7,200 U	800 U	1,600 U	620 U	240 U	360 U	2,100 U	3,000 U	4,300 U	12,000 U	10,000 U	17,000 U	10,000 U	360 U
4,6-Dinitro-2-methylphenol			1,700 U	1,900 U	12,000 U	1,600 U	2,700 U	1,000 U	390 U	600 U	3,500 U	5,000 U	7,200 U	21,000 U	20,000 U	28,000 U	21,000 U	590 U
4-Bromophenyl-phenylether			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
4-Chloro-3-methylphenol			350 U	370 U	2,400 U	800 U	550 U	**5,700** B[1]	780 U	120 U	710 U	1,000 U	1,400 U	4,100 U	10,000 U	5,600 U	10,000 U	120 U
4-Chloroaniline			520 U	560 U	3,600 U	800 U	820 U	310 U	120 U	180 U	1,100 U	1,500 U	2,200 U	6,200 U	10,000 U	8,300 U	10,000 U	180 U
4-Chlorophenyl-phenylether			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
4-Methylphenol[a]	670	670	**250**	190 U	**1,400**	**2,300**	**1,400**	100 U	39 U	60 U	350 U	**3,100**	**8,600**	2,100 U	**6,900**	**89,000**	**61,000**	**500**
4-Nitroaniline			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
4-Nitrophenol			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 U	14,000 U	10,000 U	300 U
Benzoic acid[a]	650	650	1,700 U	1,900 U	12,000 U	**560** J	2,700 U	100 U	390 U	600 U	3,500 U	5,000 U	7,200 U	21,000 U	20,000 U	28,000 U	21,000 U	590 U
Benzyl alcohol[a]	57	73	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
bis(2-Chloroethoxy) methane			170 U	190 U	1,200 U	160 U	270 U	1,000 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Bis-(2-chloroethyl) ether			350 U	370 U	2,400 U	160 U	550 U	210 U	79 U	120 U	710 U	1,000 U	1,400 U	4,100 U	2,000 U	5,600 U	2,100 U	120 U
Carbazole			170 U	190 U	1,200 U	160 U	270 U	**170**	39 U	60 U	350 U	500 U	**1,800**	2,100 U	2,000 U	2,800 U	2,100 U	**170**
Dibenzofuran	540	540	170 U	190 U	1,200 U	160 U	270 U	**180**	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Hexachlorobenzene	22	70	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Hexachlorobutadiene	11	120	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Hexachlorocyclopentadiene			860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 UJ	14,000 U	10,000 UJ	300 U
Hexachloroethane			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Isophorone			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Nitrobenzene			170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
n-Nitroso-di-n-propylamine			350 U	370 U	2,400 U	800 U	550 U	210 U	79 U	120 U	710 U	1,000 U	1,400 U	4,100 U	10,000 U	5,600 U	10,000 U	120 U
N-Nitrosodiphenylamine	28	40	170 U	190 U	1,200 U	160 U	270 U	100 U	39 U	60 U	350 U	500 U	720 U	2,100 U	2,000 U	2,800 U	2,100 U	59 U
Pentachlorophenol[a]	360	690	860 U	930 U	6,000 U	800 U	1,400 U	520 U	200 U	300 U	1,800 U	2,500 U	3,600 U	10,000 U	10,000 UJ	14,000 U	10,000 UJ	300 U
Phenol[a]	420	1,200	170 U	190 U	1,200 U	**170**	270 U	100 U	**52**	60 U	350 U	500 U	720 U	2,100 U	2,000 U	**3,700**	2,100 U	**170**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB29	CB30	CB30	CB31	CB32	CB33	CB34	CB35	CB36	CB37	CB38	CB39	CB40	CB40	CB41a	CB41b
Lab Ref			GN05	GP10	RN27/RP58	GP60	GQ68	GQ68	GQ68	GQ68	GQ68	GU05	GU05	GU05	GX63	PZ97	GZ01	HB46
Utility Type[c]			CS	CS	CB	SD	SD	SD	SD	SD	SD	Direct	SD	SD	SD	RCB	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Charleston St SD	Diagonal Ave S CSO/SD	LDW	LDW	LDW	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	KCIA SD#2/PS4 5 EOF	KCIA SD#2/PS4 5 EOF	CS	KCIA SD#1
Date	SQS/ LAET	CSL/ 2LAET	04/07/04	04/30/04	09/16/10	05/06/04	05/24/04	05/24/04	05/24/04	05/24/04	05/24/04	06/22/04	06/25/04	06/25/04	08/04/04	12/03/09	08/19/04	09/10/04
Total solids (%)			40.6	66.4	10.9	55.1	22.2	51.2	60.1	67.0	64.7	48.4	72.1	68.7	75.9	72.1	58.7	53.5
TOC (%)			11.3	8.2	27.8	3.7	20.7	11.4	9.3	9.0	10.6	4.7	6.4	6.2	3.0	4.46	13.5	10.1
Metals (mg/kg)																		
Arsenic	57	93	10 U	11	16	20 U	20 U	20	8 U	8 U	8 U	20 U	7 U	7 U	6 U	7 UJ	20 U	8 U
Copper	390	390	261	79.4	854	186	194	118	98.7	78.6	201	173	66.2	346	92.4	41 J	134	92
Lead	450	530	164	2,010	320	231	131	82	110	87	152	250	54	46	90	63 J	428	232
Mercury	0.41	0.59	0.09 U	0.84	1.1	0.12	0.2 U	0.09	0.07 U	0.1	0.07 U	0.08	0.08	0.08	0.61	0.03 UJ	0.11	0.17
Zinc	410	960	668	257	900	590	874	924	833	382	420	1,220	209	218	271	228 J	711	740
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		5,000	620	390	200	770 J	900	430	4,000	5,300	180	960	640	600	800	72,000	3,900
TPH-oil	2,000[b]		21,000	2,800	4,200	670	3,000 J	3,100	2,400	2,700	14,000	650	3,300	2,400	2,300	2,600	77,000	17,000
LPAH (ug/kg DW)																		
Acenaphthene	500	500	880 U	210 U	92 J	59 U	520 U	320 U	310 U	940	9,700	170	2,600	3,200	850	1,300	14,000 U	1,400 J
Acenaphthylene	1,300	1,300	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850	260	14,000 U	1,400 U
Anthracene	960	960	880 U	250	210	59 U	520 U	320 U	440	750	15,000	820	6,400	9,700	2,200	3,000	14,000 U	1,400 U
Fluorene	540	540	880 U	210 U	160	59 U	520 U	320 U	310 U	1,500	8,400	350	3,400	4,700	1,000	1,600	14,000 U	1,400 U
Naphthalene	2,100	2,100	3,100	210 U	99 J	59 U	520 U	320 U	310 U	150	1,300	140 U	460	400	850 U	240	160,000	1,400 U
Phenanthrene	1,500	1,500	2,100	1,200	1,500 J	67	930	660	2,500	5,200	63,000	3,000	32,000	52,000	19,000	26,000	23,000	1,400 U
Total LPAH	5,200	5,200	5,200	1,450	2,061 J	67	930	660	2,940	8,540	97,400	4,340	44,860	70,000	23,900	32,400	183,000	1,400
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	890	660	520	59 U	520 U	320 U	2,300	3,300	40,000	610	13,000	21,000	12,000	20,000	14,000 U	1,400 U
Benzo(a)pyrene	1,600	1,600	880 U	680	890 J	59 U	560	320 U	3,400	4,100	45,000	200	11,000	18,000	14,000	27,000	14,000 U	1,400 U
Benzo(b)fluoranthene	3,200	3,600	1,000	830	1,100 J	74	920	570	4,200	5,400	62,000	480	16,000	18,000	25,000	36,000	14,000 U	1,400 U
Benzo(g,h,i)perylene	670	720	880 U	320	420 J	59 U	1,400	400	2,200 J	2,600	17,000	140 U	3,800	5,700	7,200	8,200	14,000 U	1,400 U
Benzo(k)fluoranthene	3,200	3,600	1,000	830	1,100 J	59 U	520 U	320 U	2,700	4,500	82,000	320	5,400	6,400	8,800	36,000	14,000 U	1,400 U
Chrysene	1,400	2,800	1,700	1,500	1,500 J	80	1,500	430	3,600	5,700	55,000	1,000	14,000	24,000	21,000	34,000	14,000 U	1,400 U
Dibenz(a,h)anthracene	230	230	880 U	210 U	92 J	59 U	520 U	320 U	390	780	5,100	140 U	1,700	2,600	1,400	5,600	14,000 U	1,400 U
Fluoranthene	1,700	2,500	2,900	2,300	2,200 J	150	1,600	820	5,100	9,300	86,000	3,600	43,000	70,000	33,000	64,000	14,000 U	1,400 U
Indeno(1,2,3-cd)pyrene	600	690	880 U	320	320 J	59 U	540	320 U	2,000	3,100	23,000	140 U	4,900	7,500	9,200	8,700	14,000 U	1,400 U
Pyrene	2,600	3,300	1,900	2,200	2,500 J	160	2,300	610	6,000	10,000	94,000	2,600 J	32,000	51,000	24,000	44,000	14,000 U	1,400 U
Total HPAH	12,000	17,000	9,390	9,640	10,642 J	464	8,820	2,830	31,890 J	48,780	509,100	8,810 J	144,800	224,200	155,600	283,500	14,000 U	1,400 U
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	63,000	11,000	570,000 B	460	34,000	9,900	4,200	11,000	24,000	1,600 J	5,000	4,700	5,500	5,500	74,000	41,000
Butylbenzylphthalate	63	900	930	520	110 U	59 U	520 U	320 U	310 U	100 U	580	1,300	240	230 U	5,100 J	500	14,000 U	2,600
Diethylphthalate	200		880 U	210 U	110 U	59 U	680	330	310 U	100 U	570 U	140 U	210 U	230 U	850 U	45 J	14,000 U	1,400 U
Dimethylphthalate	71	160	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	170	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Di-n-butylphthalate	1,400	1,400	1,300	210 U	110 U	59 U	3,200	320 U	310 U	100 U	570 U	280	210 U	230 U	850 U	100	14,000 U	1,400 U
Di-n-octyl phthalate	6,200		4,600	210 U	1,600 J	59 U	1,100	930	1,100	420	960	140 U	210 U	230 U	850 U	4,400	14,000 U	1,400 U
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	130 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	20 U	98 U	98 U	51 U
Aroclor 1221			20 U	19 U	130 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	20 U	98 U	98 U	51 U
Aroclor 1232			20 U	19 U	130 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	58 Y	98 U	98 U	51 U
Aroclor 1242			20 U	39 Y	130 U	19 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	39 Y	98 U	98 U	51 U
Aroclor 1248			20 U	58 Y	130 U	55	20 U	20 U	20 U	20 U	20 U	20 U	19 U	20 U	200 Y	490 Y	98 U	51 U
Aroclor 1254			29 J	170	290	47	20 U	30	16 J	20 U	20 U	20 U	19 U	20 U	3,000	1,500	98 U	51 U
Aroclor 1260			20 U	89	150	26	20 U	28	20 U	20 U	20 U	20 U	220	400	3,600	1,900	350	51 U
Total PCBs	130	1,000	29 J	259	259	128	20 U	58	16 J	20 U	20 U	20 U	220	400	6,600	3,400	350	51 U
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
1,2-Dichlorobenzene	35	50	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
1,3-Dichlorobenzene			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
1,4-Dichlorobenzene	110	110	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
1-Methylnaphthalene					99 J											210		
2,2'-Oxybis(1-chloropropane)			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
2,4,5-Trichlorophenol			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
2,4,6-Trichlorophenol			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
2,4-Dichlorophenol			2,600 U	620 U	550 U	180 U	1,600 U	970 U	920 U	310 U	1,700 U	410 U	630 U	690 U	2,600 U	450 U	43,000 U	4,200 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB29	CB30	CB30	CB31	CB32	CB33	CB34	CB35	CB36	CB37	CB38	CB39	CB40	CB40	CB41a	CB41b
Lab Ref			GN05	GP10	RN27/RP58	GP60	GQ68	GQ68	GQ68	GQ68	GQ68	GU05	GU05	GU05	GX63	PZ97	GZ01	HB46
Utility Type[c]			CS	CS	CB	SD	SD	SD	SD	SD	SD	Direct	SD	SD	SD	RCB	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	S Charleston St SD	Diagonal Ave S CSO/SD	LDW	LDW	LDW	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	KCIA SD#2/PS4 5 EOF	KCIA SD#2/PS4 5 EOF	CS	KCIA SD#1
Date	SQS/ LAET	CSL/ 2LAET	04/07/04	04/30/04	09/16/10	05/06/04	05/24/04	05/24/04	05/24/04	05/24/04	05/24/04	06/22/04	06/25/04	06/25/04	08/04/04	12/03/09	08/19/04	09/10/04
2,4-Dimethylphenol[a]	29	29	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
2,4-Dinitrophenol			8,800 U	2,100 U	1,100 U	590 U	5,200 U	3,200 U	3,100 U	1,000 U	5,700 U	1,400 U	2,100 U	2,300 U	8,500 U	900 U	140,000 U	14,000 U
2,4-Dinitrotoluene			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
2,6-Dinitrotoluene			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
2-Chloronaphthalene			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
2-Chlorophenol			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
2-Methylnaphthalene	670	670	**7,800**	210 U	**140**	59 U	520 U	**480**	310 U	**1,100**	**1,100**	140 U	**360**	**340**	850 U	**230**	**350,000**	1,400 U
2-Methylphenol[a]	63	63	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
2-Nitroaniline			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
2-Nitrophenol			4,400 U	1,000 U	110 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
3,3'-Dichlorobenzidine			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
3-Nitroaniline			5,300 U	1,200 U	550 U	350 U	3,100 U	1,900 U	1,800 U	620 U	3,400 U	820 U	1,300 U	1,400 U	5,100 U	450 U	86,000 U	8,400 U
4,6-Dinitro-2-methylphenol			8,800 U	2,100 U	1,100 U	590 U	5,200 U	3,200 U	3,100 U	1,000 U	5,700 U	1,400 U	2,100 U	2,300 U	8,500 U	900 U	140,000 U	14,000 U
4-Bromophenyl-phenylether			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
4-Chloro-3-methylphenol			1,800 U	410 U	550 U	120 U	1,000 U	650 U	610 U	210 U	1,100 U	270 U	420 U	460 U	1,700 U	450 U	29,000 U	2,800 U
4-Chloroaniline			2,600 U	620 U	550 U	180 U	1,600 U	970 U	920 U	310 U	1,700 U	410 U	630 U	690 U	2,600 U	450 U	43,000 U	4,200 U
4-Chlorophenyl-phenylether			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
4-Methylphenol[a]	670	670	**2,400**	**3,500**	**210**	59 U	520 U	**1,300**	310 U	100 U	**2,100**	**2,900**	**1,200**	**840**	850 U	**70** J	14,000 U	**2,400**
4-Nitroaniline			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
4-Nitrophenol			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
Benzoic acid[a]	650	650	8,800 U	2,100 U	2,000 Q	590 U	5,200 U	3,200 U	3,100 U	1,000 U	5,700 U	**1,800**	2,100 U	2,300 U	8,500 U	260 J	140,000 U	14,000 U
Benzyl alcohol[a]	57	73	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
bis(2-Chloroethoxy) methane			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Bis-(2-chloroethyl) ether			1,800 U	410 U	110 U	120 U	1,000 U	650 U	610 U	210 U	1,100 U	270 U	420 U	460 U	1,700 U	90 U	29,000 U	2,800 U
Carbazole			880 U	**220**	**270**	59 U	520 U	320 U	310 U	**540**	**15,000**	**170**	**3,900**	**5,100**	**4,400**	90 U	14,000 U	1,400 U
Dibenzofuran	540	540	880 U	210 U	**61** J	59 U	520 U	320 U	310 U	**420**	**3,400**	**150**	**1,200**	**1,500**	**850**	**1,100**	14,000 U	1,400 U
Hexachlorobenzene	22	70	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Hexachlorobutadiene	11	120	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Hexachlorocyclopentadiene			4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
Hexachloroethane			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Isophorone			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	**210**	210 U	230 U	850 U	90 U	14,000 Y	1,400 U
Nitrobenzene			880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
n-Nitroso-di-n-propylamine			1,800 U	410 U	550 U	120 U	1,000 U	650 U	610 U	210 U	1,100 U	270 U	420 U	460 U	1,700 U	450 U	29,000 U	2,800 U
N-Nitrosodiphenylamine	28	40	880 U	210 U	110 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	90 U	14,000 U	1,400 U
Pentachlorophenol[a]	360	690	4,400 U	1,000 U	550 U	290 U	2,600 U	1,600 U	1,500 U	520 U	2,800 U	680 U	1,000 U	1,200 U	4,300 U	450 U	71,000 U	7,000 U
Phenol[a]	420	1,200	880 U	210 U	290 U	59 U	520 U	320 U	310 U	100 U	570 U	140 U	210 U	230 U	850 U	**67** J	14,000 U	1,400 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB42	CB44	CB45	CB46	CB48	CB49	CB50	CB51	CB52	CB53b	CB58	CB72	CB73	CB74	CB75	CB76
Lab Ref			GZ01	HL78	HN38	HN38	HR76	HR76	HR76	HR76	HR76	HV82	HU45	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	CS	SD	SD	SD	SD	SD
Outfall			CS	Georgetown flume	I-5 SD at Slip 4	KCIA SD#3/PS4 4 EOF	Georgetown flume	SW Dakota St SD/ditch	SW Dakota St SD/ditch	SW Dakota St SD/ditch	SW Dakota St SD/ditch	CS	Diagonal Ave S CSO/SD	Norfolk CSO/SD/PS#17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	08/19/04	12/08/04	12/22/04	12/22/04	02/02/05	02/04/05	02/04/05	02/04/05	02/04/05	03/16/05	03/03/05	10/18/05	10/19/05	10/19/05	10/19/05	10/19/05
Total solids (%)			60.7	52.8	38.6	45.9	78.1	73.2	46.5	76.6	55.6	NA	49.1	53.6	NA	43.5	NA	NA
TOC (%)			5.8	26.1	9.7	10.4	1.6	3.6	9.3	4.8	5.1	NA	6.7	7.6	NA	12.0	NA	NA
Metals (mg/kg)																		
Arsenic	57	93	20 U	**12** J	**20**	**20**	**12**	7 U	10 U	**10**	**11**	NA	100 U	**11**	NA	30 U	NA	NA
Copper	390	390	**173** J	**142** J	**6,320**	**5,660**	**51.5**	NA	NA	NA	NA	NA	**3,260**	**164**	NA	**362**	NA	NA
Lead	450	530	**98**	**123** J	**481**	**396**	**343**	**36**	**47**	**99**	**127**	NA	**280**	**49**	NA	**430**	NA	NA
Mercury	0.41	0.59	0.08 U	**0.12** J	**0.3**	**0.2**	**0.32**	0.06 U	0.09 U	**0.12**	**0.13**	NA	**0.34**	0.07 U	NA	**1.51**	NA	NA
Zinc	410	960	**830**	**524** J	**3,420**	**3,530**	**657**	NA	NA	NA	NA	NA	**660**	**1,980**	NA	**1,810**	NA	NA
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**8,000**	**85**	**950**	**1,900**	**98**	NA	NA	NA	**250**	NA	**2,200**	NA	NA	**740**	NA	NA
TPH-oil	2,000[b]		**19,000**	**790**	**4,700**	**4,600**	**210**	NA	NA	NA	**1,700**	NA	**6,100**	NA	NA	**3,400**	NA	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**25,000**	140 U	**760**	1,600 U	**82**	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Acenaphthylene	1,300	1,300	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Anthracene	960	960	**51,000**	140 U	**2,100**	**5,000**	**160**	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Fluorene	540	540	**30,000**	140 U	**1,300**	**3,000**	58 U	NA	NA	NA	120 U	NA	**460**	**600**	NA	**81**	NA	NA
Naphthalene	2,100	2,100	2,300 U	140 U	390 U	1,600 U	**290**	NA	NA	NA	120 U	NA	**1,000**	**460**	NA	**2,500**	NA	NA
Phenanthrene	1,500	1,500	**450,000**	**220**	**17,000**	**35,000**	**2,200**	NA	NA	NA	**680**	NA	**640**	**1,400**	NA	**870**	NA	NA
Total LPAH	5,200	5,200	**556,000**	**220**	**21,160**	**43,000**	**2,732**	NA	NA	NA	**680**	NA	**2,100**	**2,460**	NA	**3,451**	NA	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**310,000**	140 U	**13,000**	**27,000**	**1,400**	NA	NA	NA	**270**	NA	370 U	**180**	NA	**190**	NA	NA
Benzo(a)pyrene	1,600	1,600	**320,000**	140 U	**15,000**	**32,000**	**1,500**	NA	NA	NA	**310**	NA	370 U	**250**	NA	**98**	NA	NA
Benzo(b)fluoranthene	3,200	3,600	**450,000**	**180**	**15,000**	**34,000**	**3,300**	NA	NA	NA	**530**	NA	370 U	**250**	NA	**200**	NA	NA
Benzo(g,h,i)perylene	670	720	**240,000**	140 U	**7,300**	**16,000**	**530**	NA	NA	NA	**160**	NA	370 U	**170**	NA	44 UJ	NA	NA
Benzo(k)fluoranthene	3,200	3,600	**230,000**	**180**	**15,000**	**34,000**	**1,400**	NA	NA	NA	**440**	NA	370 U	**300**	NA	**170**	NA	NA
Chrysene	1,400	2,800	**400,000**	**290**	**20,000**	**43,000**	**1,800**	NA	NA	NA	**650**	NA	**480**	**450**	NA	**280**	NA	NA
Dibenz(a,h)anthracene	230	230	**100,000**	140 U	**2,700**	**5,400**	**85**	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Fluoranthene	1,700	2,500	**860,000**	**410**	**31,000**	**85,000**	**4,700**	NA	NA	NA	**1,200**	NA	**820**	**700**	NA	**920**	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	**290,000**	140 U	**8,600**	**19,000**	**710**	NA	NA	NA	120 U	NA	370 U	130 U	NA	**44**	NA	NA
Pyrene	2,600	3,300	**630,000**	**290**	**23,000**	**49,000**	**2,800**	NA	NA	NA	**750**	NA	**790**	**890**	NA	**490**	NA	NA
Total HPAH	12,000	17,000	**3,830,000**	**1,350**	**150,600**	**344,400**	**18,225**	NA	NA	NA	**4,310**	NA	**2,090**	**3,190**	NA	**2,392**	NA	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**3,300**	**10,000**	**8,800**	**30,000**	**77**	NA	NA	NA	**7,300**	NA	**16,000**	**33,000**	NA	**13,000**	NA	NA
Butylbenzylphthalate	63	900	2,300 U	**430**	**490**	1,600 U	58 U	NA	NA	NA	**1,300**	NA	**2,200**	130 U	NA	**1,000**	NA	NA
Diethylphthalate	200		2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	**480**	NA	370 U	130 U	NA	44 U	NA	NA
Dimethylphthalate	71	160	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	**1,000**	NA	NA
Di-n-butylphthalate	1,400	1,400	2,300 U	**850**	**620**	1,600 U	58 U	NA	NA	NA	**290**	NA	**1,700**	680 U	NA	**52,000**	NA	NA
Di-n-octyl phthalate	6,200		2,300 U	140 U	**1,200**	1,600 U	58 U	NA	NA	NA	**670**	NA	**710**	130 U	NA	**2,400**	NA	NA
PCBs (ug/kg dw)																		
Aroclor 1016			19 U	20 U	58 U	120 Y	19 U	NA	NA	NA	19 U	580 U	20 U	20 U	150,000 U	180 U	31,000 U	26,000 U
Aroclor 1221			19 U	20 U	58 U	120 Y	19 U	NA	NA	NA	19 U	580 U	20 U	20 U	150,000 U	180 U	31,000 U	26,000 U
Aroclor 1232			19 U	20 U	58 U	290 Y	19 U	NA	NA	NA	19 U	580 U	40 Y	20 U	150,000 U	180 U	31,000 U	260,000 U
Aroclor 1242			19 U	20 U	58 U	180 Y	19 U	NA	NA	NA	19 U	580 U	20 U	20 U	150,000 U	180 U	31,000 U	26,000 U
Aroclor 1248			19 U	20 U	58 U	240 Y	19 U	NA	NA	NA	**70**	580 U	40 Y	20 U	150,000 U	**2,900**	31,000 U	26,000 U
Aroclor 1254			19 U	49 Y	**170**	240 Y	**250**	NA	NA	NA	**89**	**2,400**	**200**	59 Y	**800,000**	**8,800**	**96,000**	**1,200,000**
Aroclor 1260			**140**	**180**	**300**	180 Y	77 Y	NA	NA	NA	**64**	**3,900**	99 Y	40 Y	**540,000**	**8,100**	**79,000**	**1,000,000**
Total PCBs	130	1,000	**140**	**180**	**470**	240 Y	**250**	NA	NA	NA	**223**	**6,300**	**200**	40 Y	**1,340,000**	**19,800**	**175,000**	**2,200,000**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
1,2-Dichlorobenzene	35	50	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
1,3-Dichlorobenzene			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
1,4-Dichlorobenzene	110	110	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
1-Methylnaphthalene																		
2,2'-Oxybis(1-chloropropane)			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
2,4,5-Trichlorophenol			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
2,4,6-Trichlorophenol			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
2,4-Dichlorophenol			6,800 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB42	CB44	CB45	CB46	CB48	CB49	CB50	CB51	CB52	CB53b	CB58	CB72	CB73	CB74	CB75	CB76
Lab Ref			GZ01	HL78	HN38	HN38	HR76	HR76	HR76	HR76	HR76	HV82	HU45	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74	IQ73,IQ74
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	CS	SD	SD	SD	SD	SD
Outfall			CS	Georgetown flume	I-5 SD at Slip 4	KCIA SD#3/PS44 EOF	Georgetown flume	SW Dakota St SD/ditch	SW Dakota St SD/ditch	SW Dakota St SD/ditch	SW Dakota St SD/ditch	CS	Diagonal Ave S CSO/SD	Norfolk CSO/SD/PS#17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	08/19/04	12/08/04	12/22/04	12/22/04	02/02/05	02/04/05	02/04/05	02/04/05	02/04/05	03/16/05	03/03/05	10/18/05	10/19/05	10/19/05	10/19/05	10/19/05
2,4-Dimethylphenol[a]	29	29	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
2,4-Dinitrophenol			23,000 U	1,400 U	3,900 U	16,000 U	580 U	NA	NA	NA	1,200 U	NA	3,700 U	1,300 U	NA	440 U	NA	NA
2,4-Dinitrotoluene			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
2,6-Dinitrotoluene			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
2-Chloronaphthalene			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
2-Chlorophenol			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
2-Methylnaphthalene	670	670	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	**1,200**	**2,000**	NA	**490**	NA	NA
2-Methylphenol[a]	63	63	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	**360**	NA	NA
2-Nitroaniline			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
2-Nitrophenol			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
3,3'-Dichlorobenzidine			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
3-Nitroaniline			14,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
4,6-Dinitro-2-methylphenol			23,000 U	1,400 U	3,900 U	16,000 U	580 U	NA	NA	NA	1,200 U	NA	3,700 U	1,300 U	NA	440 U	NA	NA
4-Bromophenyl-phenylether			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
4-Chloro-3-methylphenol			4,500 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
4-Chloroaniline			6,800 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
4-Chlorophenyl-phenylether			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
4-Methylphenol[a]	670	670	2,300 U	**870**	390 U	1,600 U	58 U	NA	NA	NA	**160**	NA	370 U	**400**	NA	**17,000**	NA	NA
4-Nitroaniline			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
4-Nitrophenol			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
Benzoic acid[a]	650	650	23,000 U	1,400 U	3,900 U	16,000 U	580 U	NA	NA	NA	1,200 U	NA	3,700 U	1,300 U	NA	440 U	NA	NA
Benzyl alcohol[a]	57	73	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	**150**	NA	NA
bis(2-Chloroethoxy) methane			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Bis-(2-chloroethyl) ether			4,500 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Carbazole			**81,000**	140 U	**4,200**	**9,100**	**310**	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Dibenzofuran	540	540	**16,000**	140 U	**660**	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	**160**	NA	**57**	NA	NA
Hexachlorobenzene	22	70	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Hexachlorobutadiene	11	120	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Hexachlorocyclopentadiene			11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
Hexachloroethane			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Isophorone			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
Nitrobenzene			2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	44 U	NA	NA
n-Nitroso-di-n-propylamine			4,500 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 U	NA	NA
N-Nitrosodiphenylamine	28	40	2,300 U	140 U	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	130 U	NA	100 Y	NA	NA
Pentachlorophenol[a]	360	690	11,000 U	710 U	2,000 U	8,000 U	290 U	NA	NA	NA	620 U	NA	1,900 U	650 U	NA	220 UJ	NA	NA
Phenol[a]	420	1,200	2,300 U	**260**	390 U	1,600 U	58 U	NA	NA	NA	120 U	NA	370 U	**220**	NA	**1,900**	NA	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB77	CB78	CB79	CB80	CB81	S1	CB82	CB83	CB83	CB84	CB84	CB85	CB86	CB87	CB88	CB89
Lab Ref			IS72	IS72	IS72	IS72	IU18	IS72	IU18	IV03	RI13/RN40	IV03	RI57	IV03	IY80	JB06	JB06	JB06
Utility Type[c]			SD	SD	SD	CS	SD	SD	SD	SD	CB	SD	CB	CS	SD	SD	SD	SD
Outfall			Norfolk CSO/SD/P S#17 EOF	Norfolk CSO/SD/P S#17 EOF	Private SD	CS	Diagonal Ave S CSO/SD	Private SD	Norfolk CSO/SD/P S#17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Norfolk CSO/SD/P S#17 EOF	Norfolk CSO/SD/PS #17 EOF	Diagonal Ave S CSO/SD	Private SD	I-5 SD at Slip 4	I-5 SD at Slip 4	I-5 SD at Slip 4
Date	SQS/ LAET	CSL/ 2LAET	11/08/05	11/08/05	09/11/05	09/11/05	11/22/05	11/09/05	11/23/05	12/05/05	08/30/10	12/06/05	09/02/10	12/05/05	01/18/06	02/10/06	02/10/06	02/10/06
Total solids (%)			70.5	37.3	34.7	77.2	61.1	58.0	65.3	55.9	32.5	53.8	64.4	60.3	38.9	50.9	53.1	52.3
TOC (%)			11.1	17.1	6.4	2.7	11.6	3.1	6.2	8.3	11.1	11.3	23.7	3.4	12.4	6.5	4.4	4.1
Metals (mg/kg)																		
Arsenic	57	93	7 U	10 U	**30**	6 U	**30**	**11**	8 U	**20**	**8.2**	**17**	**19**	**30**	**30**	**20**	**15**	**15**
Copper	390	390	**78.6**	**103**	**207**	**85.2**	**686**	**69.9**	**44.4**	**145**	**299**	**139**	**81.8**	**81.2**	**90.7**	**77.4**	**171**	**170**
Lead	450	530	**23**	**124**	**114**	**29**	**473**	**73**	**61**	**5,830**	**805**	**295**	**23**	**114**	**95**	**69**	**151**	**156**
Mercury	0.41	0.59	0.07 U	**0.2**	**0.2**	0.05 U	**0.15**	**0.14**	0.06 U	**2.05**	**0.11**	**0.17**	**0.11**	**0.14**	**0.11**	**0.1**	**0.34**	**0.44**
Zinc	410	960	**565**	**820**	**758**	**268**	**1,550**	**172**	**121**	**432**	**687**	**378**	**132**	**415**	**471**	**448**	**692**	**728**
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**2,600**	**1,800**	**6,000**	**1,200**	**7,200**	**280**	**410**	**7,900**	**840**	**3,100**	**2,000**	**740**	**1,600**	**380**	**150**	**110**
TPH-oil	2,000[b]		**10,000**	**5,600**	**13,000**	**2,300**	**26,000**	**1,500**	**1,700**	**23,000**	**5,900**	**14,000**	**15,000**	**2,000**	**6,200**	**810**	**670**	**560**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	95 U	**1,100**	90 U	**66**	1,200 U	35 U	**250**	340 U	520 U	**3,900**	960 U	1,700 U	57 U	200 U	200 U	200 U
Acenaphthylene	1,300	1,300	95 U	**350**	90 U	42 U	1,200 U	35 U	160 U	**230** J	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Anthracene	960	960	95 U	**12,000**	**6,400**	**67** J	1,200 U	**21** J	**690**	**250** J	520 U	**2,900** J	**600** J	1,700 U	**56**	200 U	200 U	200 U
Fluorene	540	540	**220**	**2,600**	**1,300**	**340**	**720** J	35 U	**350**	**500**	520 U	**2,000** J	**590** J	1,700 U	57 U	200 U	200 U	200 U
Naphthalene	2,100	2,100	95 U	**180**	**160**	**89**	1,200 U	35 U	**180**	**6,100**	520 U	**3,100** J	960 U	1,700 U	**60**	200 U	200 U	200 U
Phenanthrene	1,500	1,500	**510**	**50,000**	**1,700**	**1,100**	**2,000**	**78**	**3,400**	**1,900**	**320** J	**11,000**	**3,800**	1,700 U	**180**	200 U	200 U	200 U
Total LPAH	5,200	5,200	**730**	**66,230**	**9,560**	**1,662** J	**2,720** J	**99** J	**4,870**	**8,980** J	**320** J	**22,900** J	**4,990** J	1,700 U	**296**	200 U	200 U	200 U
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	95 U	**56,000**	**730**	**160**	1,200 U	**81**	**1,700**	**610**	520 U	**5,100**	**1,000**	1,700 U	**130**	200 U	**110** J	**130** J
Benzo(a)pyrene	1,600	1,600	**100** J	**58,000**	**830**	**170**	1,200 U	**140**	**1,700**	**380**	520 U	**4,800**	**800** J	1,700 U	**200**	200 U	**120** J	**170** J
Benzo(b)fluoranthene	3,200	3,600	**220** J	**75,000**	**1,200**	**250** J	**800** J	**250**	**2,100**	**610**	**340** J	**4,600**	**730** J	1,700 U	**250**	200 U	**190** J	**310**
Benzo(g,h,i)perylene	670	720	**200**	**20,000**	**570**	**140**	**620** J	**87**	**640**	**370**	520 UJ	**2,800** J	**640** J	1,700 U	**230**	200 U	200 U	**200**
Benzo(k)fluoranthene	3,200	3,600	**220** J	**59,000**	**1,300**	**240** J	**620** J	**190**	**1,400**	**550**	**340** J	**4,000**	**730** J	1,700 U	**250**	200 U	**190** J	**210**
Chrysene	1,400	2,800	**290**	**68,000**	**1,800**	**400**	**1,200**	**160**	**1,900**	**880**	**420** J	**6,700**	**2,500**	1,700 U	**290**	**110** J	**170** J	**210**
Dibenz(a,h)anthracene	230	230	95 U	**8,400**	**150**	42 U	1,200 U	**35**	**260**	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	**200**
Fluoranthene	1,700	2,500	**290**	**130,000**	**1,700**	**360**	**1,700**	**190**	**6,100**	**2,300**	**630** J	**12,000**	**2,000**	1,700 U	**310**	**110** J	**240** J	**290**
Indeno(1,2,3-cd)pyrene	600	690	95 U	**25,000**	**410**	**62**	1,200 U	**61**	**690**	**240** J	520 U	**2,800** J	960 U	1,700 U	**96**	200 U	200 U	**200**
Pyrene	2,600	3,300	**690**	**86,000**	**5,300**	**1,000**	**1,700**	**290**	**2,700**	**2,000**	**670** J	**9,400**	**2,500**	1,700 U	**420**	**160** J	**200** J	**240**
Total HPAH	12,000	17,000	**2,010** J	**585,400**	**13,990**	**2,782** J	**6,640** J	**1,484**	**19,190**	**7,940** J	**2,400** J	**52,200** J	**10,900** J	1,700 U	**2,176**	**380** J	**1,220** J	**2,160** J
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**11,000**	**13,000**	**120,000**	**38,000**	**91,000**	**5,500**	**4,100** B	**24,000**	**21,000**	**45,000**	**6,300**	**19,000**	**12,000**	**2,900**	**430**	**520**
Butylbenzylphthalate	63	900	**450**	**580**	90 U	**1,800**	**5,000**	**140**	**920**	**3,000**	**420** J	**4,600**	960 U	1,700 U	**1,000**	**120** J	200 U	200 U
Diethylphthalate	200		95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Dimethylphthalate	71	160	95 U	**560**	90 U	**1,900**	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Di-n-butylphthalate	1,400	1,400	95 U	470 U	90 U	360 U	**1,300**	63 U	160 U	**1,600**	**940** J	3,900 U	**560** J	1,700 U	**48**	200 U	200 U	200 U
Di-n-octyl phthalate	6,200		**520**	**1,100**	**4,000**	**1,800**	1,200 U	35 U	**350**	**1,200**	520 U	3,900 U	960 U	1,700 U	**1,300**	**4,100**	200 U	200 U
PCBs (ug/kg dw)																		
Aroclor 1016			98 U	100 U	99 U	98 U	98 UJ	99 U	19 U	290 Y	47 U	59 U	20 U	320 U	20 U	20 U	20 U	20 U
Aroclor 1221			98 U	100 U	99 U	98 U	98 UJ	99 U	19 U	780 Y	47 U	59 U	20 U	320 U	20 U	20 U	20 U	20 U
Aroclor 1232			98 U	100 U	99 U	98 U	98 UJ	99 U	19 U	680 Y	47 U	59 U	20 U	320 U	20 U	20 U	20 U	20 U
Aroclor 1242			98 U	100 U	99 U	98 U	98 UJ	99 U	19 U	290 Y	47 U	59 U	20 U	320 U	20 U	20 U	20 U	20 U
Aroclor 1248			98 U	100 U	99 U	98 U	98 UJ	99 U	19 U	290 Y	47 U	120 Y	20 U	320 U	**200**	20 U	20 U	20 U
Aroclor 1254			98 U	100 U	**160**	98 U	**430** J	99 U	27 Y	**380**	**49**	**320**	20 U	**1,300**	**170**	**110**	**150**	**150**
Aroclor 1260			98 U	100 U	**140**	98 U	390 UJ	99 U	29 Y	220 Y	47 U	120 Y	20 U	320 U	**250**	**79**	**160**	**160**
Total PCBs	130	1,000	98 U	100 U	**300**	98 U	**430** J	99 U	29 Y	**380**	**49**	**320**	20 U	**1,300**	**620**	**189**	**310**	**310**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
1,2-Dichlorobenzene	35	50	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	**1,100**	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
1,3-Dichlorobenzene			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
1,4-Dichlorobenzene	110	110	95 U	120 U	**50** J	**38,000**	1,200 U	**1,200**	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
1-Methylnaphthalene											520 U		**650** J					
2,2'-Oxybis(1-chloropropane)			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	5 U	200 U	200 U	200 U
2,4,5-Trichlorophenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
2,4,6-Trichlorophenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
2,4-Dichlorophenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB77	CB78	CB79	CB80	CB81	S1	CB82	CB83	CB83	CB84	CB84	CB85	CB86	CB87	CB88	CB89
Lab Ref			IS72	IS72	IS72	IS72	IU18	IS72	IU18	IV03	RI13/RN40	IV03	RI57	IV03	IY80	JB06	JB06	JB06
Utility Type[c]			SD	SD	SD	CS	SD	SD	SD	SD	CB	SD	CB	CS	SD	SD	SD	SD
Outfall			Norfolk CSO/SD/P S#17 EOF	Norfolk CSO/SD/P S#17 EOF	Private SD	CS	Diagonal Ave S CSO/SD	Private SD	Norfolk CSO/SD/P S#17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Norfolk CSO/SD/P S#17 EOF	Norfolk CSO/SD/PS #17 EOF	Diagonal Ave S CSO/SD	Private SD	I-5 SD at Slip 4	I-5 SD at Slip 4	I-5 SD at Slip 4
Date	SQS/ LAET	CSL/ 2LAET	11/08/05	11/08/05	09/11/05	09/11/05	11/22/05	11/09/05	11/23/05	12/05/05	08/30/10	12/06/05	09/02/10	12/05/05	01/18/06	02/10/06	02/10/06	02/10/06
2,4-Dimethylphenol[a]	29	29	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
2,4-Dinitrophenol			950 U	1,200 U	900 U	420 U	12,000 U	350 U	1,600 U	3,400 U	5,200 U	39,000 U	9,600 U	17,000 U	570 U	2,000 U	2,000 U	2,000 U
2,4-Dinitrotoluene			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
2,6-Dinitrotoluene			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
2-Chloronaphthalene			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
2-Chlorophenol			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
2-Methylnaphthalene	670	670	**220**	**92** J	**230**	**710**	**1,000** J	35 U	**380**	**18,000**	520 U	**3,900**	**680** J	1,700 U	**960**	200 U	200 U	200 U
2-Methylphenol[a]	63	63	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
2-Nitroaniline			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
2-Nitrophenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	520 U	20,000 U	960 U	8,500 U	290 U	980 U	980 U	980 U
3,3'-Dichlorobenzidine			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
3-Nitroaniline			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	1,600 U	980 U	980 U	980 U
4,6-Dinitro-2-methylphenol			950 U	1,200 U	900 U	420 U	12,000 U	350 U	1,600 U	3,400 U	5,200 UJ	39,000 U	9,600 U	17,000 U	570 U	2,000 U	2,000 U	2,000 U
4-Bromophenyl-phenylether			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
4-Chloro-3-methylphenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
4-Chloroaniline			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
4-Chlorophenyl-phenylether			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
4-Methylphenol[a]	670	670	**1,200**	380 U	90 U	**1,600**	**8,100**	610 U	**180**	340 U	520 U	3,900 U	960 U	1,700 U	**1,900**	200 U	200 U	200 U
4-Nitroaniline			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
4-Nitrophenol			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
Benzoic acid[a]	650	650	950 U	1,200 U	900 U	**610** J	12,000 U	**69** J	1,600 U	**2,700** J	5,200 UJ	39,000 U	9,600 U	17,000 U	**3,500**	2,000 U	2,000 U	2,000 U
Benzyl alcohol[a]	57	73	24,000 Y	120 U	90 U	**890** J	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	**770**	200 U	200 U	200 U
bis(2-Chloroethoxy) methane			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Bis-(2-chloroethyl) ether			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Carbazole			95 U	**17,000**	**2,200**	**97**	1,200 U	**19** J	**330**	**190** J	520 U	3,900 U	960 U	1,700 U	**34** J	200 U	200 U	200 U
Dibenzofuran	540	540	95 U	**1,700**	**410**	**86**	1,200 U	35 U	**130** J	340 U	520 U	**3,900**	960 U	1,700 U	57 U	200 U	200 U	200 U
Hexachlorobenzene	22	70	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Hexachlorobutadiene	11	120	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Hexachlorocyclopentadiene			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
Hexachloroethane			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Isophorone			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Nitrobenzene			95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
n-Nitroso-di-n-propylamine			480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
N-Nitrosodiphenylamine	28	40	95 U	120 U	90 U	42 U	1,200 U	35 U	160 U	340 U	520 U	3,900 U	960 U	1,700 U	57 U	200 U	200 U	200 U
Pentachlorophenol[a]	360	690	480 U	590 U	450 U	210 U	6,000 U	180 U	790 U	1,700 U	2,600 U	20,000 U	4,800 U	8,500 U	290 U	980 U	980 U	980 U
Phenol[a]	420	1,200	**280**	**120**	90 U	**280**	1,200 U	**78**	160 U	**350**	520 U	3,900 U	960 U	1,700 U	**280**	200 U	200 U	200 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB90	CB91	CB92A	CB92A	CB93	CB94	CB95	CH-N	CH-E	CB92B	CB96	CB97	CB98	CB100	CB100	CB101
Lab Ref			JI31	JK52	JO98	JO98	KA77	KA77	KA77	KF45	KF45	LM69	KN66	KN66	KN66	KO62	RR61/RU50	KP15
Utility Type[c]			CS	SD	SD	SD	CS	CS	CS	CS	CS	SD	CS	CS	CS	SD	CB	SD
Outfall			Private SD	Highland Park Wy SW SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Private SD	Private SD	Private SD	Private SD	Private SD	Diagonal Ave S CSO/SD	Private SD	Private SD	Private SD	S Grattan St SD	S Grattan St SD	Private SD
Date	SQS/ LAET	CSL/ 2LAET	05/05/06	05/31/06	07/10/06	07/10/06	10/12/06	10/12/06	10/12/06	11/14/06	11/14/06	08/23/07	02/06/07	02/06/07	02/06/07	02/15/07	10/15/10	02/21/07
Total solids (%)			67.0	65.3	47.8	52.1	51.5	60.6	22.0	74.0	67.4	69.2	64.4	NA	73.3	43.7	30.4	72.2
TOC (%)			2.0	6.3	6.3 J	3.5	4.2	7.2	13.2	2.4 J	3.7 J	6.17	4.83	NA	1.78	16.3	16.5	6.53
Metals (mg/kg)																		
Arsenic	57	93	**40**	40 U	20 U	20 U	**30**	**60**	**150**	**20**	40 U	20 U	**20**	**13**	**7**	**10**	**10.8**	30
Copper	390	390	**1,820**	**697**	**111**	**132**	**991**	**1,150**	**734**	**696**	**1,040**	**129**	**557**	**139**	**169**	**177**	**446**	**234**
Lead	450	530	**410**	**70**	**42**	**59**	**178**	**276**	**352**	**106**	**150**	**39**	**185**	**1,760**	**47**	**303**	**258**	10
Mercury	0.41	0.59	**0.07**	0.06 U	**0.07**	**0.07**	**0.65**	**0.31**	**0.2**	**0.15**	**0.58**	**0.07**	**0.33**	**9.4**	**0.17**	**0.12**	**0.23**	0.05
Zinc	410	960	**2,500**	**1,720**	**547**	**646**	**1,830**	**3,290**	**3,030**	**888**	**1,380**	**578**	**939**	**771**	**314**	**1,200**	**1,230**	**167**
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**280**	**8,100** J	**1,600**	**1,700**	**450**	**5,400**	**5,700**	**950**	**650**	**3,300**	**1,600**	NA	**1,100**	**7,400**	**4,200**	**120**
TPH-oil	2,000[b]		**650**	**6,900** J	**7,000**	**7,300**	**2,300**	**7,500**	**12,000**	**2,100**	**1,600**	**20,000**	**5,300**	NA	**1,200**	**25,000**	**26,000**	**520**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**530**	**74,000**	180 U	140 U	**180**	390 U	520 U	**58** J	**200**	500 U	120 U	**400**	29 U	**1,600**	3,200 U	60
Acenaphthylene	1,300	1,300	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	**320**	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Anthracene	960	960	**1,500**	**95,000**	180 U	140 U	**300**	390 U	520 U	**100** J	**110**	500 U	**280**	240 U	29 U	**4,800**	3,200 U	**71**
Fluorene	540	540	**460**	**99,000**	**180**	**160**	**220**	390 U	520 U	110 U	**130**	500 U	120 U	**430**	29 U	**2,400**	3,200 U	**53**
Naphthalene	2,100	2,100	**320**	**15,000**	180 U	140 U	**200**	390 U	520 U	**140**	**220**	500 U	120 U	**1,200**	29 U	**4,200**	3,200 U	**210**
Phenanthrene	1,500	1,500	**7,000**	**970,000**	**880** J	**480**	**2,000**	**1,600**	**1,900**	**460**	**860**	**1,100**	**1,300**	**1,500**	**150**	**20,000**	3,200 U	**270**
Total LPAH	5,200	5,200	**9,810**	**1,253,000**	**1,060** J	**640**	**2,900**	**1,600**	**1,900**	**1,078** J	**1,520**	**1,100**	**1,580**	**3,530**	**150**	**33,000**	3,200 U	**604**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**6,300**	**130,000**	180 U	140 U	**990**	**520**	**820**	**580**	**500**	500 U	**800**	**880**	**100**	**8,000**	**3,200**	**170**
Benzo(a)pyrene	1,600	1,600	**5,100**	**45,000**	180 U	140 U	**1,000**	**1,000**	**1,100**	**960**	**640**	500 U	**740**	**460**	**150**	**6,600**	**2,600** J	**150**
Benzo(b)fluoranthene	3,200	3,600	**4,200**	**90,000**	180 U	140 U	**1,200**	**1,400**	**1,800**	**1,400**	**930**	500 U	**850**	**1,200**	**150**	**7,600**		**130**
Benzo(g,h,i)perylene	670	720	**2,100**	**25,000**	180 U	140 U	**520**	**1,100**	**710**	**380**	**230**	500 U	**300**	**300**	**100**	**3,600**	**1,600** J	**100**
Benzo(k)fluoranthene	3,200	3,600	**4,800**	**52,000**	180 U	140 U	**1,100**	**1,000**	**1,300**	**740**	**480**	500 U	**740**	**870**	**230**	**4,500**	**4,300** J	**66**
Chrysene	1,400	2,800	**7,000**	**160,000**	**340**	**250**	**1,600**	**1,400**	**1,900**	**860**	**780**	500 U	**1,100**	**1,500**	**240**	**8,100**	**3,800**	**250**
Dibenz(a,h)anthracene	230	230	**600**	15,000 U	180 U	140 U	**180**	390 U	520 U	**93**	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Fluoranthene	1,700	2,500	**16,000**	**890,000**	**520**	**210**	**3,100**	**2,000**	**3,100**	**1,100**	**1,400**	500 U	**3,000**	**2,600**	**560**	**22,000**	**5,100**	**260**
Indeno(1,2,3-cd)pyrene	600	690	**2,200**	**20,000**	180 U	140 U	**520**	**950**	**670**	**410**	**220**	500 U	**280**	**280**	**92**	**3,400**	3,200 U	**54**
Pyrene	2,600	3,300	**10,000**	**650,000**	**460**	**280**	**2,200**	**1,600**	**2,100**	**970**	**1,000**	500 U	**2,400**	**2,100**	**330**	**13,000**	**4,200**	**210**
Total HPAH	12,000	17,000	**58,300**	**2,062,000**	**1,320**	**740**	**12,410**	**10,970**	**13,500**	**7,493**	**6,180**	500 U	**10,210**	**10,190**	**1,952**	**76,800**	**24,800** J	**1,390**
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**5,700**	15,000 U	**8,900**	**9,400**	**5,900**	**3,000**	**65,000**	**4,100**	**4,400**	**7,900**	**15,000**	**1,400** R	**1,100**	**13,000**	**36,000**	**1,100**
Butylbenzylphthalate	63	900	**1,800**	15,000 U	**280**	**150**	**800**	**1,200**	**1,700**	**700**	**5,200**	**18,000**	**460**	**140,000** R	**220**	**64,000**	**9,500**	**60**
Diethylphthalate	200		310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	**45,000**	3,200 U	60
Dimethylphthalate	71	160	310 U	15,000 U	180 U	140 U	120 U	**610**	520 U	**650**	**220**	500 U	**240**	240 U	**33**	1,200 U	3,200 U	60
Di-n-butylphthalate	1,400	1,400	**500**	15,000 U	610 UJ	140 U	350 U	390 U	570 U	**410**	**780**	500 U	**160**	**2,600** R	29 U	1,200 U	3,200 U	**72**
Di-n-octyl phthalate	6,200		**500**	15,000 U	**360**	**520**	**300**	390 U	**4,300**	**240**	**380**	500 U	**1,000**	**1,500** R	**56**	**3,900**	3,200 U	**31**
PCBs (ug/kg dw)																1,700		
Aroclor 1016			600 U	19 U	40 U	39 U	99 U	3,900 U	100 U	550 U	580 U	20 U	180 U	1,500 U	190 U	20 U	84 U	19
Aroclor 1221			600 U	19 U	40 U	39 U	99 U	3,900 U	100 U	550 U	580 U	20 U	180 U	1,500 U	190 U	20 U	84 U	19
Aroclor 1232			600 U	19 U	40 U	39 U	99 U	3,900 U	100 U	550 U	580 U	20 U	180 U	1,500 U	190 U	20 U	84 U	19
Aroclor 1242			600 U	19 U	120 Y	120 Y	99 U	3,900 U	100 U	550 U	580 U	39 Y	180 U	1,500 U	190 U	20 U	84 U	19
Aroclor 1248			600 U	19 U	40 U	39 U	99 U	3,900 U	100 U	550 U	580 U	20 U	180 U	1,500 U	190 U	20 U	84 U	19
Aroclor 1254			**2,500**	19 U	**76**	**84**	**510**	3,900 U	**270**	**760**	**660** J	39 Y	**630**	**3,800**	**970**	59 Y	84 U	**37**
Aroclor 1260			600 U	19 U	**130**	**130**	**260**	7,900 Y	**170**	**900**	**580** J	**140**	**410**	**3,200**	**690**	39 Y	**400** J	19
Total PCBs	130	1,000	**2,500**	19 U	**206**	**214**	**770**	7,900 Y	**440**	**1,660**	**1,240** J	**140**	**1,040**	**7,000**	**1,660**	59 Y	**400** J	**37**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
1,2-Dichlorobenzene	35	50	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
1,3-Dichlorobenzene			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
1,4-Dichlorobenzene	110	110	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
1-Methylnaphthalene																	3,200 U	
2,2'-Oxybis(1-chloropropane)			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
2,4,5-Trichlorophenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
2,4,6-Trichlorophenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
2,4-Dichlorophenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB90	CB91	CB92A	CB92A	CB93	CB94	CB95	CH-N	CH-E	CB92B	CB96	CB97	CB98	CB100	CB100	CB101
Lab Ref			JI31	JK52	JO98	JO98	KA77	KA77	KA77	KF45	KF45	LM69	KN66	KN66	KN66	KO62	RR61/RU50	KP15
Utility Type[c]			CS	SD	SD	SD	CS	CS	CS	CS	CS	SD	CS	CS	CS	SD	CB	SD
Outfall			Private SD	Highland Park Wy SW SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Private SD	Private SD	Private SD	Private SD	Private SD	Diagonal Ave S CSO/SD	Private SD	Private SD	Private SD	S Grattan St SD	S Grattan St SD	Private SD
Date	SQS/ LAET	CSL/ 2LAET	05/05/06	05/31/06	07/10/06	07/10/06	10/12/06	10/12/06	10/12/06	11/14/06	11/14/06	08/23/07	02/06/07	02/06/07	02/06/07	02/15/07	10/15/10	02/21/07
2,4-Dimethylphenol[a]	29	29	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	**9,200**	29 U	1,200 U	3,200 U	60
2,4-Dinitrophenol			3,100 U	150,000 U	1,800 U	1,400 U	1,200 U	3,900 U	5,200 U	1,100 U	1,100 U	5,000 U	1,200 U	2,400 U	290 U	12,000 U	32,000 U	600
2,4-Dinitrotoluene			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
2,6-Dinitrotoluene			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
2-Chloronaphthalene			310 U	15,000 U	180 U	140 U	**120**	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
2-Chlorophenol			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
2-Methylnaphthalene	670	670	**310**	**16,000**	**200**	**210**	**160**	**1,700**	**790**	**100** J	**900**	**660**	**140**	**34,000**	**37**	**9,500**	3,200 U	**330**
2-Methylphenol[a]	63	63	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	**750**	29 U	1,200 U	3,200 U	60
2-Nitroaniline			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
2-Nitrophenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	3,200 U	300
3,3'-Dichlorobenzidine			1,600 R	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
3-Nitroaniline			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
4,6-Dinitro-2-methylphenol			3,100 U	150,000 U	1,800 U	1,400 U	1,200 U	3,900 U	5,200 U	1,100 U	1,100 U	5,000 U	1,200 U	2,400 U	290 U	12,000 U	32,000 U	600
4-Bromophenyl-phenylether			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
4-Chloro-3-methylphenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
4-Chloroaniline			1,600 R	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
4-Chlorophenyl-phenylether			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
4-Methylphenol[a]	670	670	310 U	15,000 U	**1,200**	**1,300**	**1,700**	390 U	**2,200**	**120**	**120**	500 U	120 U	**1,200**	**150**	1,200 U	**1,900** J	41
4-Nitroaniline			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
4-Nitrophenol			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
Benzoic acid[a]	650	650	3,100 U	150,000 U	1,800 U	1,400 U	1,200 U	**4,400**	5,200 U	1,100 U	1,100 U	5,000 UJ	1,200 U	2,400 U	290 U	12,000 U	32,000 U	600
Benzyl alcohol[a]	57	73	**440**	15,000 U	180 U	**230** **M**	120 U	390 U	520 U	**120**	**500**	500 U	120 U	1,200 U	29 U	1,200 U	3,200 U	**160**
bis(2-Chloroethoxy) methane			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Bis-(2-chloroethyl) ether			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Carbazole			**780**	**27,000**	180 U	140 U	**280**	390 U	520 U	**57** J	**120**	500 U	**360**	240 U	29 U	**2,400**	3,200 U	**49**
Dibenzofuran	540	540	310 U	**53,000**	180 U	140 U	**130**	390 U	520 U	110 U	**120**	500 U	120 U	240 U	29 U	1,200 U	3,200 U	**64**
Hexachlorobenzene	22	70	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Hexachlorobutadiene	11	120	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Hexachlorocyclopentadiene			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
Hexachloroethane			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Isophorone			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
Nitrobenzene			310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	3,200 U	60
n-Nitroso-di-n-propylamine			1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	3,200 U	300
N-Nitrosodiphenylamine	28	40	310 U	15,000 U	180 U	140 U	120 U	390 U	520 U	110 U	110 U	500 U	120 U	240 U	29 U	1,200 U	16,000 U	60
Pentachlorophenol[a]	360	690	1,600 U	74,000 U	920 U	730 U	590 U	2,000 U	2,600 U	550 U	570 U	2,500 U	620 U	1,200 U	140 U	6,200 U	16,000 U	300
Phenol[a]	420	1,200	**350** **B**	15,000 U	**3,200**	**3,100**	**870**	**1,500**	**1,500**	240 U	380 U	500 U	120 U	**360**	**41**	1,200 U	3,200 U	**100**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB102	CB103	CB104	CB105	CB106	CB106	CB107S	CB107F	CB108	CB108D	CB110	CB111	CB112	CB112	CB113	TUL-CB1
Lab Ref			KP15	KP15	KP15	LL00	LU21	QY29	LU21	LU21	LU21	LU21	MA85	MA85	MA85	RP65	MA85	ME86
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	CB	CS	SD
Outfall			Private SD	Private SD	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	2nd Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	02/21/07	02/21/07	02/21/07	08/13/07	10/18/07	05/27/10	10/18/07	10/18/07	10/18/07	10/18/07	12/05/07	12/05/07	12/05/07	10/04/10	12/05/07	01/09/08
Total solids (%)			84.1	79.9	88.7	42.8	37.4	34.6	34.1	68.1	85.3	84.0	75.0	83.1	65.8	52.0	100.0	67.3
TOC (%)			0.973	1.36	0.977	6	12	14.2 J	5	1	2	3.17	4	2	4.57	12.2	42.3	NA
Metals (mg/kg)																		
Arsenic	57	93 U	30 U	20	30	**13**	10 U	10 U	**5.1**	7 U	6 U	**6**	6 UJ	10 UJ	8 UJ	8 U	6 UJ	NA
Copper	390	390	**1,730**	**860**	**987**	**358**	**107**	**129**	**177**	**360**	**146**	**123**	**46** J	**241** J	**303** J	**229**	**285** J	NA
Lead	450	530 U	**120**	**61**	**70**	**341**	**29**	**28**	**106**	**15**	**25** J	**83** J	**20** J	**97** J	**117** J	**100**	40 J	NA
Mercury	0.41	0.59 U	**0.07**	**0.04**	0.04 U	**0.24**	0.08 U	**0.06**	**0.20**	0.05 U	0.05 U	0.05 U	0.05 UJ	0.04 UJ	0.06 UJ	**0.13**	**0.05** UJ	NA
Zinc	410	960	**1,360**	**745**	**794**	**787**	**790**	**981**	**628**	**108**	**111**	**136**	**200** J	**190** J	**465** J	**575**	**392** J	NA
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**150**	**330**	**120**	**12,000**	**1,900**	**710**	**2,500**	**1,400**	**1,600**	**1,500**	**480**	**46,000**	**2,000**	**180**	**67,000**	NA
TPH-oil	2,000[b]		**410**	**2,100**	**530**	**42,000**	**11,000**	**8,500**	**4,600**	**1,600**	**4,600**	**4,000**	**3,300**	**250,000**	**5,800**	**2,100**	**390,000**	NA
LPAH (ug/kg DW)																		
Acenaphthene	500	500 U	**320**	**120**	**160** J	1,200 U	**430**	240 U	330 U	130 U	190 U	200 U	99 U	98 U	**420**	390 U	1,700 U	NA
Acenaphthylene	1,300	1,300 U	**65**	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Anthracene	960	960	**350**	**210**	**260**	1,200 U	**450**	240 U	**370**	130 U	190 U	200 U	99 U	98 U	**1,300**	**380** J	1,700 U	NA
Fluorene	540	540 J	**280**	**140**	**160** J	1,200 U	**350**	240 U	330 U	130 U	**260**	**380**	99 U	98 U	**690**	**300** J	1,700 U	NA
Naphthalene	2,100	2,100	**300**	**730**	**480**	**1,700**	280 U	240 U	330 U	130 U	190 U	**250**	99 U	98 U	**180**	390 U	1,700 U	NA
Phenanthrene	1,500	1,500	**1,700**	**1,200**	**1,300**	**1,500**	**2,800**	**390**	**3,400**	**550**	**390**	**520**	**100**	**300**	**4,700**	**3,400**	**1,900**	NA
Total LPAH	5,200	5,200 J	**3,015**	**2,400**	**2,360** J	**3,200**	**4,030**	**390**	**3,770**	**550**	**650**	**1,150**	**100**	**300**	**7,290**	**4,080** J	**1,900**	NA
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**1,400**	**650**	**970**	1,200 U	**1,800**	**200** J	**1,600**	**360**	190 U	200 U	99 U	**160**	**2,400**	**1,700**	1,700 U	NA
Benzo(a)pyrene	1,600	1,600	**1,300**	**480**	**760**	1,200 U	**3,000**	**200** J	**3,100**	**530**	190 U	200 U	99 U	**160**	**2,400**	**1,600**	1,700 U	NA
Benzo(b)fluoranthene	3,200	3,600	**1,800**	**530**	**860**	1,200 U	**3,100**	**270**	**4,100**	**540**	190 U	200 U	99 U	**210**	**2,500**	**2,700**	1,700 U	NA
Benzo(g,h,i)perylene	670	720	**560**	**240**	**440**	1,200 U	**540**	**320**	**880**	**160**	190 U	200 U	99 U	98 U	**1,200**	**740**	1,700 U	NA
Benzo(k)fluoranthene	3,200	3,600	**910**	**520**	**850**	1,200 U	**3,300**	**270**	**3,000**	**720**	190 U	200 U	99 U	**180**	**3,300**	**2,700**	1,700 U	NA
Chrysene	1,400	2,800	**1,600**	**760**	**1,000**	1,200 U	**3,600**	**500**	**4,100**	**660**	190 U	200 U	**110**	**240**	**3,200**	**3,600**	1,700 U	NA
Dibenz(a,h)anthracene	230	230 U	**180**	**58** J	**110** J	1,200 U	280 U	240 U	**360**	130 U	190 U	200 U	99 U	98 U	**250**	390 U	1,700 U	NA
Fluoranthene	1,700	2,500	**3,100**	**1,800**	**2,300**	**1,300**	**4,800**	**580**	**6,600**	**1,200**	190 U	200 U	**120**	**480**	**5,500**	**6,400**	1,700 U	NA
Indeno(1,2,3-cd)pyrene	600	690 J	**650**	**230**	**430**	1,200 U	**780**	**150** J	**1,300**	**240**	190 U	200 U	99 U	98 U	**1,100**	**670**	1,700 U	NA
Pyrene	2,600	3,300	**2,000**	**1,300**	**2,000**	**1,400**	**4,600**	**680** J	**5,100**	**960**	190 U	**200**	**180**	**560**	**9,900**	**4,700**	2,700 Y	NA
Total HPAH	12,000	17,000 J	**13,500**	**6,568** J	**9,720** J	**2,700**	**25,520**	**3,170** J	**30,140**	**5,370**	190 U	**200**	**410**	**1,990**	**31,750**	**24,810**	2,700 Y	NA
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**3,400**	**3,600**	**3,300**	**68,000**	**67,000** B	**64,000**	**17,000** B	**6,000** B	**4,200** J	**41,000** J	**6,700**	**1,900**	**64,000**	**12,000** B	**440,000**	NA
Butylbenzylphthalate	63	900	**510**	**500**	**460**	**16,000**	**17,000**	**150,000**	330 U	**150**	190 U	200 U	**150**	98 U	**430**	**260** J	1,700 U	NA
Diethylphthalate	200	U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Dimethylphthalate	71	160 U	**93**	**73** J	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Di-n-butylphthalate	1,400	1,400	**1,200**	**1,100**	**680**	1,200 U	**2,000**	**3,200**	350 Y	130 U	190 U	200 U	99 U	98 U	**230**	**530**	1,700 U	NA
Di-n-octyl phthalate	6,200	J	**340**	**220**	**220**	**2,800**	**5,800**	**7,700**	**670**	**300**	190 U	**200**	**280**	98 U	**520**	390 U	**4,900** NJ	NA
PCBs (ug/kg dw)																		
Aroclor 1016		U	19 U	19 U	20 U	200 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	39 U	20 U	810 U	580
Aroclor 1221		U	19 U	19 U	20 U	200 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	39 U	20 U	810 U	580
Aroclor 1232		U	19 U	19 U	20 U	200 U	20 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U	39 U	20 U	810 U	580
Aroclor 1242		U	19 U	19 U	20 U	200 U	30 Y	40 U	20 U	20 U	20 U	20 U	20 U	20 U	39 U	20 U	810 U	580
Aroclor 1248		U	19 U	77 Y	58 Y	200 U	20 U	40 U	40 Y	29 Y	20 U	20 U	20 U	20 U	58 Y	78 Y	810 U	580
Aroclor 1254			**55**	**350**	**810**	**210**	**35**	**49**	40 Y	29 Y	20 U	20 U	20 U	**47**	**130**	**150**	810 U	**10,000**
Aroclor 1260		U	**21** J	**71**	120 Y	200 U	40 Y	40 U	200 Y	39 Y	**20** J	**50** J	**20**	20 U	**120**	**68**	810 U	**7,100**
Total PCBs	130	1,000	**76** J	**421**	**810**	**210**	**35**	**49**	200 Y	39 Y	**20** J	**50** J	**20**	**47**	**250**	**218**	810 U	**17,100**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
1,2-Dichlorobenzene	35	50 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
1,3-Dichlorobenzene		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
1,4-Dichlorobenzene	110	110 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
1-Methylnaphthalene								240 U								390 U		
2,2'-Oxybis(1-chloropropane)		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
2,4,5-Trichlorophenol		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
2,4,6-Trichlorophenol		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
2,4-Dichlorophenol		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB102	CB103	CB104	CB105	CB106	CB106	CB107S	CB107F	CB108	CB108D	CB110	CB111	CB112	CB112	CB113	TUL-CB1
Lab Ref			KP15	KP15	KP15	LL00	LU21	QY29	LU21	LU21	LU21	LU21	MA85	MA85	MA85	RP65	MA85	ME86
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	CB	CS	SD
Outfall			Private SD	Private SD	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	2nd Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	02/21/07	02/21/07	02/21/07	08/13/07	10/18/07	05/27/10	10/18/07	10/18/07	10/18/07	10/18/07	12/05/07	12/05/07	12/05/07	10/04/10	12/05/07	01/09/08
2,4-Dimethylphenol[a]	29	29 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
2,4-Dinitrophenol		U	590 U	940 U	2,000 U	12,000 U	2,800 U	2,400 U	3,300 U	1,300 U	1,900 U	2,000 U	990 U	980 U	990 U	3,900 UJ	17,000 U	NA
2,4-Dinitrotoluene		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
2,6-Dinitrotoluene		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
2-Chloronaphthalene		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
2-Chlorophenol		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
2-Methylnaphthalene	670	670	**200**	**290**	**210**	**6,800**	**290**	240 U	330 U	130 U	**650**	**1,000**	99 U	98 U	**110**	390 U	1,700 U	NA
2-Methylphenol[a]	63	63 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
2-Nitroaniline		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
2-Nitrophenol		U	300 U	470 U	990 U	5,800 U	1,400 U	240 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	390 U	8,400 U	NA
3,3'-Dichlorobenzidine		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
3-Nitroaniline		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
4,6-Dinitro-2-methylphenol		U	590 U	940 U	2,000 U	12,000 U	2,800 U	2,400 U	3,300 U	1,300 U	1,900 U	2,000 U	990 U	980 U	990 U	3,900 U	17,000 U	NA
4-Bromophenyl-phenylether		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
4-Chloro-3-methylphenol		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
4-Chloroaniline		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
4-Chlorophenyl-phenylether		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
4-Methylphenol[a]	670	670 J	59 U	**110**	**200** U	1,200 U	**9,900**	6,300	330 U	**670**	190 U	200 U	99 U	98 U	**390**	390 U	1,700 U	NA
4-Nitroaniline		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
4-Nitrophenol		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
Benzoic acid[a]	650	650 U	590 U	940 U	2,000 U	12,000 U	**6,700**	**33,000**	3,300 U	1,300 U	1,900 U	2,000 U	990 U	980 U	990 U	3,900 U	17,000 U	NA
Benzyl alcohol[a]	57	73	**580**	**1,600**	**580**	1,200 U	280 U	**520**	**540**	**460**	190 U	200 U	99 U	**210**	**1,800**	390 U	1,700 U	NA
bis(2-Chloroethoxy) methane		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Bis-(2-chloroethyl) ether		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Carbazole		J	**240**	**140**	**180** J	1,200 U	300	240 U	580	130 U	190 U	200 U	99 U	98 U	**1,200**	**430**	1,700 U	NA
Dibenzofuran	540	540	**150**	**97**	**200** U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	**300**	390 U	1,700 U	NA
Hexachlorobenzene	22	70 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Hexachlorobutadiene	11	120 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Hexachlorocyclopentadiene		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 UJ	8,400 U	NA
Hexachloroethane		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Isophorone		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
Nitrobenzene		U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 U	130 U	190 U	200 U	99 U	98 U	99 U	390 U	1,700 U	NA
n-Nitroso-di-n-propylamine		U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	390 U	8,400 U	NA
N-Nitrosodiphenylamine	28	40 U	59 U	94 U	200 U	1,200 U	280 U	240 U	330 Y	130 U	190 U	200 U	99 U	98 U	99 U	2,000 U	1,700 U	NA
Pentachlorophenol[a]	360	690 U	300 U	470 U	990 U	5,800 U	1,400 U	1,200 U	1,600 U	670 U	950 U	990 U	500 U	490 U	490 U	2,000 U	8,400 U	NA
Phenol[a]	420	1,200	**280**	**640**	**320**	1,200 U	**820**	**1,400**	**690**	**160**	190 U	200 U	99 U	98 U	**200**	**280** J	1,700 U	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			TUL-CB2	TUL-CB3	TUL-CB4	CB114	CB116	CB116
Lab Ref			ME86	ME86	ME86	MP02	MU58	QZ56
Utility Type[c]			SD	SD	SD	SD	SD	CB
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Hamm Creek	2nd Ave S SD	2nd Ave S SD
Date	SQS/ LAET	CSL/ 2LAET	01/09/08	01/09/08	01/09/08	03/25/08	05/01/08	06/07/10
Total solids (%)			46.7	61.0	43.0	53.6	48.4	34.7
TOC (%)			NA	NA	NA	0.36	7.41	10.7
Metals (mg/kg)								
Arsenic	57	93	NA	NA	NA	**20.5**	**30**	**50**
Copper	390	390	NA	NA	NA	**44**	**2,110**	**806**
Lead	450	530	NA	NA	NA	**30**	**1,180**	**1,540**
Mercury	0.41	0.59	NA	NA	NA	0.08 U	**10.50**	**48**
Zinc	410	960	NA	NA	NA	**504**	**2,690**	**2,950**
Total petroleum hydrocarbons (mg/kg)								
TPH-diesel	2,000[b]		NA	NA	NA	**13**	**4,200**	**2,600**
TPH-oil	2,000[b]		NA	NA	NA	**72**	**16,000**	**14,000**
LPAH (ug/kg DW)								
Acenaphthene	500	500	NA	NA	NA	20 U	390 U	850 U
Acenaphthylene	1,300	1,300	NA	NA	NA	20 U	390 U	850 U
Anthracene	960	960	NA	NA	NA	20 U	390 U	**730** J
Fluorene	540	540	NA	NA	NA	20 U	390 U	850 U
Naphthalene	2,100	2,100	NA	NA	NA	20 U	390 U	850 U
Phenanthrene	1,500	1,500	NA	NA	NA	20 U	**1,000**	**1,300**
Total LPAH	5,200	5,200	NA	NA	NA	20 U	**1,000**	**2,030** J
HPAH (ug/kg DW)								
Benzo(a)anthracene	1,300	1,600	NA	NA	NA	20 U	390 U	**470** J
Benzo(a)pyrene	1,600	1,600	NA	NA	NA	20 U	**390**	**540** J
Benzo(b)fluoranthene	3,200	3,600	NA	NA	NA	20 U	390 U	**500** J
Benzo(g,h,i)perylene	670	720	NA	NA	NA	20 U	390 U	**580** J
Benzo(k)fluoranthene	3,200	3,600	NA	NA	NA	20 U	**540**	**500** J
Chrysene	1,400	2,800	NA	NA	NA	20 U	**1,100**	**1,400**
Dibenz(a,h)anthracene	230	230	NA	NA	NA	20 U	390 U	850 U
Fluoranthene	1,700	2,500	NA	NA	NA	20 U	**1,200**	**1,200**
Indeno(1,2,3-cd)pyrene	600	690	NA	NA	NA	20 U	390 U	850 U
Pyrene	2,600	3,300	NA	NA	NA	20 U	1,100 U	**1,100**
Total HPAH	12,000	17,000	NA	NA	NA	20 U	**3,230**	**6,290** J
Phthalates (ug/kg dw)								
Bis(2-ethylhexyl)phthalate	1,300	1,900	NA	NA	NA	**200**	**29,000**	**39,000** B
Butylbenzylphthalate	63	900	NA	NA	NA	**91**	**480**	**11,000**
Diethylphthalate	200		NA	NA	NA	20 U	390 U	850 U
Dimethylphthalate	71	160	NA	NA	NA	20 U	**550**	850 U
Di-n-butylphthalate	1,400	1,400	NA	NA	NA	20 U	**450**	**1,400**
Di-n-octyl phthalate	6,200		NA	NA	NA	20 U	**1,000**	**2,100**
PCBs (ug/kg dw)								
Aroclor 1016		U	110 U	24,000 U	460 U	20 U	99 U	20 U
Aroclor 1221		U	110 U	24,000 U	460 U	20 U	99 U	20 U
Aroclor 1232		U	110 U	24,000 U	460 U	20 U	99 U	20 U
Aroclor 1242		U	110 U	24,000 U	460 U	20 U	99 U	**72**
Aroclor 1248		U	110 U	24,000 U	460 U	20 U	99 U	20 U
Aroclor 1254			**4,800**	**110,000**	**9,500**	20 U	99 U	**340**
Aroclor 1260			**3,600**	**79,000**	**8,300**	20 U	99 U	**490**
Total PCBs	130	1,000	**8,400**	**189,000**	**17,800**	20 U	99 U	**902**
Other organic compounds (ug/kg dw)								
1,2,4-Trichlorobenzene	31	51	NA	NA	NA	20 U	390 U	850 U
1,2-Dichlorobenzene	35	50	NA	NA	NA	20 U	390 U	850 U
1,3-Dichlorobenzene			NA	NA	NA	20 U	390 U	850 U
1,4-Dichlorobenzene	110	110	NA	NA	NA	20 U	390 U	850 U
1-Methylnaphthalene								**1,200**
2,2'-Oxybis(1-chloropropane)			NA	NA	NA	20 U	390 U	850 U
2,4,5-Trichlorophenol			NA	NA	NA	98 U	2,000 U	4,300 U
2,4,6-Trichlorophenol			NA	NA	NA	98 U	2,000 U	4,300 U
2,4-Dichlorophenol			NA	NA	NA	98 U	2,000 U	4,300 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			TUL-CB2	TUL-CB3	TUL-CB4	CB114	CB116	CB116
Lab Ref			ME86	ME86	ME86	MP02	MU58	QZ56
Utility Type[c]			SD	SD	SD	SD	SD	CB
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Hamm Creek	2nd Ave S SD	2nd Ave S SD
Date	SQS/ LAET	CSL/ 2LAET	01/09/08	01/09/08	01/09/08	03/25/08	05/01/08	06/07/10
2,4-Dimethylphenol[a]	29	29	NA	NA	NA	20 U	390 U	850 U
2,4-Dinitrophenol			NA	NA	NA	200 U	3,900 U	8,500 U
2,4-Dinitrotoluene			NA	NA	NA	98 U	2,000 U	4,300 U
2,6-Dinitrotoluene			NA	NA	NA	98 U	2,000 U	4,300 U
2-Chloronaphthalene			NA	NA	NA	20 U	390 U	850 U
2-Chlorophenol			NA	NA	NA	20 U	390 U	850 U
2-Methylnaphthalene	670	670	NA	NA	NA	20 U	390 U	**1,700**
2-Methylphenol[a]	63	63	NA	NA	NA	20 U	390 U	850 U
2-Nitroaniline			NA	NA	NA	98 U	2,000 U	4,300 U
2-Nitrophenol			NA	NA	NA	98 U	2,000 U	850 U
3,3'-Dichlorobenzidine			NA	NA	NA	98 U	2,000 U	4,300 U
3-Nitroaniline			NA	NA	NA	98 U	2,000 U	4,300 U
4,6-Dinitro-2-methylphenol			NA	NA	NA	200 U	3,900 U	8,500 U
4-Bromophenyl-phenylether			NA	NA	NA	20 U	390 U	850 U
4-Chloro-3-methylphenol			NA	NA	NA	98 U	2,000 U	4,300 U
4-Chloroaniline			NA	NA	NA	98 U	2,000 U	4,300 U
4-Chlorophenyl-phenylether			NA	NA	NA	20 U	390 U	850 U
4-Methylphenol[a]	670	670	NA	NA	NA	20 U	**410**	**2,200**
4-Nitroaniline			NA	NA	NA	98 U	2,000 U	4,300 U
4-Nitrophenol			NA	NA	NA	98 U	2,000 U	4,300 U
Benzoic acid[a]	650	650	NA	NA	NA	200 U	3,900 U	8,500 U
Benzyl alcohol[a]	57	73	NA	NA	NA	**36**	390 U	850 U
bis(2-Chloroethoxy) methane			NA	NA	NA	20 U	390 U	850 U
Bis-(2-chloroethyl) ether			NA	NA	NA	20 U	390 U	850 U
Carbazole			NA	NA	NA	20 U	390 U	850 U
Dibenzofuran	540	540	NA	NA	NA	20 U	390 U	850 U
Hexachlorobenzene	22	70	NA	NA	NA	20 U	390 U	850 U
Hexachlorobutadiene	11	120	NA	NA	NA	20 U	390 U	850 U
Hexachlorocyclopentadiene			NA	NA	NA	98 U	2,000 U	4,300 U
Hexachloroethane			NA	NA	NA	20 U	390 U	850 U
Isophorone			NA	NA	NA	20 U	390 U	850 U
Nitrobenzene			NA	NA	NA	20 U	390 U	850 U
n-Nitroso-di-n-propylamine			NA	NA	NA	98 U	2,000 U	4,300 U
N-Nitrosodiphenylamine	28	40	NA	NA	NA	20 U	390 U	850 U
Pentachlorophenol[a]	360	690	NA	NA	NA	98 U	2,000 U	4,300 U
Phenol[a]	420	1,200	NA	NA	NA	20 U	**390**	850 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB117	CB117	CB119	CB120	CB121	CB121	CB123	CB127	CB128	CB129	CB130	CB136	CB137	CB138	CB139	CB140
Lab Ref			MW66	RG11/RH95	MX98	MX98	MX98	RI55	NG32	NT73	NT73	NT73	NW26	OS71	OS71	OU95	OU95	OU95
Utility Type[c]			SD	CB	CS	CS	SD	CB	SD	SD	SD	SD	CS	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Hamm Creek	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	05/14/08	07/28/10	05/23/08	05/23/08	05/23/08	08/12/10	07/18/08	10/10/08	10/10/08	10/10/08	10/23/08	03/27/09	03/27/09	04/09/09	04/09/09	04/09/09
Total solids (%)			30.9	73.0	74.8	96.8	54.7	28.8	46.9	22.2	30.2	65.3	52.9	71.4	75.6	64.5	70.0	63.6
TOC (%)			10.4	3.8	4.03	1.44	6.14	14.0	7.53	16	18.9	4.58	17.0	5.88	4.03	9.02	2.66	10.1
Metals (mg/kg)																		
Arsenic	57	93	**4.5**	**7.4**	**3.5**	10 U	9 U	10 U	**20**	**70**	**2.3**	**8**	**480**	**5.5** J	**710** J	**6.4** J	**7.3** J	**8.9** J
Copper	390	390	**1,120**	**1,370**	**101**	**62.2**	**194**	**167**	**175**	**437**	**72.2**	**199**	**707**	**227** J	**4,930** J	**1,550** J	**190** J	**191** J
Lead	450	530	**223**	**41**	**76**	**9**	**89**	**102**	**99**	**131**	**24**	**40**	**1,230**	**407** J	**118** J	**106** J	**197** J	**166** J
Mercury	0.41	0.59	0.1 U	**0.04**	0.05 U	0.04 U	**0.86**	**0.66**	0.07 U	0.2 U	0.2 U	**0.07**	**21**	**0.34** J	**0.22** J	**0.11** J	**0.08** J	**0.06** J
Zinc	410	960	**542**	**291**	**283**	**40**	**1,360**	**1,720**	**1,950**	**1,530**	**424**	**1,760**	**1,460**	**2,920** J	**1,950** J	**1,730** J	**1,950** J	**1,380** J
Total petroleum hydrocarbons (mg/kg)																		
TPH-diesel	2,000[b]		**7,100**	**620**	**1,200**	**91**	**910**	**320**	**930**	**1,400**	**5,800**	**4,600**	**36,000**	**4,500**	**640**	**6,100**	**4,700**	**20,000**
TPH-oil	2,000[b]		**44,000**	**5,700**	**5,300**	**230**	**4,900**	**12,000**	**5,600**	**6,100**	**6,800**	**4,400**	**91,000**	**14,000**	**4,900**	**22,000**	**16,000**	**55,000**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	1,400 U	520 U	**8,100**	20 U	260 U	880 U	**1,300**	280 U	200 U	1400 U	**7,400**	260 U	140 U	230 U	65 U	330 U
Acenaphthylene	1,300	1,300	1,400 U	520 U	1,600 U	**25**	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Anthracene	960	960	1,400 U	520 U	**11,000**	**67**	260 U	880 U	**2,800**	**210** J	200 U	1,400 U	**4,300**	260 U	140 U	230 U	**82**	330 U
Fluorene	540	540	1,400 U	520 U	**6,400**	**40**	260 U	880 U	**2,700**	280 U	200 U	1,400 U	**12,000**	**150** J	140 U	230 U	**100**	330 U
Naphthalene	2,100	2,100	1,400 U	520 U	**3,800**	**180**	260 U	880 U	**360** J	280 U	200 U	1,400 U	**19,000**	**760**	140 U	230 U	**80**	**260** J
Phenanthrene	1,500	1,500	1,400 U	520 U	**48,000**	**99**	**290**	880 U	**11,000**	**830**	**650**	**830** J	**37,000**	**750**	**130** J	**260**	**480**	**480**
Total LPAH	5,200	5,200	**1,400**	520 U	**77,300**	**411**	**290**	880 U	**18,160** J	**1,040** J	**650**	**830** J	**79,700**	**1,660 J**	**130** J	**260**	**742**	**740** J
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	1,400 U	520 U	**26,000**	20 U	260 U	880 U	**1,600**	**640**	200 U	1,400 U	**2,700**	**280**	140 U	230 U	**150**	330 U
Benzo(a)pyrene	1,600	1,600	1,400 U	520 U	**26,000**	20 U	260 U	880 U	**830**	**310**	200 U	1,400 U	**1,300**	**260**	140 U	230 U	**65**	330 U
Benzo(b)fluoranthene	3,200	3,600	1,400 U	520 U	**26,000**	20 U	**280**	880 U	**1,100**	**660**	200 U	1,400 U	1,200 U	**320**	**120** J	**130** J	**140**	330 U
Benzo(g,h,i)perylene	670	720	1,400 U	520 U	**12,000**	20 U	260 U	880 U	**290** J	**190** J	200 U	1,400 U	1,200 U	**260**	**110** J	230 U	**100**	330 U
Benzo(k)fluoranthene	3,200	3,600	1,400 U	520 U	**17,000**	20 U	**300**	880 U	**1,400**	**980**	200 U	1,400 U	1,900	**470**	**160**	**130** J	**160**	**280** J
Chrysene	1,400	2,800	1,400 U	520 U	**30,000**	**13** J	420 NJ	**750** J	**2,800**	**2,200**	**230**	1,400 U	**4,000**	**630**	**220**	**370**	380	**380**
Dibenz(a,h)anthracene	230	230	1,400 U	520 U	**3,300**	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Fluoranthene	1,700	2,500	1,400 U	520 U	**54,000**	**33**	**430**	**600** J	**11,000**	**3,600**	**650**	**1,700**	**17,000**	**800**	**280**	400	**380**	**460**
Indeno(1,2,3-cd)pyrene	600	690	1,400 U	520 U	**13,000**	20 U	260 U	880 U	**230** J	**180** J	200 U	1,400 U	1,200 U	260 U	140 U	230 U	**33** J	330 U
Pyrene	2,600	3,300	1,400 U	520 U	**55,000**	**28**	**450**	**500** J	**5,600**	**2,200**	**390**	**780** J	**11,000**	**940**	**250**	**660**	**700**	**780**
Total HPAH	12,000	17,000	1,400 U	520 U	**262,300**	**74** J	**1,880** NJ	**1,850** J	**24,850** J	**10,960** J	**1,270**	**2,480** J	**37,900**	**3,960**	**1,140**	**1,690** JJ	**2,108** J	**1,900** J
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**18,000**	**6,800**	**1,600**	**170**	**15,000**	**16,000** B	1,700 U	**6,900**	**2,200**	**8,700**	**180,000**	**45,000**	**1,900**	**18,000** B	**19,000** B	**40,000** B
Butylbenzylphthalate	63	900	1,400 U	**320** J	1,600 U	20 U	**12,000**	**25,000**	**2,400**	280 U	200 U	**25,000**	**97,000**	**45,000**	**140**	**2,400**	**12,000**	**5,900**
Diethylphthalate	200		1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Dimethylphthalate	71	160	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	**770**	140 U	230 U	65 U	330 U
Di-n-butylphthalate	1,400	1,400	850 J	520 U	1,600 U	**55**	**3,300**	**4,100**	420 U	280 U	200 U	1,400 U	**11,000**	**19,000**	140 U	**510**	**620**	**570**
Di-n-octyl phthalate	6,200		930 J	520 U	1,600 U	20 U	**2,900**	**1,800** J	420 U	250 J	**250**	1,400 U	1,200 U	**8,000**	**130** J	**950**	**3,500**	**6,800**
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	19 U	20 U	20 U	240 U	130 U	20 U	20 U	20 U	18 U	41,000 Y	20 U	20 U	20 U	98 U	20 U
Aroclor 1221			20 U	19 U	20 U	20 U	240 U	130 U	20 U	20 U	20 U	18 U	4,100 U	20 U	20 U	20 U	98 U	20 U
Aroclor 1232			20 U	19 U	20 U	20 U	240 U	130 U	20 U	20 U	20 U	18 U	4,100 U	20 U	20 U	20 U	98 U	20 U
Aroclor 1242			20 U	19 U	20 U	20 U	240 U	130 U	20 U	20 U	20 U	18 U	4,100 U	20 U	20 U	20 U	98 U	20 U
Aroclor 1248			**120**	**60**	**26**	20 U	240 U	330 Y	20 U	20 U	20 U	18 U	4,100 U	30 Y	20 U	20 U	**200**	20 U
Aroclor 1254			**77**	**50** J	**39**	20 U	**8,300**	**3,700**	30 Y	20 U	20 U	**53**	27,000 Y	**57**	**32**	**31**	**280**	**34**
Aroclor 1260			**38**	**28**	**38**	20 U	240 U	660 Y	79 Y	20 U	20 U	**34**	4,100 U	**82**	20 U	**31**	98 U	**38**
Total PCBs	130	1,000	**235**	**138** J	**103**	20 U	**8,300**	**3,700**	79 Y	20 U	20 U	**87**	41,000 Y	**139**	**32**	**62**	**480**	**72**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
1,2-Dichlorobenzene	35	50	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
1,3-Dichlorobenzene			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
1,4-Dichlorobenzene	110	110	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
1-Methylnaphthalene				520 U				880 U										
2,2'-Oxybis(1-chloropropane)			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
2,4,5-Trichlorophenol			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB117	CB117	CB119	CB120	CB121	CB121	CB123	CB127	CB128	CB129	CB130	CB136	CB137	CB138	CB139	CB140
Lab Ref			MW66	RG11/RH95	MX98	MX98	MX98	RI55	NG32	NT73	NT73	NT73	NW26	OS71	OS71	OU95	OU95	OU95
Utility Type[c]			SD	CB	CS	CS	SD	CB	SD	SD	SD	SD	CS	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Private SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Hamm Creek	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS/ LAET	CSL/ 2LAET	05/14/08	07/28/10	05/23/08	05/23/08	05/23/08	08/12/10	07/18/08	10/10/08	10/10/08	10/10/08	10/23/08	03/27/09	03/27/09	04/09/09	04/09/09	04/09/09
2,4,6-Trichlorophenol			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
2,4-Dichlorophenol			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
2,4-Dimethylphenol[a]	29	29	1,400 U	520 U	1,600 U	**530**	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
2,4-Dinitrophenol			14,000 U	5,200 U	16,000 U	200 U	2,600 U	8,800 UJ	4,200 U	2,800 U	2,000 U	14,000 U	12,000 U	2,600 U	1,400 U	2,300 U	650 U	3,300 U
2,4-Dinitrotoluene			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
2,6-Dinitrotoluene			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
2-Chloronaphthalene			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
2-Chlorophenol			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
2-Methylnaphthalene	670	670	1,400 U	520 U	**1,800**	**97**	260 U	880 U	**570**	280 U	200 U	1,400 U	**39,000**	**1,200**	140 U	230 U	**100**	**860**
2-Methylphenol[a]	63	63	1,400 U	520 U	1,600 U	680	260 U	880 U	420 U	**1,500**	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
2-Nitroaniline			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
2-Nitrophenol			6,800 U	520 U	7,800 U	99 U	1,300 U	880 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
3,3'-Dichlorobenzidine			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
3-Nitroaniline			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
4,6-Dinitro-2-methylphenol			14,000 U	5,200 U	16,000 U	200 U	2,600 U	8,800 U	4,200 U	2,800 U	2,000 U	14,000 U	12,000 U	2,600 U	1,400 U	2,300 U	650 U	3,300 U
4-Bromophenyl-phenylether			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
4-Chloro-3-methylphenol			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
4-Chloroaniline			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
4-Chlorophenyl-phenylether			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
4-Methylphenol[a]	670	670	**4,000**	**850**	1,600 U	**660**	**650**	**6,700**	**610**	**400**	200 U	**960** J	1,200 U	**230** J	140 U	230 U	65 U	330 U
4-Nitroaniline			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
4-Nitrophenol			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
Benzoic acid[a]	650	650	14,000 U	5,200 U	16,000 U	200 U	2,600 U	**3,500** J	4,200 U	2,800 U	2,000 U	14,000 U	19,000 NJ	**1,600** J	**1,000** J	2,300 U	650 U	3,300 U
Benzyl alcohol[a]	57	73	1,400 U	520 U	1,600 U	20 U	260 U	880 UJ	420 U	280 U	200 U	1,400 U	1,600	260 U	140 U	230 U	240 U	330 U
bis(2-Chloroethoxy) methane			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Bis-(2-chloroethyl) ether			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Carbazole			1,400 U	520 U	**7,100**	20 U	260 U	880 U	**1,500**	**160** J	200 U	1,400 U	**2,300**	260 U	140 U	230 U	65 U	330 U
Dibenzofuran	540	540	1,400 U	520 U	**4,100**	**73**	260 U	880 U	**1,300**	280 U	200 U	1,400 U	**6,400**	260 U	140 U	230 U	65 U	330 U
Hexachlorobenzene	22	70	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Hexachlorobutadiene	11	120	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Hexachlorocyclopentadiene			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 UJ	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
Hexachloroethane			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Isophorone			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	**75**	330 U
Nitrobenzene			1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
n-Nitroso-di-n-propylamine			6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 U	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	1,200 U	320 U	1,700 U
N-Nitrosodiphenylamine	28	40	1,400 U	520 U	1,600 U	20 U	260 U	880 U	420 U	280 U	200 U	1,400 U	1,200 U	260 U	140 U	230 U	65 U	330 U
Pentachlorophenol[a]	360	690	6,800 U	2,600 U	7,800 U	99 U	1,300 U	4,400 UJ	2,100 U	1,400 U	1,000 U	7,000 U	6,200 U	1,300 U	700 U	**620** J	320 U	1,700 U
Phenol[a]	420	1,200	1,400 U	520 U	1,600 U	**4,000**	260 U	880 U	420 U	280 U	**7,000**	1,400 U	**13,000**	**290**	**270**	230 U	**140**	**400**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB154	CB155	CB157-F	CB157S	RD1	RD2	CB41C	CB158	CB159	CB160	CB161	CB163	PortCB6
Lab Ref			PY32	PY32	QW05	QW05	QW05	QW05	QT06	QW47	RD69	RD69	RF96	RJ82	RH70
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			7th Ave S SD	7th Ave S SD	S Garden St SD	S Garden St SD	S Garden St SD	S Myrtle St SD	SW Dakota St SD/ditch	Diagonal Ave S CSO/SD	Lake Washington	Lake Washington	Diagonal Ave S CSO/SD	S Brighton St CSO/SD	Terminal 117
Date	SQS/ LAET	CSL/ 2LAET	11/18/09	11/18/09	05/11/10	05/11/10	05/11/10	05/11/10	04/16/10	05/14/10	07/09/10	07/09/10	07/27/10	08/18/10	08/09/10
Total solids (%)			63.7	64.5	67.3	46.2	49.2	29.6	29.6	38.3	65.1	32.7	87.1	62.5	45.6
TOC (%)			1.89	1.26	4.59	6.7	8.84	8.37	8.4	13.1	10.0	18.5	3.7	6.7	9.3
Metals (mg/kg)															
Arsenic	57	93	7 UJ	8 UJ	**208**	**17.2**	**17.6**	**20.8**	10 U	**20**	7 U	10 U	10 U	7 U	**10**
Copper	390	390	**281** J	**267** J	**1,890**	**2,240**	**1,090**	**975**	**350**	**160**	**31.8**	**3,620**	**175**	**91.9**	**248**
Lead	450	530	**17** J	**17** J	**1,260**	**1,380**	**1,410**	**1,700**	**203**	**249**	**13**	**107**	**31**	**114**	**187**
Mercury	0.41	0.59	0.03 UJ	0.03 UJ	**0.8**	**1.55**	**0.92**	**2.56**	**0.22**	**0.26**	0.03 U	**0.09**	0.02 U	**0.19**	**0.31**
Zinc	410	960	**177** J	**175** J	**4,940**	**5,880**	**5,370**	**8,310**	**3,740**	**3,770**	**194**	**512**	**126**	**810**	**882**
Total petroleum hydrocarbons (mg/kg)															
TPH-diesel	2,000[b]		**860**	**980**	**840**	**970**	**210**	**190**	**370**	**680**	**110**	**720**	**73**	**1,200**	**1,200**
TPH-oil	2,000[b]		**960**	**980**	**6,200**	**8,200**	**2,400**	**1,700**	**2,000**	**4,400**	**860**	**5,400**	**780**	**6,200**	**6,500**
LPAH (ug/kg DW)															
Acenaphthene	500	500	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Acenaphthylene	1,300	1,300	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Anthracene	960	960	82 U	89 U	**130** J	**200** J	88 U	**190**	**180** J	150 U	200 U	520 U	190 U	550 U	**620**
Fluorene	540	540	82 U	89 U	220 U	250 U	88 U	**86** J	**160** J	150 U	200 U	520 U	190 U	550 U	**200** J
Naphthalene	2,100	2,100	82 U	89 U	**150** J	**210** J	**66** J	**130** J	**260**	150 U	200 U	520 U	190 U	550 U	270 U
Phenanthrene	1,500	1,500	**68** J	89 U	**900**	**880**	**640**	**1,100**	**1,000**	**280**	200 U	**590**	190 U	**340** J	**860**
Total LPAH	5,200	5,200	**68** J	**89** U	**1,180**	**1,290**	**706**	**1,506**	**1,600** J	**280**	200 U	**590**	190 U	**340** J	**1,680** J
HPAH (ug/kg DW)															
Benzo(a)anthracene	1,300	1,600	82 U	89 U	**550** J	**800** J	**440**	**720**	**370**	**140** J	200 U	**280** NJ	190 U	550 U	**400**
Benzo(a)pyrene	1,600	1,600	82 U	89 U	**440**	**580**	**670**	**1,000**	**620**	**540**	200 U	**800**	190 U	550 U	**540**
Benzo(b)fluoranthene	3,200	3,600	**37** J	89 U	**590**	**890**	**700**	**1,500**	**790**	**430**	200 U	**620**	190 U	550 U	**630**
Benzo(g,h,i)perylene	670	720	82 U	89 U	**180** J	**270**	**290**	**440**	**320** J	**440**	200 U	**480** J	190 U	**440** J	**480**
Benzo(k)fluoranthene	3,200	3,600	**37** J	89 U	**590**	**890**	**700**	**1,500**	**790**	**430**	200 U	**620**	190 U	550 U	**630**
Chrysene	1,400	2,800	**71** J	**65** J	**990**	**1,600**	**1,400**	**1,300**	**1,600**	**930**	200 U	**1,000**	**99** J	550 U	**980**
Dibenz(a,h)anthracene	230	230	82 U	89 U	**55** J	250 U	**70** J	**120** J	230 U	150 U	200 U	520 U	190 U	550 U	**140** J
Fluoranthene	1,700	2,500	**200**	**180**	**1,700**	**2,400**	**1,400**	**2,600**	**1,600**	**580**	200 U	**1,100**	190 U	**550**	**1,400**
Indeno(1,2,3-cd)pyrene	600	690	82 U	89 U	**130** J	**200** J	**170**	**360**	**260**	**140** J	200 U	**290** J	190 U	550 U	**300**
Pyrene	2,600	3,300	**160**	**120**	**1,100**	**1,500**	**910**	**1,400**	**1,200** J	**600**	200 U	**1,400**	190 U	**500** J	**1,900**
Total HPAH	12,000	17,000	**505** J	**365** J	**6,325** J	**9,130** J	**6,750** J	**10,940** J	**7,550** J	**4,230** J	200 U	**6,590** J	**99** J	**1,490** J	**7,400** J
Phthalates (ug/kg dw)															
Bis(2-ethylhexyl)phthalate	1,300	1,900	**30,000**	**36,000**	**33,000**	**41,000**	**11,000**	**12,000**	**37,000**	**13,000**	**4,200**	**33,000**	**770**	**10,000**	**57,000** B
Butylbenzylphthalate	63	900	**69** J	**120**	**5,000**	**4,300**	**2,200**	**4,600**	**1,800**	**610**	**250**	**960**	**320**	550 U	**7,400**
Diethylphthalate	200		82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Dimethylphthalate	71	160	**290**	**300**	**2,500**	**620**	**510**	**1,100**	**220** J	150 U	200 U	520 U	190 U	520 J	270 U
Di-n-butylphthalate	1,400	1,400	**260**	**230**	**1,500**	**1,200**	**670**	**2,200**	**200** J	**230**	200 U	520 U	190 U	550 U	270 U
Di-n-octyl phthalate	6,200		**1,000**	**910**	**2,200**	**3,400**	**920**	**970**	**3,700**	**1,200**	200 U	**2,900** J	190 U	550 U	**4,800** J
PCBs (ug/kg dw)															
Aroclor 1016			19 U	19 U	48 U	60 U	40 U	66 U	34 U	50 U	19 U	20 U	19 U	20 U	19 U
Aroclor 1221			19 U	19 U	48 U	60 U	40 U	66 U	34 U	50 U	19 U	20 U	19 U	20 U	19 U
Aroclor 1232			19 U	19 U	48 U	60 U	40 U	66 U	34 U	50 U	19 U	20 U	19 U	20 U	19 U
Aroclor 1242			19 U	19 U	48 U	60 U	40 U	66 U	34 U	50 U	19 U	20 U	19 U	**160**	19 U
Aroclor 1248			**88**	**83**	**1,300**	**1,400**	**570**	**1,800**	**100**	75 Y	19 U	**32**	19 U	20 U	58 Y
Aroclor 1254			**91**	**89**	**1,400**	**2,200**	**1,100**	**2,200**	**140**	**120**	19 U	**53**	19 UJ	**100**	**560**
Aroclor 1260			**54** J	**54** J	**260**	**420**	**260**	**570**	**77**	**60**	19 U	**38** J	19 U	**51**	**460**
Total PCBs	130	1,000	**233** J	**226** J	**2,960**	**4,020**	**1,930**	**4,570**	**317**	**180**	19 U	**123** J	19 U	**311**	**1,020**
Other organic compounds (ug/kg dw)															
1,2,4-Trichlorobenzene	31	51	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
1,2-Dichlorobenzene	35	50	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
1,3-Dichlorobenzene			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
1,4-Dichlorobenzene	110	110	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
1-Methylnaphthalene			82 U	89 U					**180** J	150 U	200 U	520 U	190 U	550 U	270 U
2,2'-Oxybis(1-chloropropane)			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
2,4,5-Trichlorophenol			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB154	CB155	CB157-F	CB157S	RD1	RD2	CB41C	CB158	CB159	CB160	CB161	CB163	PortCB6
Lab Ref			PY32	PY32	QW05	QW05	QW05	QW05	QT06	QW47	RD69	RD69	RF96	RJ82	RH70
Utility Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			7th Ave S SD	7th Ave S SD	S Garden St SD	S Garden St SD	S Garden St SD	S Myrtle St SD	SW Dakota St SD/ditch	Diagonal Ave S CSO/SD	Lake Washington	Lake Washington	Diagonal Ave S CSO/SD	S Brighton St CSO/SD	Terminal 117
Date	SQS/ LAET	CSL/ 2LAET	11/18/09	11/18/09	05/11/10	05/11/10	05/11/10	05/11/10	04/16/10	05/14/10	07/09/10	07/09/10	07/27/10	08/18/10	08/09/10
2,4,6-Trichlorophenol			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
2,4-Dichlorophenol			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
2,4-Dimethylphenol[a]	29	29	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
2,4-Dinitrophenol			820 U	890 U	2,200 U	2,500 U	880 U	1,500 U	2,300 U	1,500 U	2,000 U	5,200 U	1,900 U	5,500 U	2,700 UJ
2,4-Dinitrotoluene			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
2,6-Dinitrotoluene			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
2-Chloronaphthalene			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
2-Chlorophenol			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
2-Methylnaphthalene	670	670	82 U	89 U	**150 J**	**250**	**64 J**	**170**	**290**	150 U	200 U	520 U	190 U	550 U	**170** J
2-Methylphenol[a]	63	63	**140**	**140**	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
2-Nitroaniline			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
2-Nitrophenol			410 U	440 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
3,3'-Dichlorobenzidine			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
3-Nitroaniline			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
4,6-Dinitro-2-methylphenol			820 U	890 U	2,200 U	2,500 U	880 U	1,500 U	2,300 U	1,500 U	2,000 U	5,200 U	1,900 U	5,500 U	2,700 U
4-Bromophenyl-phenylether			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
4-Chloro-3-methylphenol			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
4-Chloroaniline			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
4-Chlorophenyl-phenylether			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
4-Methylphenol[a]	670	670	**96**	**100**	**330**	**7,800**	88 U	150 U	390	150 U	**9,100**	**290** J	190 U	**1,400**	270 U
4-Nitroaniline			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
4-Nitrophenol			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
Benzoic acid[a]	650	650	**320** J	**360** J	**870** J	**1,100** J	**590** J	1,500 U	2,300 U	**710** J	2,000 U	5,200 U	1,900 U	5,500 U	2,700 U
Benzyl alcohol[a]	57	73	**4,600**	**5,500**	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 UJ
bis(2-Chloroethoxy) methane			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Bis-(2-chloroethyl) ether			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Carbazole			82 U	89 U	220 U	250 U	**120**	**200**	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Dibenzofuran	540	540	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Hexachlorobenzene	22	70	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Hexachlorobutadiene	11	120	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Hexachlorocyclopentadiene			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 UJ	1,300 UJ
Hexachloroethane			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Isophorone			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Nitrobenzene			82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
n-Nitroso-di-n-propylamine			410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 U
N-Nitrosodiphenylamine	28	40	82 U	89 U	220 U	250 U	88 U	150 U	230 U	150 U	200 U	520 U	190 U	550 U	270 U
Pentachlorophenol[a]	360	690	410 U	440 U	1,100 U	1,200 U	440 U	730 U	1,200 U	770 U	1,000 U	2,600 U	940 U	2,800 U	1,300 UJ
Phenol[a]	420	1,200	**250**	**240**	**420**	**1,300**	**240**	**320**	230 U	150 U	**1,200**	520 U	190 U	550 U	270 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB142	CB143	CB144	CB145	CB146	CB147	CB148	CB149	CB150	CB203	CB204	CB206	CB207	RCB224
Lab Ref			PA02	PA19	PA34	PA34	PA34	PA34	PA34	PA34	PA69	OZ99	OZ99	PB20	PB20	PB20
Sample Type[c]			CB	CB	CB	Dirt	Dirt	Dirt	Dirt	Dirt	CB	CB	Dirt	CB	CB	CB
Outfall			Private storm drain	Private storm drain	8th Ave S (no SD)	8th Ave S (no SD)	8th Ave S (no SD)	8th Ave S (no SD)	8th Ave S (no SD)	8th Ave S (no SD)	1st Ave S (west side)	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Direct discharge	S Garden St SD	Diagonal Ave S CSO/SD
Date	SQS	CSL	05/21/09	05/26/09	05/27/09	05/27/09	05/27/09	05/27/09	05/27/09	05/27/09	05/28/09	05/21/09	05/21/09	06/03/09	06/03/09	06/03/09
Total solids (%)			62.6	69.8	40.6	85.3	93.3	98.6	94.7	99.7	60.3	64.3	78.9	48.2	82	84.1
TOC (%)			4.86	6.29	7.06	2.22	1.42	3.59	1.7	1.74	6.32	7.62	2.53	12.1	11	2.85
Metals (mg/kg)																
Arsenic	57	93	**11.4** J	**7** J	**20** J	**20** J	**8** J	**10** J	**6** J	10 UJ	**30** J	**9** J	6 UJ	**18.1** J	**60** J	**15** J
Copper	390	390	**288** J	**133** J	**668** J	**876** J	**48.7** J	**224** J	**83.2** J	**67.8** J	**181** J	**63.3** J	**56.3** J	**590** J	**7,990** J	**116** J
Lead	450	530	**235** J	**52** J	**1,180** J	**1,480** J	**71** J	**400** J	**155** J	**52** J	**110** J	**56** J	**39** J	**1,280** J	**2,240** J	**73** J
Mercury	0.41	0.59	**0.05** J	**0.07** J	**0.98** J	**1.13** J	**0.15** J	**0.41** J	**0.23** J	**0.03** J	**0.17** J	**0.10** J	**0.09** J	**2.96** J	**2.72** J	**0.46** J
Zinc	410	960	**882** J	**255** J	**948** J	**900** J	**97** J	**391** J	**130** J	**201** J	**2,140** J	**322** J	**161** J	**5,830** J	**13,300** J	**184** J
Total petroleum hydrocarbons (mg/kg)																
TPH-diesel	2,000[b]		**680**	**4,900**	**3,700**	**760**	**190**	**530**	**400**	**84**	**1,300**	**170**	65 U	**9,000**	**5,200**	**970**
TPH-oil	2,000[b]		**3,400**	**12,000**	**4,500**	**2,100**	**600**	**2,200**	**940**	**760**	**8,200**	**1,200**	**300**	**28,000**	**15,000**	**1,000**
LPAH (ug/kg DW)																
Acenaphthene	500	500	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	**1,500**	740 U	**400**
Acenaphthylene	1,300	1,300	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Anthracene	960	960	**37** J	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	**12** J	**3,800**	740 U	**230**
Fluorene	540	540	58 U	**250** J	**160** J	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	**1,900**	740 U	**980**
Naphthalene	2,100	2,100	**32** J	**260** J	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	**670** J	740 U	**470**
Phenanthrene	1,500	1,500	**330**	**780**	**430**	**190**	**160**	**81** J	**94**	58 U	**340**	**42** J	**45**	**19,000**	**2,100**	**2,300**
Total LPAH	5,200	5,200	**399** J	**1,290** J	**590** J	**190**	**160**	**81** J	**94**	**58**	**340**	**42** J	**57** J	**26,870** J	**2,100**	**4,380**
HPAH (ug/kg DW)																
Benzo(a)anthracene	1,300	1,600	**200**	**260** J	**200** J	**180**	**100**	**76** J	**58**	58 U	**270**	**59**	**100**	**8,300**	**1,200**	**110** J
Benzo(a)pyrene	1,600	1,600	**180**	**220** J	**190** J	**190** J	**140** J	**93** J	**81** J	58 U	**280** J	**87**	**140**	**7,300**	**940**	150 U
Benzo(b)fluoranthene	3,200	3,600	**280**	**230** J	**200** J	**200** J	**150** J	**92** J	**66** J	58 U	**310** J	**140**	**160**	**9,600**	**1,200**	**94** J
Benzo(g,h,i)perylene	670	720	**68**	**180** J	**160** J	**140** J	**73** J	**55** J	**36** J	58 U	**310** J	**50** J	**63**	**1,900**	740 U	150 U
Benzo(k)fluoranthene	3,200	3,600	**210**	**230** J	**200** J	**200** J	**95** J	**92** J	**66** J	58 U	**310** J	**93**	**130**	**9,600**	**1,200**	**94** J
Chrysene	1,400	2,800	**350**	**610**	**520**	**400**	**160**	**230**	**96**	**83**	**540**	**160**	**180**	**16,000**	**1,800**	**190**
Dibenz(a,h)anthracene	230	230	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	**21**	1,200 U	740 U	150 U
Fluoranthene	1,700	2,500	**1,100**	**700**	**560**	**450**	**300**	**200**	**140**	29 J	**1,000**	**99**	**140**	**32,000**	**3,700**	**360**
Indeno(1,2,3-cd)pyrene	600	690	**63**	270 U	260 U	**110** J	**67** J	110 U	57 U	58 U	**220** J	**32** J	**63**	**2,100**	740 U	150 U
Pyrene	2,600	3,300	**620**	**690**	**750**	**340**	**170**	**140**	**110**	58 U	**540**	**130**	**100**	**22,000**	**3,200**	**510**
Total HPAH	12,000	17,000	**3,071**	**3,120** J	**2,780** J	**2,210** J	**1,255**	**978** J	**653** J	**112** J	**3,780** J	**850** J	**1,097**	**108,800**	**13,240**	**1,358** J
Phthalates (ug/kg dw)																
Bis(2-ethylhexyl)phthalate	1,300	1,900	**4,100**	**22,000**	**14,000** B	**3,400** B	63 U	**2,000** B	290 U	360 U	**16,000** B	**2,100**	**220**	**99,000**	**62,000**	**6,000**
Butylbenzylphthalate	63	900	**170**	**480**	**2,100**	**360**	58 U	**420**	57 U	58 U	**6,500**	**490**	**71**	**5,200**	**6,000**	**110** J
Diethylphthalate	200		58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Dimethylphthalate	71	160	**32** J	270 U	260 U	120 U	58 U	110 U	57 U	**35** J	**540**	**31** J	20 U	**600** J	**1,400**	150 U
Di-n-butylphthalate	1,400	1,400	**230**	**530**	**420**	**220**	58 U	**100** J	57 U	58 U	**2,800**	59 U	20 U	**5,800**	**2,300**	150 U
Di-n-octyl phthalate	6,200		58 U	**1,200**	**850**	**170**	58 U	**98** J	57 U	**38** J	**1,800**	59 U	20 U	**3,900**	**6,000**	**260**
PCBs (ug/kg dw)																
Aroclor 1016			41 U	20 U	760 U	1,400 U	19 U	290 U	19 U	19 U	39 U	19 U	19 U	120 U	470 U	38 U
Aroclor 1221			41 U	20 U	760 U	1,400 U	19 U	290 U	19 U	19 U	39 U	19 U	19 U	120 U	470 U	38 U
Aroclor 1232			41 U	20 U	760 U	1,400 U	19 U	290 U	19 U	19 U	39 U	19 U	19 U	120 U	470 U	38 U
Aroclor 1242			41 U	20 U	760 U	1,400 U	19 U	290 U	19 U	19 U	39 U	19 U	19 U	**3,500**	470 U	38 U
Aroclor 1248			210 Y	**20**	760 U	1,400 U	19 U	290 U	19 U	19 U	39 U	19 U	19 U	120 U	**7,100**	**61**
Aroclor 1254			**850**	**30**	**1,800**	**3,800**	**52**	**590**	**130**	**26**	**78**	**45**	**29**	**1,600**	**8,600**	**57**
Aroclor 1260			**700**	25 Y	**1,800**	**3,100**	**130** J	**750**	**400**	**34**	**57**	**37**	**44**	**830**	**2,600** J	**48**
Total PCBs	130	1,000	**1,550**	**50**	**3,600**	**6,900**	**182** J	**1,340**	**530**	**60**	**135**	**82**	**73**	**5,930**	**18,300** J	**166**
Other organic compounds (ug/kg dw)																
1,2,4-Trichlorobenzene	31	51	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
1,2-Dichlorobenzene	35	50	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
1,3-Dichlorobenzene			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
1,4-Dichlorobenzene	110	110	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
1-Methylnaphthalene																
2,2'-Oxybis(1-chloropropane)			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
2,4,5-Trichlorophenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2,4,6-Trichlorophenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2,4-Dichlorophenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2,4-Dimethylphenol[a]	29	29	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U

DT-7: Onsite catch basin sample results (dry weight).

Sample ID			CB142	CB143	CB144	CB145	CB146	CB147	CB148	CB149	CB150	CB203	CB204	CB206	CB207	RCB224
Lab Ref			PA02	PA19	PA34	PA34	PA34	PA34	PA34	PA34	PA69	OZ99	OZ99	PB20	PB20	PB20
2,4-Dinitrophenol			580 U	2,700 U	2,600 U	1,200 U	580 U	1,100 U	570 U	580 U	1,500 U	590 U	200 U	12,000 U	7,400 U	1,500 U
2,4-Dinitrotoluene			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2,6-Dinitrotoluene			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2-Chloronaphthalene			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
2-Chlorophenol			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
2-Methylnaphthalene	670	670	58 U	**1,000**	**180** J	120 U	**58** J	110 U	**47** J	58 U	**86** J	59 U	20 U	**1,000** J	740 U	**3,600**
2-Methylphenol[a]	63	63	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	**110** J	59 U	20 U	1,200 U	740 U	150 U
2-Nitroaniline			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
2-Nitrophenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
3,3'-Dichlorobenzidine			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 R	740 U	300 U	98 U	5,900 U	3,700 U	770 U
3-Nitroaniline			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 R	740 U	300 U	98 U	5,900 U	3,700 U	770 U
4,6-Dinitro-2-methylphenol			580 U	2,700 U	2,600 U	1,200 U	580 U	1,100 U	570 U	580 R	1,500 U	590 U	200 U	12,000 U	7,400 U	1,500 U
4-Bromophenyl-phenylether			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
4-Chloro-3-methylphenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
4-Chloroaniline			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 R	740 U	300 U	98 U	5,900 U	3,700 U	770 U
4-Chlorophenyl-phenylether			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
4-Methylphenol[a]	670	670	**570**	**1,700**	**2,300**	**92** J	58 U	110 U	57 U	58 U	**13,000**	59 U	20 U	**1,800**	740 U	150 U
4-Nitroaniline			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
4-Nitrophenol			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 R	740 U	300 U	98 U	5,900 U	3,700 U	770 U
Benzoic acid[a]	650	650	580 U	2,700 U	2,600 U	1,200 U	580 U	1,100 U	570 U	580 R	**1,900**	590 U	200 U	12,000 U	7,400 U	1,500 U
Benzyl alcohol[a]	57	73	58 U	820	**510**	120 U	58 U	110 U	57 U	58 U	5,100 Y	59 U	20 U	1,200 U	740 U	150 U
bis(2-Chloroethoxy) methane			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Bis-(2-chloroethyl) ether			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Carbazole			**61**	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	**2,400**	740 U	**110** J
Dibenzofuran	540	540	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	**1,000** J	740 U	**340**
Hexachlorobenzene	22	70	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Hexachlorobutadiene	11	120	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Hexachlorocyclopentadiene			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
Hexachloroethane			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Isophorone			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	150 U
Nitrobenzene			58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	1,300 Y	59 U	20 U	1,200 U	740 U	150 U
n-Nitroso-di-n-propylamine			290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 U	740 U	300 U	98 U	5,900 U	3,700 U	770 U
N-Nitrosodiphenylamine	28	40	58 U	270 U	260 U	120 U	58 U	110 U	57 U	58 U	150 U	59 U	20 U	1,200 U	740 U	940 Y
Pentachlorophenol[a]	360	690	290 U	1,400 U	1,300 U	620 U	290 U	530 U	280 U	290 R	740 U	300 U	98 U	5,900 U	3,700 U	770 U
Phenol[a]	420	1,200	**57** J	270 U	**210** J	120 U	58 U	110 U	57 U	58 U	**1,000**	59 U	20 U	**1,400**	740 U	150 U

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. CB = catch basin sediment; dirt = street dirt
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB1	RCB2	RCB3	RCB4	RCB5	RCB6	RCB7	RCB8	RCB9	RCB10	RCB11	RCB12	RCB13	RCB15	RCB16	RCB17	RCB18
Lab Ref			GI79	GI79	GI79	GI79	GI79	GJ76	GJ76	GJ76	GJ76	GK68	GK68	GN05	GN05	GN05	GN05	GN96	GN96
Sewer Type[c]			SD	CS	CS	CS	CS	CS	SD	SD	SD	SD	CS	SD	SD	CS	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS	CSL	02/02/04	02/02/04	02/02/04	02/02/04	02/02/04	03/03/04	03/03/04	03/03/04	03/03/04	03/15/04	03/15/04	04/07/04	04/07/04	04/07/04	04/07/04	04/16/04	04/16/04
Total solids (%)			48.7	68.1	70	27.6	50.3	69.3	77.8	56.8	86.1	51.5	48.3	50.4	40.6	51.2	58.1	52	52.9
Metals (mg/kg DW)																			
Arsenic	57	93	**9**	**10**	**7**	**30**	**30**	7 U	**6**	9 U	10 U	10 U	10 U	10 U	**20**	**10**	**12**	**9**	9 U
Copper	390	390	**112**	**40.1**	**48.8**	**167**	**66.6**	**46.4**	**55.1**	**75.3**	**42.5**	**183**	**117**	**112**	**172**	**157**	**154**	**137**	**229**
Lead	450	530	**1,370**	**121**	**78**	**245**	**197**	**46**	**374**	**54**	**53**	**109**	**92**	**77**	**163**	**145**	**105**	**146**	**137**
Mercury	0.41	0.59	**0.87**	0.07 U	0.07 U	**0.3**	**0.32**	0.06 U	0.06 U	0.07 U	0.04 U	0.1 U	0.07 U	0.1 U	**0.17**	**0.2**	**0.19**	**0.15**	**0.13**
Zinc	410	960	**364**	**137**	**179**	**851**	**362**	**176**	**142**	**223**	**151**	**589**	**243**	**384**	**567**	**781**	**698**	**534**	**575**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		**3,500**	**270**	**200**	**460**	**260**	**380**	**210**	**320**	**160**	**6,300**	630 U	**540**	**1,200**	**1,400**	**1,400**	**1,400**	**1,700**
TPH-oil	2,000[b]		**4,000**	**1,600**	**1,400**	**1,600**	**2,400**	**2,800** J	**1,600**	**3,000**	**1,900**	**14,000**	**4,600**	**3,000**	**7,800**	**9,100**	**8,000**	**7,200**	**8,500**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	**770**	**45** J	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Acenaphthylene	1,300	1,300	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Anthracene	960	960	**680**	**72** J	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	**400**	**410**
Fluorene	540	540	**1,500**	**47** J	79 U	480 U	79 U	42 U	39 U	68 U	39 U	**2,500**	140 U	160 U	350 U	340 U	210 U	**260**	**260**
Naphthalene	2,100	2,100	**520**	79 U	79 U	480 U	79 U	42 U	39 U	**83**	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Phenanthrene	1,500	1,500	**3,200**	**460**	**120**	480 U	**100**	**93**	**70**	**130**	**57**	**4,900**	**640**	**660**	**2,700**	**1,100**	**1,100**	**2,800**	**3,000**
Total LPAH	5,200	5,200	**6,670**	**624** J	**120**	480 U	**100**	**93**	**70**	**213**	**57**	**7,400**	**640**	**660**	**2,700**	**1,100**	**1,100**	**3,460**	**3,670**
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	**510**	**230**	**76** J	480 U	**110**	**43**	39 U	68 U	**42**	1,200 U	**370**	**530**	**1,500**	**520**	**460**	**1,700**	**1,800**
Benzo(a)pyrene	1,600	1,600	**480** J	**190**	**95**	480 U	**210**	**47**	39 U	**110**	**59**	1,200 U	**380**	**400**	**1,400**	**490**	**360**	**2,200**	**2,400**
Benzo(b)fluoranthene	3,200	3,600	**630**	**310**	**110**	480 U	**120**	**61**	**40**	**140**	**69**	1,200 U	**460**	**540**	**2,000**	**710**	**610**	**2,000**	**2,300**
Benzo(g,h,i)perylene	670	720	**280** J	**77** J	**40** J	480 U	**110**	42 U	39 U	**72**	39 U	1,200 U	**300**	**180**	**600**	**360**	**290**	**1,300**	**1,400**
Benzo(k)fluoranthene	3,200	3,600	**540**	**200**	**88**	480 U	**240**	**66**	**41**	**140**	**69**	1,200 U	**380**	**460**	**1,800**	**710**	**610**	**2,000**	**2,300**
Chrysene	1,400	2,800	**880**	**340**	**130**	480 U	**160**	**97**	**63**	**230**	**86**	1,200 U	**590**	**730**	**2,500**	**1,100**	**1,100**	**3,100**	**3,300**
Dibenz(a,h)anthracene	230	230	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	**590**	**530**
Fluoranthene	1,700	2,500	**1,900**	**660**	**220**	480 U	**280**	**170**	**120**	**220**	**100**	**1,800**	**1,100**	**1,800**	**6,000**	**2,200**	**2,100**	**5,500**	**5,900**
Indeno(1,2,3-cd)pyrene	600	690	**270** J	**78** J	79 U	480 U	**55** J	42 U	39 U	68 U	39 U	1,200 U	**270**	**200**	**670**	340 U	210 U	**1,300**	**1,400**
Pyrene	2,600	3,300	**1,700**	**600**	**220**	480 U	**200**	**150**	**100**	**200**	**100**	**1,600** J	**900**	**970**	**2,900**	**1,300**	**1,300**	**4,600**	**5,100**
Total HPAH	12,000	17,000	**7,190** J	**2,685** J	**979** J	480 U	**1,485** J	**634**	**364**	**1,112**	**525**	**3,400**	**4,750**	**5,810**	**19,370**	**7,390**	**6,830**	**24,290**	**26,430**
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**46,000**	**2,900**	**2,400**	**3,600**	**2,400**	**4,000**	**2,100**	**8,600**	**970**	**35,000** J	**3,200**	**5,600**	**17,000**	**18,000**	**14,000**	**12,000**	**14,000**
Butylbenzylphthalate	63	900	**700**	**200**	**340**	**1,500**	**160**	**250**	**80**	**130**	39 U	1,200 U	**230**	**220**	**450**	**840**	**870**	**2,100**	**950**
Diethylphthalate	200		490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Dimethylphthalate	71	160	490 U	79 U	79 U	480 U	79 U	42 U	**820**	68 U	39 U	1,200 U	140 U	160 U	**5,200**	340 U	210 U	240 U	**720**
Di-n-butylphthalate	1,400	1,400	**26,000**	**85**	79 U	480 U	**210**	**140**	**52**	**76**	39 U	1,200 U	140 U	160 U	**330** J	340 U	**250**	**240**	260 U
Di-n-octyl phthalate	6,200		**1,200**	**230**	**240**	480 U	79 U	**210**	**110**	**500**	**330**	**2,200** J	**150**	**230**	**1,200**	**1,100**	**1,600**	**570**	**910**
PCBs (ug/kg dw)																			
Aroclor 1016			19 U	19 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U
Aroclor 1221			19 U	19 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U
Aroclor 1232			19 U	19 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U
Aroclor 1242			19 U	19 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U	20 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U
Aroclor 1248			**240**	19 U	19 U	20 U	20 U	19 U	20 U	19 U	20 U	42 Y	19 U	20 U	**35**	**90**	**73**	**91**	**110**
Aroclor 1254			**280**	**30**	19 U	20 U	**20** J	19 U	20 U	19 U	20 U	**54**	19 U	**30**	**77**	**119**	**130**	**79**	**80**
Aroclor 1260			**150**	19 U	19 U	20 U	**22** J	19 U	20 U	19 U	20 U	20 U	19 U	**20** J	**49**	**94**	**90**	**61**	**58**
Total PCBs	130	1,000	**670**	**30**	19 U	20 U	**42** J	19 U	20 U	19 U	20 U	**54**	19 U	**50** J	**161**	**303**	**293**	**231**	**248**
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
1,2-Dichlorobenzene	35	50	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
1,3-Dichlorobenzene			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
1,4-Dichlorobenzene	110	110	490 U	79 U	79 U	480 U	79 U	**470**	**140**	**130**	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
2,4,5-Trichlorophenol			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
2,4,6-Trichlorophenol			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
2,4-Dichlorophenol			1,500 U	240 U	240 U	1,400 U	240 U	120 U	120 U	200 U	120 U	3,500 U	420 U	480 U	1,000 U	1,000 U	620 U	720 U	780 U
2,4-Dimethylphenol[a]	29	29	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
2,4-Dinitrophenol			4,900 U	790 U	790 U	4,800 U	790 U	420 U	390 U	680 U	390 U	12,000 U	1,400 U	1,600 U	3,500 U	3,400 U	2,100 U	2,400 U	2,600 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB1	RCB2	RCB3	RCB4	RCB5	RCB6	RCB7	RCB8	RCB9	RCB10	RCB11	RCB12	RCB13	RCB15	RCB16	RCB17	RCB18
Lab Ref			GI79	GI79	GI79	GI79	GI79	GJ76	GJ76	GJ76	GJ76	GK68	GK68	GN05	GN05	GN05	GN05	GN96	GN96
Sewer Type[c]			SD	CS	CS	CS	CS	CS	SD	SD	SD	SD	CS	SD	SD	CS	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS	CSL	02/02/04	02/02/04	02/02/04	02/02/04	02/02/04	03/03/04	03/03/04	03/03/04	03/03/04	03/15/04	03/15/04	04/07/04	04/07/04	04/07/04	04/07/04	04/16/04	04/16/04
Total solids (%)			48.7	68.1	70	27.6	50.3	69.3	77.8	56.8	86.1	51.5	48.3	50.4	40.6	51.2	58.1	52	52.9
2,4-Dinitrotoluene			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
2,6-Dinitrotoluene			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
2-Chloronaphthalene			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
2-Chlorophenol			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
2-Methylnaphthalene	670	670	**4,000**	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	**200** J	240 U	260 U
2-Methylphenol[a]	63	63	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
2-Nitroaniline			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
2-Nitrophenol			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
3,3'-Dichlorobenzidine			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
3-Nitroaniline			2,900 U	470 U	470 U	2,900 U	480 U	250 U	240 U	410 U	230 U	6,900 U	840 U	960 U	2,100 U	2,100 U	1,200 U	1,400 U	1,600 U
4,6-Dinitro-2-methylphenol			4,900 U	790 U	790 U	4,800 U	790 U	420 U	390 U	680 U	390 U	12,000 U	1,400 U	1,600 U	3,500 U	3,400 U	2,100 U	2,400 U	2,600 U
4-Bromophenyl-phenylether			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
4-Chloro-3-methylphenol			970 U	160 U	160 U	950 U	160 U	780 U	920 U	1,400 U	350 U	2,300 U	280 U	320 U	690 U	690 U	410 U	480 U	520 U
4-Chloroaniline			1,500 U	240 U	240 U	1,400 U	240 U	120 U	120 U	200 U	120 U	3,500 U	420 U	480 U	1,000 U	1,000 U	620 U	720 U	780 U
4-Chlorophenyl-phenylether			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
4-Methylphenol[a]	670	670	**4,700**	**2,000**	**350**	**4,600**	79 U	**780**	**320**	68 U	39 U	1,200 U	**1,600**	**30,000**	**2,500**	**450**	**5,400**	**510**	**660**
4-Nitroaniline			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
4-Nitrophenol			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
Benzoic acid[a]	650	650	4,900 U	790 U	790 U	4,800 U	790 U	420 U	390 U	680 U	390 U	12,000 U	1,400 U	**3,000**	3,500 U	3,400 U	2,100 U	2,400 U	2,600 U
Benzyl alcohol[a]	57	73	**880**	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
bis(2-Chloroethoxy) methane			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Bis-(2-chloroethyl) ether			970 U	160 U	160 U	950 U	160 U	83 U	78 U	140 U	78 U	2,300 U	280 U	320 U	690 U	690 U	410 U	480 U	520 U
Carbazole			**420** J	**59** J	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	**480**	340 U	210 U	**510**	**510**
Dibenzofuran	540	540	**540**	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Hexachlorobenzene	22	70	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Hexachlorobutadiene	11	120	490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Hexachlorocyclopentadiene			2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	700 U	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
Hexachloroethane			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Isophorone			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Nitrobenzene			490 U	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
n-Nitroso-di-n-propylamine			970 U	160 U	160 U	950 U	160 U	83 U	78 U	140 U	78 U	2,300 U	280 U	320 UJ	690 U	690 U	410 U	480 U	520 U
N-Nitrosodiphenylamine	28	40	1,200 Y	79 U	79 U	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	160 U	350 U	340 U	210 U	240 U	260 U
Pentachlorophenol[a]	360	690	2,400 U	390 U	390 U	2,400 U	400 U	210 U	200 U	340 U	200 U	5,800 U	**1,400**	800 U	1,700 U	1,700 U	1,000 U	1,200 U	1,300 U
Phenol[a]	420	1,200	490 U	**160**	**58** J	480 U	79 U	42 U	39 U	68 U	39 U	1,200 U	140 U	2,000	**390**	340 U	210 U	240 U	260 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB19	RCB20	RCB21	RCB22	RCB23	RCB24	RCB25	RCB26	RCB27	RCB28	RCB29	RCB30	RCB31	RCB32	RCB33	RCB34	RCB35
Lab Ref			GN96	GN96	GN96	GN96	GO21	GO21	GO21	GO21	GO21	GO21	GP60	GQ96	GQ96	GQ96	GU49	GU49	GU49
Sewer Type[c]			SD	SD	CS	SD	SD	SD	SD	CS	CS	CS	CS	SD	CS	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Norfolk CSO/SD/P S17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS	CSL	04/16/04	04/16/04	04/16/04	04/16/04	04/21/04	04/21/04	04/21/04	04/21/04	04/21/04	04/21/04	05/07/04	05/26/04	05/26/04	05/26/04	06/30/04	06/30/04	06/30/04
Total solids (%)			69.6	35.5	68	77.7	50	63.3	71	78.2	70.1	37.1	55.6	80.7	74.0	47.0	88.9	61.2	59.5
Metals (mg/kg DW)																			
Arsenic	57	93	7 U	10 U	7 U	6 U	10 U	8 U	7 U	6 U	7 U	10 U	9 U	10 U	20 U	10 U	10 U	8 U	8 U
Copper	390	390	**71.9**	**164**	**38.4**	**97.2**	**81.6**	**41.4**	**53.1**	**40.2**	**159**	**76.9**	**134**	**46.2**	**185**	**97.5**	**149** J	**134**	**120**
Lead	450	530	**64**	**206**	**39**	**65**	**180**	**316**	**25**	**136**	**111**	**131**	**106**	**20**	**157**	**126**	**60** J	**89**	**193**
Mercury	0.41	0.59	0.05 U	0.2	0.07 U	0.06 U	**0.12**	**0.31**	0.07 U	0.06 U	0.06 U	**0.2**	**0.26**	0.06 U	**0.07**	0.09 U	0.06 U	**0.08**	**0.1**
Zinc	410	960	**252**	**759**	**132**	**176**	**277**	**226**	**120**	**84.7**	**335**	**313**	**334**	**171**	**552**	**305**	**674**	**488**	**358**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		**470**	**1,800**	**390**	**230**	**690**	**400**	**290**	**1,800**	**560**	**140**	**130** J	**130**	**150**	**150**	**190**	**1,200**	**420**
TPH-oil	2,000[b]		**2,600**	**11,000**	**2,500**	**1,500**	**2,500** J	**1,400**	**1,200**	**4,500**	**2,400**	**910**	**480** J	**630**	**660**	**690**	**1,100**	**6,100**	**2,100**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Acenaphthylene	1,300	1,300	120 U	420 U	120 U	78 U	250 U	**150**	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Anthracene	960	960	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	**150**	29 U	150 U	**220**
Fluorene	540	540	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	**170**
Naphthalene	2,100	2,100	120 U	420 U	120 U	78 U	250 U	**180**	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Phenanthrene	1,500	1,500	**460**	**1,200**	**140**	**100**	**350**	**1,600**	82 U	**590**	**560**	**380**	**220**	**230**	**330**	**970**	**150**	**850**	**1,600**
Total LPAH	5,200	5,200	**460**	**1,200**	**140**	**100**	**350**	**1,930**	82 U	**590**	**560**	**380**	**220**	**230**	**330**	**1,120**	**150**	**850**	**1,990**
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	**170**	**600**	120 U	**81**	250 U	**420**	82 U	240 U	**280**	**250**	**60**	**120**	**200**	**280**	**120**	**360**	**660**
Benzo(a)pyrene	1,600	1,600	**140**	**580**	120 U	**89**	250 U	**600**	82 U	240 U	**290**	**260**	**63**	**110**	**190**	**360**	**140**	**380**	**820**
Benzo(b)fluoranthene	3,200	3,600	**130**	**650**	120 U	**100**	250 U	**540**	82 U	240 U	**270** J	**230**	**90**	**140**	**230**	**430**	**190**	**670**	**1,700**
Benzo(g,h,i)perylene	670	720	**120** J	**490**	120 U	78 U	250 U	**300**	82 U	240 U	**280**	190 U	60 U	**94**	**150**	**220**	**83**	**160**	**280**
Benzo(k)fluoranthene	3,200	3,600	**130**	**650**	120 U	**96**	250 U	**540**	82 U	240 U	**310**	**230**	60 U	80 U	**120**	**220**	**160**	**510**	**1,100**
Chrysene	1,400	2,800	**310**	**1,400**	**160**	**170**	**400**	**870**	**99**	**500**	**510**	**400**	**130**	**180**	**300**	**430**	**170**	**680**	**1,300**
Dibenz(a,h)anthracene	230	230	120 U	420 U	120 U	78 U	250 U	**130**	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Fluoranthene	1,700	2,500	**600**	**2,300**	**220**	**220**	**580**	**1,700**	**120**	**280**	**860**	**590**	**240**	**340**	**520**	**1,300**	**310**	**1,400**	**2,700**
Indeno(1,2,3-cd)pyrene	600	690	120 U	420 U	120 U	78 U	250 U	**320**	82 U	240 U	270 U	190 U	60 U	**85**	**140**	**220**	**74**	150 U	**360**
Pyrene	2,600	3,300	**550**	**2,400**	**250**	**250**	**650**	**1,400**	**150**	**390**	**980**	**590**	**250**	**330**	**500**	**840**	**300**	**1,000**	**2,000**
Total HPAH	12,000	17,000	**2,150** J	**9,070**	**630**	**1,006**	**1,630**	**6,820**	**369**	**1,170**	**3,780** J	**2,550**	**833**	**1,399**	**2,350**	**4,300**	**1,547**	**5,160**	**10,920**
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**5,900**	**24,000**	**4,300**	**3,100**	**8,700**	**1,100**	**1,900**	**1,300**	**12,000**	**4,100**	**1,400**	**3,200**	**1,100**	**21,000**	**740**	**16,000**	**8,000**
Butylbenzylphthalate	63	900	**970**	**920**	**180**	**160**	**300**	130 U	**100**	240 U	270 U	**290**	**140**	**390**	**260**	**350**	**210**	**290**	**700**
Diethylphthalate	200		120 U	**1,200**	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Dimethylphthalate	71	160	**260**	**540**	**1,400**	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Di-n-butylphthalate	1,400	1,400	120 U	**3,700**	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	**140**	**250**	29 U	150 U	**200**
Di-n-octyl phthalate	6,200		**300**	**2,400**	**290**	**110**	**320**	**150**	82 U	240 U	**690**	**330**	60 U	**470**	**80**	**540**	**59**	**1,600**	**4,800**
PCBs (ug/kg dw)																			
Aroclor 1016			19 U	20 U	19 U	20 U	20 U	19 U	19 U	19 U	19 U	20 U	20 U	19 U	20 U	19 U	19 U	19 U	20 U
Aroclor 1221			19 U	20 U	19 U	20 U	20 U	19 U	19 U	19 U	19 U	20 U	20 U	19 U	39 Y	19 U	19 U	19 U	20 U
Aroclor 1232			19 U	20 U	19 U	20 U	20 U	19 U	19 U	19 U	19 U	20 U	20 U	19 U	20 U	38 Y	19 U	19 U	20 U
Aroclor 1242			19 U	20 U	19 U	20 U	20 U	19 U	19 U	19 U	19 U	20 U	20 U	19 U	**210** J	19 U	19 U	19 U	20 U
Aroclor 1248			19 U	**33**	19 U	20 U	20 U	19 U	19 U	19 U	19 U	20 U	**44**	19 U	20 U	19 U	19 U	**27**	**40**
Aroclor 1254			**39**	**92**	19 U	20 U	**24**	**25**	19 U	19 U	**22**	**36**	**24**	19 U	**49**	**86**	**29**	**48**	**63**
Aroclor 1260			**25**	**62**	19 U	**21** J	**21** J	19 U	19 U	19 U	20 U	20 U	19 U	**29**	**52**	**24**	**39**	**39**
Total PCBs	130	1,000	**64**	**154**	19 U	**21** J	**45** J	**25**	19 U	19 U	**22**	**36**	**68**	19 U	**288** J	**138**	**53**	**114**	**142**
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
1,2-Dichlorobenzene	35	50	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
1,3-Dichlorobenzene			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
1,4-Dichlorobenzene	110	110	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2,4,5-Trichlorophenol			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
2,4,6-Trichlorophenol			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
2,4-Dichlorophenol			350 U	1,300 U	350 U	230 U	760 U	380 U	250 U	730 U	820 U	560 U	180 U	240 U	220 U	320 U	87 U	460 U	290 U
2,4-Dimethylphenol[a]	29	29	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2,4-Dinitrophenol			1,200 U	4,200 U	1,200 U	780 U	2,500 U	1,300 U	820 U	2,400 U	2,700 U	1,900 U	600 U	800 U	730 U	1,100 U	290 U	1,500 U	970 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB19	RCB20	RCB21	RCB22	RCB23	RCB24	RCB25	RCB26	RCB27	RCB28	RCB29	RCB30	RCB31	RCB32	RCB33	RCB34	RCB35
Lab Ref			GN96	GN96	GN96	GN96	GO21	GO21	GO21	GO21	GO21	GO21	GP60	GQ96	GQ96	GQ96	GU49	GU49	GU49
Sewer Type[c]			SD	SD	CS	SD	SD	SD	SD	CS	CS	CS	CS	SD	CS	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	CS	Norfolk CSO/SD/P S17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**SQS**	**CSL**	04/16/04	04/16/04	04/16/04	04/16/04	04/21/04	04/21/04	04/21/04	04/21/04	04/21/04	04/21/04	05/07/04	05/26/04	05/26/04	05/26/04	06/30/04	06/30/04	06/30/04
Total solids (%)			69.6	35.5	68	77.7	50	63.3	71	78.2	70.1	37.1	55.6	80.7	74.0	47.0	88.9	61.2	59.5
2,4-Dinitrotoluene			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	270 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
2,6-Dinitrotoluene			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
2-Chloronaphthalene			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2-Chlorophenol			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2-Methylnaphthalene	670	670	120 U	420 U	120 U	78 U	250 U	130 U	82 U	**520**	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2-Methylphenol[a]	63	63	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
2-Nitroaniline			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
2-Nitrophenol			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
3,3'-Dichlorobenzidine			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
3-Nitroaniline			710 U	2,500 U	710 U	470 U	1,500 U	760 U	490 U	1,500 U	1,600 U	1,100 U	360 U	480 U	440 U	640 U	170 U	910 U	580 U
4,6-Dinitro-2-methylphenol			1,200 U	4,200 U	1,200 U	780 U	2,500 U	1,300 U	820 U	2,400 U	2,700 U	1,900 U	600 U	800 U	730 U	1,100 U	290 U	1,500 U	970 U
4-Bromophenyl-phenylether			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
4-Chloro-3-methylphenol			240 U	840 U	240 U	160 U	510 U	250 U	160 U	490 U	540 U	370 U	120 U	160 U	150 U	210 U	58 U	300 U	190 U
4-Chloroaniline			350 U	1,300 U	350 U	230 U	760 U	380 U	250 U	730 U	820 U	560 U	180 U	240 U	220 U	320 U	87 U	460 U	290 U
4-Chlorophenyl-phenylether			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
4-Methylphenol[a]	670	670	**380**	420 U	**1,400**	78 U	250 U	**170**	**450**	240 U	**3,700**	190 U	60 U	**320**	73 U	**17,000**	29 U	**390**	**650**
4-Nitroaniline			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
4-Nitrophenol			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
Benzoic acid[a]	650	650	1,200 U	4,200 U	1,200 U	780 U	2,500 U	1,300 U	820 U	2,400 U	2,700 U	1,900 U	600 U	800 U	730 U	1,100 U	290 U	1,500 U	970 U
Benzyl alcohol[a]	57	73	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	**300**
bis(2-Chloroethoxy) methane			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Bis-(2-chloroethyl) ether			240 U	840 U	240 U	160 U	510 U	250 U	160 U	490 U	540 U	370 U	120 U	160 U	150 U	210 U	58 U	300 U	190 U
Carbazole			120 U	420 U	120 U	78 U	250 U	**220**	82 U	240 U	270 U	190 U	60 U	80 U	73 U	**150**	29 U	150 U	**300**
Dibenzofuran	540	540	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	1,400 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Hexachlorobenzene	22	70	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Hexachlorobutadiene	11	120	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Hexachlorocyclopentadiene			590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
Hexachloroethane			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Isophorone			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Nitrobenzene			120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
n-Nitroso-di-n-propylamine			240 U	840 U	240 U	160 U	510 U	250 U	160 U	490 U	540 U	370 U	120 U	160 U	150 U	210 U	58 U	300 U	190 U
N-Nitrosodiphenylamine	28	40	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	110 U	29 U	150 U	97 U
Pentachlorophenol[a]	360	690	590 U	2,100 U	590 U	390 U	1,300 U	630 U	410 U	1,200 U	1,400 U	930 U	300 U	400 U	360 U	530 U	140 U	760 U	480 U
Phenol[a]	420	1,200	120 U	420 U	120 U	78 U	250 U	130 U	82 U	240 U	270 U	190 U	60 U	80 U	73 U	**1,100**	29 U	150 U	**120**

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB36	RCB37	RCB37	RCB37	RCB37	RCB38	RCB39	RCB40	RCB41	ROW24	RCB43	RCB44	RCB45	RCB49	RCB50	RCB51	RCB52
Lab Ref			GU49	GU49	ME86	OL20	QL09	GU49	GU49	GU49	GU49	HP36	HR76	HY59	HY59	IS72	JB06	JC82	JE72
Sewer Type[c]			SD	SD	SD	RCB	SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	SW Dakota St SD/ditch	2nd Ave S SD	2nd Ave S SD	CS	I-5 SD at Slip 4	Diagonal Ave S CSO/SD	SW Kenny St SD/T115 CSO
Date	SQS	CSL	06/30/04	06/30/04	01/10/08	02/04/09	02/23/10	06/30/04	06/30/04	06/30/04	06/30/04	01/14/05	02/04/05	04/13/05	04/13/05	11/08/05	02/10/06	03/02/06	03/26/06
Total solids (%)			58.7	70.3	52	NA	68.5	73.0	73.2	90.9	55.5	75.8	69.0	69.1	65.6	75.2	80.5	45.5	83
Metals (mg/kg DW)																			
Arsenic	57	93	**15**	7 U	**10**	NA	**8**	7 U	7 U	5 U	8 U	20 U	20 U	**11**	**23**	20 U	6 U	**10**	**20**
Copper	390	390	**751**	**58.8**	**127**	NA	**67.8**	**57.7**	**113**	**70.4**	**83.2**	**84.4**	NA	**98.8**	**105**	**85**	**37.9**	**166**	**183**
Lead	450	530	**152**	**62**	**94**	NA	**55**	**99**	**61**	**99**	**120**	**19**	**118**	**113**	**87**	**79**	**10**	**412**	**38**
Mercury	0.41	0.59	**1.17**	0.06 U	**0.11**	NA	0.03 U	**0.06**	0.06 U	0.04 U	0.07 U	0.06 U	**0.09**	**0.06**	0.07 U	0.05 U	0.05 U	**0.2**	0.05 U
Zinc	410	960	**505**	**189**	**496**	NA	**209**	**197**	**213**	**207**	**223**	**185**	NA	**444**	**394**	**357**	**92.7**	**966**	**370**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		**1,800**	**220**	NA	NA	**320**	**230**	**640**	**140**	**260**	**6,400**	**190**	**610**	**880**	**68**	**340**	**2,300**	59 U
TPH-oil	2,000[b]		**6,000**	**1,200**	NA	NA	**2,100**	**1,300**	**3,500**	**850**	**1,200**	**14,000**	**1,100**	**3,100**	**3,900**	**450**	**1,400**	**12,000**	**370**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	160 U	**78**	950 U	NA	96 U	**1,200**	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Acenaphthylene	1,300	1,300	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Anthracene	960	960	**200**	**180**	950 U	NA	96 U	**2,000**	**80**	36 U	**120**	2,000 U	757 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Fluorene	540	540	**260**	**120**	950 U	NA	96 U	**1,400**	**100**	36 U	54 U	**3,000**	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Naphthalene	2,100	2,100	**320**	**70**	950 U	NA	96 U	**1,100**	61 U	36 U	**160**	2,000 U	**140** J	130 U	210 U	200 U	200 U	1,600 U	120 U
Phenanthrene	1,500	1,500	**1,400**	**1,000**	950 U	NA	**250**	**9,100**	**570**	**87**	**120**	**5,900**	**200** J	130 U	210 U	200 U	**150** J	**1,700**	**69** J
Total LPAH	5,200	5,200	**2,180**	**1,448**	950 U	NA	**250**	**14,800**	**750**	**87**	**400**	**8,900**	**340** J	130 U	210 U	200 U	**150** J	**1,700**	**69** J
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	**280**	**520**	950 U	NA	**120**	**2,700**	**180**	**70**	54 U	2,000 U	**100** J	130 U	210 U	200 U	200 U	**1,300** J	**78** J
Benzo(a)pyrene	1,600	1,600	**350**	**420**	950 U	NA	**140**	**2,000**	**160**	**79**	**100**	2,000 U	**150** J	**270**	210 U	**110** J	200 U	**1,400** J	**120** J
Benzo(b)fluoranthene	3,200	3,600	**700**	**820**	950 U	NA	**290**	**3,000**	**320**	**170**	**160**	2,000 U	**120** J	**300**	**230**	**110** J	**100** J	**1,800** J	**290**
Benzo(g,h,i)perylene	670	720	**170**	**130**	950 U	NA	**150**	**330**	**63**	**45**	54 U	2,000 U	**91** J	130 U	210 U	**200**	200 U	**1,200** J	**160**
Benzo(k)fluoranthene	3,200	3,600	**560**	**520**	950 U	NA	**210**	**1,900**	**270**	**110**	**100**	2,000 U	**120** J	**230**	210 U	**110** J	200 U	**1,400** J	**120**
Chrysene	1,400	2,800	**540**	**750**	950 U	NA	**280**	**2,900**	**360**	**140**	**130**	2,000 U	**210** J	**220**	220 U	**130** J	**140** J	**2,300**	**220**
Dibenz(a,h)anthracene	230	230	160 U	56 U	950 U	NA	96 U	**87**	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Fluoranthene	1,700	2,500	**1,500**	**1,700**	**1,000**	NA	**400**	**10,000**	**640**	**180**	**180**	2,000 U	**350** J	**340**	**390**	**150** J	**200**	**3,800**	**180**
Indeno(1,2,3-cd)pyrene	600	690	160 U	**140**	950 U	NA	**86** J	**460**	61 U	36 U	54 U	2,000 U	**80** J	130 U	210 U	200 U	200 U	**920** J	**130**
Pyrene	2,600	3,300	**900**	**1,600**	**1,700**	NA	**370**	**7,200**	**700**	**190**	**150**	2,000 U	**210** J	**240**	**290**	**160** J	**200**	**3,200**	**140**
Total HPAH	12,000	17,000	**5,000**	**6,600**	**2,700**	NA	**2,046** J	**30,577**	**2,693**	**984**	**820**	2,000 U	**1,431** J	**1,600**	**910**	**970** J	**640** J	**17,320** J	**1,438** J
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**48,000**	**8,300**	**18,000**	NA	**4,200**	**3,300**	**4,400**	**980**	**2,800**	**18,000**	**1,000** J	**1,600**	**7,800**	**1,400**	**2,000**	**20,000**	**900**
Butylbenzylphthalate	63	900	**37,000**	**410**	950 U	NA	**190**	**270**	**280**	**60**	**8,100**	2,000 U	**520** J	**200**	210 U	**910**	**150** J	**1,300** J	**140**
Diethylphthalate	200		160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	**61**	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Dimethylphthalate	71	160	160 U	**540**	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	**100** J	1,600 U	120 U
Di-n-butylphthalate	1,400	1,400	**440**	**61**	950 U	NA	96 U	**120**	**68**	36 U	**130**	2,000 U	75 U	**37,000** B	370 U	200 U	200 U	**3,600**	120 U
Di-n-octyl phthalate	6,200		**1,300**	**760**	**3,200**	NA	96 U	**210**	**360**	**73**	**280**	2,000 U	75 U	130 U	210 U	200 U	**150** J	**1,600**	120 U
PCBs (ug/kg dw)																			
Aroclor 1016			77 Y	130 U	170 U	58 U	100 U	130 U	20 U	20 U	20 U	58 U	19 U	59 U	20 U	98 U	20 U	20 U	19 U
Aroclor 1221			39 Y	130 U	170 U	58 U	100 U	130 U	20 U	20 U	20 U	58 U	19 U	120 Y	20 U	98 U	20 U	20 U	19 U
Aroclor 1232			190 Y	130 U	170 U	58 U	100 U	130 U	20 U	20 U	20 U	58 U	19 U	59 U	20 U	98 U	20 U	20 U	19 U
Aroclor 1242			190 Y	130 U	170 U	58 U	100 U	130 U	20 U	20 U	20 U	58 U	19 U	59 U	20 U	98 U	20 U	89 Y	19 U
Aroclor 1248			96 Y	130 U	170 U	58 U	100 U	130 U	**29**	20 U	**20** J	58 U	**28**	59 U	20 U	98 U	20 U	79 Y	19 U
Aroclor 1254			290 Y	**11,000**	**1,100**	**210**	**230**	**1,800**	**74**	20 U	**62**	58 U	**66**	**100**	**48** J	98 U	**110**	**350** J	**43**
Aroclor 1260			120 Y	**6,500**	**1,200**	**190**	**160**	**1,100**	**57**	20 U	**51**	58 U	**64** J	**150**	**74**	98 U	**79**	120 Y	19 U
Total PCBs	130	1,000	290 Y	**17,500**	**2,300**	**400**	**390**	**2,900**	**160**	20 U	**133** J	58 U	**158** J	**250**	**122** J	98 U	**189**	**350** J	**43**
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
1,2-Dichlorobenzene	35	50	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
1,3-Dichlorobenzene			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
1,4-Dichlorobenzene	110	110	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
1-Methylnaphthalene							96 U												
2,2'-Oxybis(1-chloropropane)			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
2,4,5-Trichlorophenol			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
2,4,6-Trichlorophenol			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
2,4-Dichlorophenol			470 U	170 U	4,700 U	NA	480 U	160 U	180 U	110 U	160 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
2,4-Dimethylphenol[a]	29	29	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	**200**	1,600 U	120 U
2,4-Dinitrophenol			1,600 U	560 U	9,500 U	NA	960 U	540 U	610 U	360 U	540 U	20,000 U	750 U	1,300 U	2,100 U	2,000 U	2,000 U	16,000 U	1,200 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB36	RCB37	RCB37	RCB37	RCB37	RCB38	RCB39	RCB40	RCB41	ROW24	RCB43	RCB44	RCB45	RCB49	RCB50	RCB51	RCB52
Lab Ref			GU49	GU49	ME86	OL20	QL09	GU49	GU49	GU49	GU49	HP36	HR76	HY59	HY59	IS72	JB06	JC82	JE72
Sewer Type[c]			SD	SD	SD	RCB	SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	SW Dakota St SD/ditch	2nd Ave S SD	2nd Ave S SD	CS	I-5 SD at Slip 4	Diagonal Ave S CSO/SD	SW Kenny St SD/T115 CSO
Date	SQS	CSL	06/30/04	06/30/04	01/10/08	02/04/09	02/23/10	06/30/04	06/30/04	06/30/04	06/30/04	01/14/05	02/04/05	04/13/05	04/13/05	11/08/05	02/10/06	03/02/06	03/26/06
Total solids (%)			58.7	70.3	52	NA	68.5	73.0	73.2	90.9	55.5	75.8	69.0	69.1	65.6	75.2	80.5	45.5	83
2,4-Dinitrotoluene			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	**29,000**	1,000 U	980 U	980 U	7,800 U	590 U
2,6-Dinitrotoluene			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	**490** J	1,000 U	980 U	980 U	7,800 U	590 U
2-Chloronaphthalene			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
2-Chlorophenol			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
2-Methylnaphthalene	670	670	**300**	56 U	950 U	NA	96 U	**360**	61 U	36 U	**180**	**4,200**	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
2-Methylphenol[a]	63	63	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
2-Nitroaniline			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
2-Nitrophenol			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
3,3'-Dichlorobenzidine			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
3-Nitroaniline			940 U	330 U	4,700 U	NA	480 U	320 U	370 U	220 U	320 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
4,6-Dinitro-2-methylphenol			1,600 U	560 U	9,500 U	NA	960 U	540 U	610 U	360 U	540 U	20,000 U	750 U	1,300 U	2,100 U	2,000 U	2,000 U	16,000 U	1,200 U
4-Bromophenyl-phenylether			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
4-Chloro-3-methylphenol			310 U	110 U	4,700 U	NA	480 U	110 U	120 U	72 U	110 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
4-Chloroaniline			470 U	170 U	4,700 U	NA	480 U	160 U	180 U	110 U	160 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
4-Chlorophenyl-phenylether			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
4-Methylphenol[a]	670	670	**5,500**	**370**	950 U	NA	60 J	**250**	61 U	36 U	**72**	2,000 U	75 U	130 U	210 U	200 U	**200**	1,600 U	120 U
4-Nitroaniline			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
4-Nitrophenol			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
Benzoic acid[a]	650	650	**3,300**	560 U	9,500 U	NA	960 UJ	540 U	610 U	360 U	540 U	20,000 U	750 U	1,300 U	2,100 U	2,000 U	2,000 U	16,000 U	1,200 U
Benzyl alcohol[a]	57	73	**750**	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
bis(2-Chloroethoxy) methane			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Bis-(2-chloroethyl) ether			310 U	110 U	950 U	NA	96 U	110 U	120 U	72 U	110 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Carbazole			160 U	**110**	950 U	NA	96 U	**1,400**	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Dibenzofuran	540	540	160 U	56 U	950 U	NA	96 U	**830**	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Hexachlorobenzene	22	70	**170**	56 U	950 U	NA	96 U	54 U	61 U	36 U	**460**	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Hexachlorobutadiene	11	120	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Hexachlorocyclopentadiene			780 U	280 U	4,700 U	NA	480 U	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
Hexachloroethane			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Isophorone			**190**	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
Nitrobenzene			160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	130 U	210 U	200 U	200 U	1,600 U	120 U
n-Nitroso-di-n-propylamine			310 U	110 U	4,700 U	NA	480 U	110 U	120 U	72 U	110 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
N-Nitrosodiphenylamine	28	40	160 U	56 U	950 U	NA	96 U	54 U	61 U	36 U	54 U	2,000 U	75 U	**24,000**	210 U	200 U	200 U	1,600 U	120 U
Pentachlorophenol[a]	360	690	780 U	280 U	4,700 U	NA	480 UJ	270 U	310 U	180 U	270 U	10,000 U	380 U	650 U	1,000 U	980 U	980 U	7,800 U	590 U
Phenol[a]	420	1,200	**640**	56 U	950 U	NA	**61** J	**100**	61 U	36 U	54 U	2,000 U	75 U	**130**	210 U	200 U	200 U	1,600 U	**110** J

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB53	RCB54	RCB55	RCB56	RCBSTEV1	RCBSTEV2	RCBSTEV3	RCBSTEV4	RCB100	RCB-D071041	RCB-D071039	RCB101	RCB102	RCB103	RCB104	RCB105	RCB106
Lab Ref			JE72	JE72	JE72	JK52	HA19	HA19	HA19	HA19	KF45	KL66	KL66	KR27	KT17/KT20	KT17/KT20	KT17/KT20	KT17/KT20	KT17/KT20
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	KCIA SD#2/PS4 5 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	I-5 SD at Slip 4	I-5 SD at Slip 4	CS	Georgetown flume	Georgetown flume	Georgetown flume	Georgetown flume	Georgetown flume
Date	SQS	CSL	03/26/06	03/26/06	03/26/06	05/31/06	08/31/04	08/31/04	08/31/04	08/31/04	11/14/06	01/18/07	01/18/07	03/14/07	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07
Total solids (%)			66	70.6	82.2	51.3	NA	NA	NA	NA	72.7	84.7	86.9	63.7	65.7	89.9	81.9	93.5	78
Metals (mg/kg DW)																			
Arsenic	57	93	**11**	**10**	**7**	8 U	NA	NA	NA	NA	7 U	**20**	**8**	7 U	NA	NA	NA	NA	NA
Copper	390	390	**99.0**	**55.4**	**35.9**	**84.7**	NA	NA	NA	NA	**66.9**	**59.4**	**720**	**50.6**	NA	NA	NA	NA	NA
Lead	450	530	**402**	**24**	**11**	**70**	NA	NA	NA	NA	**28**	**80**	**118**	**22**	NA	NA	NA	NA	NA
Mercury	0.41	0.59	**0.09**	0.06 U	0.05 U	**0.14**	NA	NA	NA	NA	0.05 U	0.04 U	0.05 U	0.05 U	NA	NA	NA	NA	NA
Zinc	410	960	**635**	**260**	**77.8**	**329**	NA	NA	NA	NA	**174**	**276**	**242**	**237**	NA	NA	NA	NA	NA
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		**330**	**210**	**91**	**970**	NA	NA	NA	NA	**3,800**	**58**	**88**	730 U	NA	NA	NA	NA	NA
TPH-oil	2,000[b]		**1,700**	**1,200**	**630**	**6,100**	NA	NA	NA	NA	**9,500**	**400**	**720**	**4,100**	NA	NA	NA	NA	NA
LPAH (ug/kg DW)																			
Acenaphthene	500	500	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Acenaphthylene	1,300	1,300	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Anthracene	960	960	**530**	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Fluorene	540	540	**290** J	430 U	120 U	560 U	NA	NA	NA	NA	**420**	43 U	37 U	220 U	NA	NA	NA	NA	NA
Naphthalene	2,100	2,100	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Phenanthrene	1,500	1,500	**2,500**	**400** J	120 U	**1,900**	NA	NA	NA	NA	**680**	**48**	**19** J	**180** J	NA	NA	NA	NA	NA
Total LPAH	5,200	5,200	**3,320** J	**400** J	**120**	**1,900**	NA	NA	NA	NA	**1,100**	**48**	**19** J	**180** J	NA	NA	NA	NA	NA
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	**2,400**	430 U	120 U	**1,600**	NA	NA	NA	NA	300 U	**36** J	37 U	220 U	NA	NA	NA	NA	NA
Benzo(a)pyrene	1,600	1,600	**2,900**	430 U	120 U	**1,500**	NA	NA	NA	NA	300 U	**38** J	37 U	220 U	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	3,200	3,600	**5,700**	430 U	120 U	**1,900**	NA	NA	NA	NA	300 U	**62**	**32** J	220 U	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	670	720	**3,500**	430 U	120 U	**1,100**	NA	NA	NA	NA	300 U	**32** J	37 U	220 U	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	3,200	3,600	**3,300**	430 U	120 U	**1,500**	NA	NA	NA	NA	300 U	**23** J	37 U	220 U	NA	NA	NA	NA	NA
Chrysene	1,400	2,800	**4,900**	**270** J	120 U	**2,100**	NA	NA	NA	NA	300 U	**49**	**28** J	**310**	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	230	230	**620**	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Fluoranthene	1,700	2,500	**5,700**	**460**	120 U	**4,500**	NA	NA	NA	NA	300 U	**110**	**44**	**470**	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	690	**3,300**	430 U	120 U	**760**	NA	NA	NA	NA	300 U	**24** J	37 U	220 U	NA	NA	NA	NA	NA
Pyrene	2,600	3,300	**4,200**	**370** J	120 U	**3,400**	NA	NA	NA	NA	**350**	**120**	**36** J	**380**	NA	NA	NA	NA	NA
Total HPAH	12,000	17,000	**36,520**	**1,100** J	120 U	**18,360**	NA	NA	NA	NA	350 U	**494** J	**140** J	**1,160**	NA	NA	NA	NA	NA
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**3,800**	**1,100**	**190**	13,000 U	NA	NA	NA	NA	**6,200**	**360**	**300**	**2,500**	NA	NA	NA	NA	NA
Butylbenzylphthalate	63	900	**510**	**1,100**	120 U	560 U	NA	NA	NA	NA	300 U	**250**	37 U	**920**	NA	NA	NA	NA	NA
Diethylphthalate	200		460	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Dimethylphthalate	71	160	460 U	430 U	120 U	**710**	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Di-n-butylphthalate	1,400	1,400	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Di-n-octyl phthalate	6,200		**460**	430 U	120 U	**1,300**	NA	NA	NA	NA	**240**	**28** J	**23** J	**120** J	NA	NA	NA	NA	NA
PCBs (ug/kg dw)																			
Aroclor 1016			20 U	20 U	20 U	19 U	1,600 U	420 U	19 U	1,100 U	20 U	9 U	4 U	98 U	98 U	20 U	19 U	20 U	40
Aroclor 1221			20 U	20 U	20 U	19 U	1,600 U	420 U	19 U	1,100 U	20 U	9 U	4 U	98 U	98 U	20 U	19 U	20 U	40
Aroclor 1232			20 U	20 U	20 U	19 U	1,600 U	420 U	19 U	1,100 U	39 Y	9 U	4 U	98 U	98 U	20 U	19 U	20 U	40
Aroclor 1242			20 U	20 U	20 U	19 U	1,600 U	420 U	19 U	1,100 U	20 U	9 U	4 U	98 U	98 U	20 U	19 U	20 U	40
Aroclor 1248			39 Y	20 U	20 U	19 U	1,600 U	420 U	19 U	1,100 U	20 U	9 U	4 U	98 U	98 U	20 U	19 U	20 U	40
Aroclor 1254			**58**	20 U	20 U	19 U	**9,000**	**1,500**	**130**	**12,000**	**23**	**16**	**9**	98 U	140 Y	20 U	19 U	20 U	94
Aroclor 1260			39 Y	20 U	20 U	19 U	**8,000**	**1,100**	**71**	**11,000**	20 U	**12**	**9**	**310**	**270**	**45**	**33**	**34**	**150**
Total PCBs	130	1,000	**58**	20 U	20 U	19 U	**17,000**	**2,600**	**201**	**23,000**	**23**	**28**	**19**	**310**	**270**	**45**	**33**	**34**	**150**
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	35	50	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	110	110	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2,4-Dichlorophenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2,4-Dimethylphenol[a]	29	29	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
2,4-Dinitrophenol			4,600 U	4,300 U	1,200 U	5,600 U	NA	NA	NA	NA	3,000 U	430 U	370 U	2,200 U	NA	NA	NA	NA	NA

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB53	RCB54	RCB55	RCB56	RCBSTEV1	RCBSTEV2	RCBSTEV3	RCBSTEV4	RCB100	RCB-D071041	RCB-D071039	RCB101	RCB102	RCB103	RCB104	RCB105	RCB106
Lab Ref			JE72	JE72	JE72	JK52	HA19	HA19	HA19	HA19	KF45	KL66	KL66	KR27	KT17/KT20	KT17/KT20	KT17/KT20	KT17/KT20	KT17/KT20
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
Outfall			SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	SW Kenny St SD/T115 CSO	KCIA SD#2/PS4 5 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	I-5 SD at Slip 4	I-5 SD at Slip 4	CS	Georgetown flume	Georgetown flume	Georgetown flume	Georgetown flume	Georgetown flume
Date	SQS	CSL	03/26/06	03/26/06	03/26/06	05/31/06	08/31/04	08/31/04	08/31/04	08/31/04	11/14/06	01/18/07	01/18/07	03/14/07	03/30/07	03/30/07	03/30/07	03/30/07	03/30/07
Total solids (%)			66	70.6	82.2	51.3	NA	NA	NA	NA	72.7	84.7	86.9	63.7	65.7	89.9	81.9	93.5	78
2,4-Dinitrotoluene			2,300	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2,6-Dinitrotoluene			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2-Chloronaphthalene			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
2-Chlorophenol			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
2-Methylnaphthalene	670	670	460 U	430 U	120 U	560 U	NA	NA	NA	NA	**290** J	43 U	370 U	220 U	NA	NA	NA	NA	NA
2-Methylphenol[a]	63	63	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
2-Nitroaniline			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
2-Nitrophenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
3-Nitroaniline			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol			4,600 U	4,300 U	1,200 U	5,600 U	NA	NA	NA	NA	3,000 U	430 U	370 U	2,200 U	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
4-Chloroaniline			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether			460	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
4-Methylphenol[a]	670	670	**240** J	**320** J	120 U	560 U	NA	NA	NA	NA	**180** J	43 U	37 U	**690**	NA	NA	NA	NA	NA
4-Nitroaniline			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
4-Nitrophenol			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
Benzoic acid[a]	650	650	4,600 U	4,300 U	1,200 U	5,600 U	NA	NA	NA	NA	3,000 U	430 U	370 U	2,200 U	NA	NA	NA	NA	NA
Benzyl alcohol[a]	57	73	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	**480**	NA	NA	NA	NA	NA
bis(2-Chloroethoxy) methane			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Bis-(2-chloroethyl) ether			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Carbazole			**580**	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Dibenzofuran	540	540	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Hexachlorobenzene	22	70	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Hexachlorobutadiene	11	120	460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
Hexachloroethane			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Isophorone			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Nitrobenzene			460 U	430 U	120 U	560 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
n-Nitroso-di-n-propylamine			2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	28	40	460 U	430 U	120 U	560 U	NA	NA	NA	NA	340 U	43 U	37 U	220 U	NA	NA	NA	NA	NA
Pentachlorophenol[a]	360	690	2,300 U	2,100 U	600 U	2,800 U	NA	NA	NA	NA	1,500 U	220 U	190 U	1,100 U	NA	NA	NA	NA	NA
Phenol[a]	420	1,200	460 U	430 U	120 U	640 U	NA	NA	NA	NA	300 U	43 U	37 U	220 U	NA	NA	NA	NA	NA

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB107	RCB108	RCB109	RCB109	RCB110	RCB110	RCB111	RCB112	RCB113	RCB114	RCB115	RCB116	RCB117	RCB118	RCB119	RCB120	RCB121
Lab Ref			KT17/KT20	KT17/KT20	LB02/LA95	RH70	LB02/LA95	QZ56	LG49	LG49	LG49	LG49	LG49	LY60	LY60	LY60	LY60	LY60	ME25
Sewer Type[c]			SD	SD	SD	SD	SD	SD	CS	CS	CS	CS	CS	SD	SD	SD	CS	CS	SD
Outfall			Georgetow n flume	Georgetow n flume	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	CS	CS	CS	CS	CS	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF
Date	SQS	CSL	03/30/07	03/30/07	05/25/07	08/09/10	05/25/07	06/07/10	07/09/07	07/09/07	07/09/07	07/09/07	07/09/07	11/16/07	11/16/07	11/16/07	11/16/07	11/16/07	01/04/08
Total solids (%)			76.2	84.4	52.1	56.1	72.1	59.8	42.0	58.1	90.2	91.2	93.2	54.3	56.7	70.7	70.4	68.5	81.5
Metals (mg/kg DW)																			
Arsenic	57	93	NA	NA	**16**	8 U	**9**	**14**	10 U	9 U	**6**	**7**	**5**	8 U	8 U	7 U	**8**	7 U	6
Copper	390	390	NA	NA	**254**	**124**	**141**	**154**	**119**	**137**	**150**	**140**	**86.5**	**44.2**	**40.3**	**53.2**	**28.9**	**38**	**34.8**
Lead	450	530	NA	NA	**547**	**91**	**115**	**135**	**179**	**130**	**109**	**112**	**91**	**36**	**30**	**20**	**41**	**37**	**29**
Mercury	0.41	0.59	NA	NA	**1.46**	**0.11**	**0.13**	**0.15**	**0.1**	**0.11**	**0.1**	**0.07**	**0.1**	0.06 U	0.07 U	0.05 U	0.05 U	0.06 U	0.04
Zinc	410	960	NA	NA	**655**	**452**	**592**	**630**	**468**	**574**	**593**	**346**	**332**	**161**	**135**	**73**	**86**	**96**	**128**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		NA	NA	**5,800**	**680**	690 U	**330**	**290**	**1,800**	**330**	**350**	**310**	**180**	**120**	64 U	64 U	**160**	**220**
TPH-oil	2,000[b]		NA	NA	**18,000**	**3,900**	**4,600**	3,100 U	**2,000**	**8,000**	**2,400**	**2,300**	**2,300**	**1,500**	**1,100**	**620**	**360**	**1,000**	**1,600**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	NA	NA	**790** J	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Acenaphthylene	1,300	1,300	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Anthracene	960	960	NA	NA	820 U	**140** J	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Fluorene	540	540	NA	NA	**1,200**	**120** J	140 U	**160**	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Naphthalene	2,100	2,100	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Phenanthrene	1,500	1,500	NA	NA	**3,000**	**540**	**120** J	210 U	**240**	310 U	**290**	**310**	**270**	**100**	59 U	**66**	60 U	59 U	**88**
Total LPAH	5,200	5,200	NA	NA	**4,990** J	**800** J	**120** J	**160**	**240**	310 U	**290**	**310**	**270**	**100**	**59**	**66**	60 U	59 U	**88**
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	NA	NA	**630** J	**140** J	**130** J	**130** J	**200**	310 U	**250**	**200**	**220**	60 U	59 U	60 U	60 U	59 U	60
Benzo(a)pyrene	1,600	1,600	NA	NA	820 U	**230**	**170**	**300**	**240**	310 U	**300**	**210**	**260**	60 U	59 U	60 U	60 U	59 U	60
Benzo(b)fluoranthene	3,200	3,600	NA	NA	**610** J	**300**	**280**	**340**	**330**	310 U	**490**	**380**	**360**	**73**	59 U	60 U	60 U	59 U	**90**
Benzo(g,h,i)perylene	670	720	NA	NA	820 U	170 J	**150**	**300**	**140**	310 U	**220**	**150**	**170**	**60** U	59 U	60 U	60 U	59 U	60
Benzo(k)fluoranthene	3,200	3,600	NA	NA	**780** J	**300**	**320**	**340** J	**230**	310 U	**280**	**230**	**280**	60 U	**84**	60 U	60 U	59 U	60
Chrysene	1,400	2,800	NA	NA	**1,400**	**560**	**310**	**510**	**330**	**380**	**450**	**640**	**360**	**93**	**82**	60 U	60 U	59 U	**110**
Dibenz(a,h)anthracene	230	230	NA	NA	820 U	**57** J	140 U	160 U	72 U	310 U	110 U	110 U	100 U	**60** U	59 U	60 U	60 U	59 U	60
Fluoranthene	1,700	2,500	NA	NA	**2,500**	**870**	**350**	520 U	**520**	**440**	**590**	**580**	**490**	140	**110**	**100**	60 U	**68**	**190**
Indeno(1,2,3-cd)pyrene	600	690	NA	NA	820 U	**120** J	**86** J	160 U	**110**	310 U	**140**	**120**	**120**	**60** U	**59** U	60 U	60 U	59 U	60
Pyrene	2,600	3,300	NA	NA	**2,400**	**970**	**470**	**470**	**430**	**450**	**660**	**520**	**490**	**190**	**90**	**69**	60 U	**62**	**170**
Total HPAH	12,000	17,000	NA	NA	**8,320** J	**3,717** J	**2,266** J	**2,390** J	**2,530**	**1,270**	**3,380**	**3,030**	**2,750**	**496**	**366**	**169**	60 U	**130**	**560**
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	NA	NA	**21,000**	**8,200** B	**2,100**	**3,200** B	**5,700**	**5,900**	**25,000**	**3,400**	**5,100**	**2,700**	**1,600**	**660**	**290**	**620**	**1,500**
Butylbenzylphthalate	63	900	NA	NA	820 U	190 U	**95** J	250	**3,800**	310 U	**890**	**380**	**510**	**640**	**6,100**	60 U	60 U	59 U	**110**
Diethylphthalate	200		NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	**60** U	59 U	60 U	60 U	59 U	60
Dimethylphthalate	71	160	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	**350**	110 U	100 U	**60** U	59 U	60 U	60 U	59 U	60
Di-n-butylphthalate	1,400	1,400	NA	NA	**880**	190 U	**4,800**	160 U	72 U	310 U	**220**	110 U	**110**	60 U	59 U	60 U	60 U	59 U	60
Di-n-octyl phthalate	6,200		NA	NA	**620** J	**670** J	**100** J	**18,000**	**290**	**380**	**230**	110 U	**190**	140	59 U	60 U	60 U	59 U	**100**
PCBs (ug/kg dw)																			
Aroclor 1016		U	97 U	20 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1221		U	97 U	20 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1232		U	97 U	20 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1242		U	97 U	20 U	200 U	20 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1248		U	97 U	20 U	**400**	64	**28**	30 Y	39 Y	39 Y	79 Y	**32**	**48**	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1254		Y	**160**	**32**	**760**	**99**	**65**	**60**	**65**	**55**	**130**	**72**	**100**	20 U	19 U	19 U	20 U	20 U	20
Aroclor 1260			**410**	**33**	**490**	**48**	**110**	**98**	**63**	**60**	**120**	**47**	**130**	20 U	19 U	19 U	20 U	20 U	20
Total PCBs	130	1,000	**570**	**65**	**1,650**	**147**	**203**	**158**	**128**	**115**	**250**	**151**	**278**	20 U	19 U	19 U	20 U	20 U	20
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
1,2-Dichlorobenzene	35	50	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
1,3-Dichlorobenzene			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
1,4-Dichlorobenzene	110	110	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
1-Methylnaphthalene						**150** J		160 U											
2,2'-Oxybis(1-chloropropane)			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2,4,5-Trichlorophenol			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2,4,6-Trichlorophenol			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2,4-Dichlorophenol			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2,4-Dimethylphenol[a]	29	29	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2,4-Dinitrophenol			NA	NA	8,200 U	1,900 UJ	1,400 U	1,600 U	720 U	3,100 U	1,100 U	1,100 U	1,000 U	600 U	590 U	600 U	600 U	590 U	600

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB107	RCB108	RCB109	RCB109	RCB110	RCB110	RCB111	RCB112	RCB113	RCB114	RCB115	RCB116	RCB117	RCB118	RCB119	RCB120	RCB121
Lab Ref			KT17/KT20	KT17/KT20	LB02/LA95	RH70	LB02/LA95	QZ56	LG49	LG49	LG49	LG49	LG49	LY60	LY60	LY60	LY60	LY60	ME25
Sewer Type[c]			SD	SD	SD	SD	SD	SD	CS	CS	CS	CS	CS	SD	SD	SD	CS	CS	SD
Outfall			Georgetow n flume	Georgetow n flume	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	CS	CS	CS	CS	CS	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF
Date	**SQS**	**CSL**	03/30/07	03/30/07	05/25/07	08/09/10	05/25/07	06/07/10	07/09/07	07/09/07	07/09/07	07/09/07	07/09/07	11/16/07	11/16/07	11/16/07	11/16/07	11/16/07	01/04/08
Total solids (%)			76.2	84.4	52.1	56.1	72.1	59.8	42.0	58.1	90.2	91.2	93.2	54.3	56.7	70.7	70.4	68.5	81.5
2,4-Dinitrotoluene			NA	NA	4,100 U	950 U	**6,400**	**9,300**	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2,6-Dinitrotoluene			NA	NA	4,100 U	950 U	700 U	**310** J	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2-Chloronaphthalene			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2-Chlorophenol			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2-Methylnaphthalene	670	670	NA	NA	**1,300**	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2-Methylphenol[a]	63	63	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
2-Nitroaniline			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
2-Nitrophenol			NA	NA	4,100 U	190 U	700 U	160 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
3,3'-Dichlorobenzidine			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
3-Nitroaniline			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
4,6-Dinitro-2-methylphenol			NA	NA	8,200 U	1,900 U	1,400 U	1,600 U	720 U	3,100 U	1,100 U	1,100 U	1,000 U	600 U	590 U	600 U	600 U	590 U	600
4-Bromophenyl-phenylether			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
4-Chloro-3-methylphenol			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
4-Chloroaniline			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
4-Chlorophenyl-phenylether			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
4-Methylphenol[a]	670	670	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	**68**	**520**	**230**	**160**	59 U	**75**
4-Nitroaniline			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
4-Nitrophenol			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	**300** U	**300** U	**300** U	**300** U	300 U	300
Benzoic acid[a]	650	650	NA	NA	8,200 U	1,900 U	1,400 U	1,600 U	720 U	3,100 U	1,100 U	1,100 U	1,000 U	600 U	730	600 U	600 U	590 U	600
Benzyl alcohol[a]	57	73	NA	NA	820 U	190 UJ	140 U	160 U	**1,100**	310 U	110 U	110 U	100 U	60 U	110	60 U	60 U	59 U	60
bis(2-Chloroethoxy) methane			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Bis-(2-chloroethyl) ether			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Carbazole			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Dibenzofuran	540	540	NA	NA	**450** J	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Hexachlorobenzene	22	70	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Hexachlorobutadiene	11	120	NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Hexachlorocyclopentadiene			NA	NA	4,100 U	950 UJ	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
Hexachloroethane			NA	NA	820 U	190 U	140 U	**160**	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Isophorone			NA	NA	820 U	190 U	140 U	**160**	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Nitrobenzene			NA	NA	820 U	190 U	140 U	160 U	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
n-Nitroso-di-n-propylamine			NA	NA	4,100 U	950 U	700 U	780 U	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
N-Nitrosodiphenylamine	28	40	NA	NA	1,300 Y	190 U	**4,900**	**14,000**	72 U	310 U	110 U	110 U	100 U	60 U	59 U	60 U	60 U	59 U	60
Pentachlorophenol[a]	360	690	NA	NA	4,100 U	950 UJ	700 U	**780**	360 U	1,500 U	570 U	540 U	520 U	300 U	300 U	300 U	300 U	300 U	300
Phenol[a]	420	1,200	NA	NA	820 U	190 U	140 U	**160**	**91**	310 U	110 U	110 U	100 U	60 U	**100**	60 U	60 U	59 U	60

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. TCLP analysis
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB122	RCB123	RCB124	RCB125D	RCB126	RCB127	RCB128	RCB129	RCB130	RCB131	RCB132	RCB136	RCB137	RCB139	RCB141	RCB142	RCB143
Lab Ref			ME25	ME25	ME33	ME86	ME86	ME86	MF62	MF62	MF62	MJ15	MM72	MP02	MP02	MU58	MW66	MX98	MX98
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD
Outfall			Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	2nd Ave S SD	7th Ave S SD	Norfolk CSO/SD/P S17 EOF	7th Ave S SD	7th Ave S SD	Hamm Cr	7th Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	SQS	CSL	01/04/08	01/04/08	01/07/08	01/10/08	01/10/08	01/10/08	01/18/08	01/18/08	01/18/08	02/15/08	03/12/08	03/25/08	03/25/08	05/01/08	05/14/08	05/23/08	05/23/08
Total solids (%)			85.7	76.0	48.3	50.6	30.7	21.9	52.1	74.2	76.6	61.1	76.3	52.4	80.0	50.4	73.3	68.3	80.0
Metals (mg/kg DW)																			
Arsenic	57	93 U	10 U	6 U	10 U	**10**	**4.8**	**4.4**	**30**	**5.4**	**7**	**50**	**8.5**	**5.6**	6 U	**50**	6 U	**7.7**	10 U
Copper	390	390	**52.6**	**54.9**	**80.9**	**115**	**153**	**127**	**207**	**135**	**42.4**	**166**	**701**	**21**	**9**	**383**	**224**	**153**	**60.3**
Lead	450	530	**40**	**21**	**63**	**82**	**74**	**65**	**204**	**54**	**122**	**548**	**110**	**120**	**4**	**3,690**	**30**	**98**	**17**
Mercury	0.41	0.59 U	0.04 U	0.05 U	0.08 U	**0.11**	**0.2**	0.2 U	**0.13**	0.05 U	0.05 U	**0.11**	0.06 U	0.08 U	0.05 U	**1.08**	0.05 U	**0.07**	0.05 U
Zinc	410	960	**93**	**233**	**530**	**459**	**793**	**674**	**774**	**3,650**	**144**	**827**	**1,650**	**82**	**123**	**663**	**282**	**258**	**124**
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		56 U	**59**	**210**	NA	NA	NA	**2,000**	**1,300**	**49**	**360**	**1,500**	**35**	**230**	**2,400**	**420**	**4,600**	**120**
TPH-oil	2,000[b]		**570**	**740**	**1,800**	NA	NA	NA	**7,800**	**4,200**	**450**	**2,200**	**6,300**	**190**	**1,200**	**7,700**	**3,000**	**20,000**	**780**
LPAH (ug/kg DW)																			
Acenaphthene	500	500 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Acenaphthylene	1,300	1,300 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Anthracene	960	960 U	60 U	59 U	90 U	910 U	650 U	660 U	**2,900**	250 U	59 U	**160**	350 U	20 U	34 U	**220**	**43** J	**290**	**22** J
Fluorene	540	540 U	60 U	59 U	90 U	910 U	650 U	660 U	**1,100**	250 U	59 U	60 U	350 U	20 U	34 U	**400**	59 U	**180**	39 U
Naphthalene	2,100	2,100 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	**530**	**35** J
Phenanthrene	1,500	1,500	**72**	**90**	90 U	910 U	650 U	660 U	**2,400**	**310**	**200**	**700**	350 U	20 U	34 J	**300**	**200**	**510**	**110**
Total LPAH	5,200	5,200	**72**	**90**	90 U	910 U	650 U	660 U	**6,400**	**310**	**200**	**860**	350 U	20 U	**34** J	**920**	**243** J	**1,510**	**167** J
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600 U	60 U	**71**	90 U	910 U	650 U	660 U	**720**	250 U	**130**	**1,200**	350 U	20 U	34 U	**320**	**140**	**180**	**57**
Benzo(a)pyrene	1,600	1,600 U	60 U	**90**	90 U	910 U	650 U	660 U	**580**	250 U	**150**	**2,200**	350 U	20 U	34 U	**400**	**150**	**130** J	**58**
Benzo(b)fluoranthene	3,200	3,600	60 U	**150**	**110**	910 U	650 U	660 U	**1,200**	250 U	**200**	**2,800**	350 U	20 U	34 U	**430**	**190**	**150**	**110**
Benzo(g,h,i)perylene	670	720 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	**68**	**800**	350 U	20 U	34 U	**250**	**94**	140 U	**22** J
Benzo(k)fluoranthene	3,200	3,600 U	60 U	**84**	90 U	910 U	650 U	660 U	**850**	250 U	**190**	**2,300**	350 U	20 U	**41**	**510**	**220**	**220**	**75**
Chrysene	1,400	2,800	60 U	**100**	**91**	910 U	650 U	**670**	**1,500**	**270**	**220**	**1,600**	350 U	**21**	**58**	**810**	**290**	**140** J	**110**
Dibenz(a,h)anthracene	230	230 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	**440**	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Fluoranthene	1,700	2,500	**130**	**220**	**130**	**1,000**	**1,000**	**1,100**	**3,400**	**980**	**380**	**2,500**	350 U	**28** J	**58** J	**1,100**	**420**	**360**	**190**
Indeno(1,2,3-cd)pyrene	600	690 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	**1,000**	350 U	20 U	34 U	220 U	**50** J	140 U	39 U
Pyrene	2,600	3,300	**100**	**170**	**130**	**1,100**	**1,100**	**1,200**	**3,000**	**730**	**320**	**1,600**	350 U	**29**	**100**	**1,200**	**380**	**420**	**160**
Total HPAH	12,000	17,000	**230**	**885**	**461**	**2,100**	**2,100**	**2,970**	**11,250**	**1,980**	**1,658**	**16,440**	350 U	**78** J	**257** J	**5,020**	**1,934** J	**1,600** J	**782** J
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**300**	**480**	**1,300**	**15,000**	**11,000**	**20,000**	**15,000**	**3,600**	**420**	**310**	**4,200** B	**200**	**2,700**	**16,000**	**3,500**	**7,200**	**670**
Butylbenzylphthalate	63	900	60 U	**790**	90 U	910 U	1,400 U	660 U	370 U	**250**	**4,400**	**130**	**540**	20 U	**170**	**3,400**	**360**	140 U	**120**
Diethylphthalate	200	U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Dimethylphthalate	71	160 U	60 U	59 U	90 U	910 U	650 U	660 U	**1,000**	250 U	59 U	60 U	350 U	20 U	34 U	220 U	**730**	140 U	39 U
Di-n-butylphthalate	1,400	1,400 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	**52** J	**180**	**53**
Di-n-octyl phthalate	6,200		60 U	59 U	90 U	**1,600**	1,300 U	**2,000**	**2,900**	250 U	59 U	60 U	350 U	20 U	**52**	**940**	**270**	**500**	**160**
PCBs (ug/kg dw)																			
Aroclor 1016		U	20 U	19 U	20 U	160 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	340 U	20 U	20 U	20 U
Aroclor 1221		U	20 U	19 U	20 U	160 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	340 U	20 U	20 U	20 U
Aroclor 1232		U	20 U	19 U	20 U	160 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	340 U	20 U	20 U	20 U
Aroclor 1242		U	20 U	19 U	20 U	160 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	340 U	20 U	20 U	20 U
Aroclor 1248		U	20 U	19 U	20 U	160 U	49 Y	20 U	**59**	20 U	20 U	20 U	24 Y	20 U	20 U	**490**	**32**	20 U	20 U
Aroclor 1254		U	20 U	19 U	**46**	**8,500**	**81**	**98**	**160**	**24**	20 U	**49**	**51**	20 U	20 U	860 Y	**43**	20 U	**25**
Aroclor 1260		U	20 U	19 U	39 Y	**8,700**	**100**	**54**	**140**	**51**	**22**	**90**	**25**	20 U	20 U	**2,700**	**21**	20 U	**22**
Total PCBs	130	1,000 U	20 U	19 U	**46**	**17,200**	**181**	**152**	**359**	**75**	**22**	**139**	**76**	20 U	20 U	**3,190**	**96**	20 U	**47**
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
1,2-Dichlorobenzene	35	50 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
1,3-Dichlorobenzene		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
1,4-Dichlorobenzene	110	110 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
2,4,5-Trichlorophenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2,4,6-Trichlorophenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2,4-Dichlorophenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2,4-Dimethylphenol[a]	29	29 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	**270**	39 U
2,4-Dinitrophenol		U	600 U	590 U	900 U	9,100 U	6,500 U	6,600 U	3,700 U	2,500 U	590 U	600 U	3,500 U	200 U	340 U	2,200 U	590 U	1,400 U	390 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB122	RCB123	RCB124	RCB125D	RCB126	RCB127	RCB128	RCB129	RCB130	RCB131	RCB132	RCB136	RCB137	RCB139	RCB141	RCB142	RCB143
Lab Ref			ME25	ME25	ME33	ME86	ME86	ME86	MF62	MF62	MF62	MJ15	MM72	MP02	MP02	MU58	MW66	MX98	MX98
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD
Outfall			Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Norfolk CSO/SD/P S17 EOF	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	2nd Ave S SD	7th Ave S SD	Norfolk CSO/SD/P S17 EOF	7th Ave S SD	7th Ave S SD	Hamm Cr	7th Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD
Date	**SQS**	**CSL**	01/04/08	01/04/08	01/07/08	01/10/08	01/10/08	01/10/08	01/18/08	01/18/08	01/18/08	02/15/08	03/12/08	03/25/08	03/25/08	05/01/08	05/14/08	05/23/08	05/23/08
Total solids (%)			85.7	76.0	48.3	50.6	30.7	21.9	52.1	74.2	76.6	61.1	76.3	52.4	80.0	50.4	73.3	68.3	80.0
2,4-Dinitrotoluene		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2,6-Dinitrotoluene		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2-Chloronaphthalene		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
2-Chlorophenol		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
2-Methylnaphthalene	670	670 U	60 U	59 U	90 U	910 U	650 U	660 U	**1,200**	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	**440**	**30** J
2-Methylphenol[a]	63	63 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	**840**	**42**
2-Nitroaniline		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
2-Nitrophenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
3,3'-Dichlorobenzidine		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
3-Nitroaniline		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
4,6-Dinitro-2-methylphenol		U	600 U	590 U	900 U	9,100 U	6,500 U	6,600 U	3,700 U	2,500 U	590 U	600 U	3,500 U	200 U	340 U	2,200 U	590 U	1,400 U	390 U
4-Bromophenyl-phenylether		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
4-Chloro-3-methylphenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
4-Chloroaniline		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
4-Chlorophenyl-phenylether		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
4-Methylphenol[a]	670	670	60 U	59 U	90 U	910 U	650 U	**2,500**	370 U	250 U	59 U	60 U	350 U	20 U	34 U	**530**	**640**	**610**	**280**
4-Nitroaniline		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
4-Nitrophenol		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
Benzoic acid[a]	650	650 U	600 U	590 U	900 U	9,100 U	6,500 U	6,600 U	3,700 U	2,500 U	590 U	600 U	3,500 U	200 U	340 U	2,200 U	**410** J	1,400 U	390 U
Benzyl alcohol[a]	57	73 U	60 U	59 U	90 U	910 U	650 U	**1,100**	370 U	**250**	59 U	60 U	350 U	20 U	34 U	**500**	59 U	140 U	39 U
bis(2-Chloroethoxy) methane		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Bis-(2-chloroethyl) ether		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Carbazole		U	60 U	59 U	90 U	910 U	650 U	660 U	**900**	250 U	59 U	**130**	350 U	20 U	34 U	220 U	**43** J	140 U	39 U
Dibenzofuran	540	540 U	60 U	59 U	90 U	910 U	650 U	660 U	**450**	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	**170**	39 U
Hexachlorobenzene	22	70 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Hexachlorobutadiene	11	120 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Hexachlorocyclopentadiene		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
Hexachloroethane		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Isophorone		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
Nitrobenzene		U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	59 U	140 U	39 U
n-Nitroso-di-n-propylamine		U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
N-Nitrosodiphenylamine	28	40 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	250 Y	59 U	210 Y	39 U
Pentachlorophenol[a]	360	690 U	300 U	300 U	450 U	4,600 U	3,200 U	3,300 U	1,800 U	1,200 U	300 U	300 U	1,800 U	98 U	170 U	1,100 U	300 U	720 U	200 U
Phenol[a]	420	1,200 U	60 U	59 U	90 U	910 U	650 U	660 U	370 U	250 U	59 U	60 U	350 U	20 U	34 U	220 U	**93**	**1,000**	**86**

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. TCLP analysis
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB144	RCB146	RCB147	RCB148	RCB149	RCB152	RCB153	RCB154	RCB155	RCB156	RCB157	RCB158	RCB159	RCB160	RCB161	RCB162	RCB165
Lab Ref			MX98	NO90	NO90	NO90	NO90	NP85	NT73	NT73	NW34	NW34	NW34	NW34	OD13	OQ44	OQ44	OQ45	OS71
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	S Garden St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	Highland Park Wy SW SD	Diagonal Ave S CSO/SD	Hamm Cr	Diagonal Ave S CSO/SD	CS	7th Ave S SD	SW Idaho St SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD
Date	SQS	CSL	05/23/08	09/12/08	09/12/08	09/12/08	09/12/08	09/17/08	10/10/08	10/10/08	10/24/08	10/24/08	10/24/08	10/24/08	12/05/08	03/12/09	03/12/09	03/12/09	03/27/09
Total solids (%)			61.6	52.4	48.4	62.1	68.2	53.2	65.4	72.7	32.9	57.1	66.5	78.5	61.2	63.6	55.9	81.0	72.9
Metals (mg/kg DW)																			
Arsenic	57	93	**8**	**10.7**	**12**	**7**	**9.4**	10 U	8 U	**12**	**4.7**	10 U	7 U	7 U	**750**	**15** J	**25** J	**6** J	**21** J
Copper	390	390	**121**	**1,020**	**365**	**386**	**353**	**40.8**	**22.5**	**71.3**	**53.4**	**71.9**	**36.1**	**44.5**	**4,520**	**122** J	**195** J	**447** J	**99.6** J
Lead	450	530	**81**	**670**	**428**	**467**	**496**	**12**	**23**	**25**	**56**	**93**	**16**	**18**	**280**	**114** J	**207** J	**39** J	**45** J
Mercury	0.41	0.59	**0.08**	**1.08**	**0.97**	**0.74**	**0.72**	0.09 U	0.06 U	**0.10**	0.1 U	0.09 U	0.05 U	0.05 U	**0.27**	**0.12** J	**0.34** J	0.06 UJ	0.06 U
Zinc	410	960	**437**	**2,900**	**1,540**	**1,950**	**2,040**	**133**	**130**	**489**	**208**	**270**	**119**	**128**	**1,490**	**370** J	**466** J	**266** J	**517** J
Total petroleum hydrocarbons (mg/kg DW)																			
TPH -diesel	2,000[b]		**900**	**130**	**4,300**	**2,800**	**2,200**	**310**	**200**	**760**	150 U	**130**	67 U	**110**	**440**	**310**	**360**	**240**	**440**
TPH-oil	2,000[b]		**5,400**	**760**	**11,000**	**10,000**	**8,000**	**1,800**	**1,200**	**3,200**	**1,200**	**880**	**400**	**900**	**3,000**	**1,100**	**3,100**	**1,600**	**2,800**
LPAH (ug/kg DW)																			
Acenaphthene	500	500	220 U	140 U	590 U	**280**	**220** J	**150** J	58 U	120 U	60 U	59 U	**100**	58 U	190 U	**120**	140 U	95 U	59 U
Acenaphthylene	1,300	1,300	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	**66**	58 U	190 U	**21** J	140 U	95 U	59 U
Anthracene	960	960	220 U	**130** J	590 U	**450**	**490**	**360**	58 U	**140**	60 U	59 U	**70**	58 U	190 U	**180**	**110** J	**79** J	59 U
Fluorene	540	540	220 U	**100** J	590 U	**490**	**400**	**250**	58 U	**91** J	60 U	59 U	**160**	58 U	190 U	**140**	**81** J	**53** J	59 U
Naphthalene	2,100	2,100	220 U	**110** J	**1,000**	**970**	**460**	230 U	58 U	120 U	60 U	59 U	**190**	58 U	190 U	**370**	140 U	**66** J	59 U
Phenanthrene	1,500	1,500	**420**	**800**	**570** J	**2,600**	**2,400**	**2,700**	**140**	**800**	**39** J	**140**	**3,100**	**49** J	190 U	**720**	**800**	**450**	**57** J
Total LPAH	5,200	5,200	**420**	**1,140** J	**1,570** J	**4,790**	**3,970** J	**3,460** J	**140**	**1,031** J	**39** J	**140**	**3,686**	**49** J	190 U	**1,551** J	**991** J	**648** J	**57** J
HPAH (ug/kg DW)																			
Benzo(a)anthracene	1,300	1,600	**240**	**450**	**330** J	**950**	**1,100**	**1,600**	**71**	**290**	60 U	**89**	**70**	58 U	190 U	**360**	**360**	**260**	**51** J
Benzo(a)pyrene	1,600	1,600	**240**	**490**	590 U	**670**	**770**	**1,800**	**67**	**600**	60 U	**100**	**68**	58 U	190 U	**370**	**380**	**280**	**86**
Benzo(b)fluoranthene	3,200	3,600	**390**	**820**	**490** J	**900**	**1,400**	**2,600**	**54** J	**520**	**36** J	**170**	**310**	**57** J	**300**	**320**	**420**	**300**	**150**
Benzo(g,h,i)perylene	670	720	**130** J	**280**	590 U	**250** J	**250** J	**560**	**46** J	**200**	60 U	**64**	**35** J	58 U	190 U	**180**	**200**	**130**	**87**
Benzo(k)fluoranthene	3,200	3,600	**420**	**1,000**	**540** J	**870**	**1,100**	**1,800**	**83**	**470**	60 U	**180**	**200**	**34** J	190 U	**470**	**450**	**460**	**120**
Chrysene	1,400	2,800	**560**	**1,200**	**620**	**1,500**	**1,800**	**2,600**	**110**	**720**	**45** J	**220**	**580**	**69**	**280**	**550**	**670**	**470**	**250**
Dibenz(a,h)anthracene	230	230	220 U	**92** J	590 U	260 U	320 U	**160** J	58 U	120 U	60 U	59 U	58 U	58 U	190 U	**60**	140 U	95 U	59 U
Fluoranthene	1,700	2,500	**750**	**1,800**	**1,100**	**3,000**	**3,900**	**5,200**	**200**	**1,600**	**78**	**310**	**3,200**	**73**	**190**	**870**	**1,000**	**610**	**150**
Indeno(1,2,3-cd)pyrene	600	690	220 U	**220**	590 U	**170** J	**240** J	**560**	**31** J	**250**	60 U	**35** J	58 U	58 U	190 U	**160**	**150**	**100**	**46** J
Pyrene	2,600	3,300	**810**	**1,800**	**1,100**	**3,400**	**4,100**	**3,600**	**170**	**890**	**54** J	**240**	**1,700**	**63**	190 U	**1,000**	**1,200**	**720**	**210**
Total HPAH	12,000	17,000	**3,540** J	**8,152** J	**4,180** J	**11,710** J	**14,660** J	**20,480** J	**832** J	**5,540**	**213** J	**1,408** J	**6,163** J	**296** J	**770**	**4,340**	**4,830**	**3,330**	**1,150** J
Phthalates (ug/kg dw)																			
Bis(2-ethylhexyl)phthalate	1,300	1,900	**8,800**	**47,000**	**35,000**	**36,000**	**36,000**	**1,700**	**1,100**	**5,100**	**1,100**	**3,500**	**1,100**	**1,600**	**710**	**2,600**	**2,300**	**72,000**	**1,400**
Butylbenzylphthalate	63	900	**350**	**2,100**	**1,900**	**4,400**	**4,900**	230 U	58 U	**8,200**	**250**	**110**	**74**	**1,400**	190 U	**110**	**110** J	**310**	**110**
Diethylphthalate	200		220 U	140 U	590 U	**360**	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Dimethylphthalate	71	160	220 U	**360**	590 U	**230** J	**1,200**	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	**120**	140 U	**50** J	59 U
Di-n-butylphthalate	1,400	1,400	**180** J	**750**	**1,100**	**670**	**600**	230 U	58 U	**80** J	60 U	59 U	58 U	58 U	190 U	**57**	140 U	**89** J	59 U
Di-n-octyl phthalate	6,200		**610**	**1,100**	**1,500**	**2,900**	**3,200**	230 U	**94**	**1,000**	**61**	**180**	**45** J	**94**	190 U	**61**	**88** J	**340**	**77**
PCBs (ug/kg dw)																			
Aroclor 1016			20 U	200 U	58 U	400 U	390 U	19 U	19 U	18 U	20 U	20 U	19 U	19 U	59 U	20 U	20 U	20 U	19 U
Aroclor 1221			40 Y	200 U	58 U	400 U	390 U	19 U	19 U	18 U	20 U	20 U	19 U	19 U	59 U	20 U	20 U	20 U	19 U
Aroclor 1232			20 U	200 U	58 U	400 U	390 U	19 U	19 U	18 U	20 U	20 U	19 U	19 U	59 U	20 U	20 U	20 U	19 U
Aroclor 1242			**480**	200 U	58 U	400 U	390 U	19 U	19 U	18 U	20 U	20 U	19 U	19 U	59 U	20 U	20 U	20 U	19 U
Aroclor 1248			40 Y	**860**	**240**	**1,600**	**1,500**	19 U	19 U	**28**	20 U	20 U	19 U	19 U	59 U	**42**	**96**	**37**	19 U
Aroclor 1254			50 Y	**1,200**	**360**	**2,100**	**1,800**	19 U	19 U	**21**	20 U	20 U	19 U	19 U	**77**	**100**	**180**	**70**	**34** J
Aroclor 1260			40 Y	**500**	**94**	400 U	390 U	19 U	19 U	18 U	20 U	20 U	19 U	19 U	**68**	**64**	**130**	**59**	**27**
Total PCBs	130	1,000	**480**	**2,560**	**694**	**3,700**	**3,300**	19 U	19 U	**49**	20 U	20 U	19 U	19 U	**145**	**206**	**406**	**166**	**61** J
Other organic compounds (ug/kg dw)																			
1,2,4-Trichlorobenzene	31	51	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
1,2-Dichlorobenzene	35	50	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
1,3-Dichlorobenzene			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
1,4-Dichlorobenzene	110	110	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
1-Methylnaphthalene																			
2,2'-Oxybis(1-chloropropane)			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
2,4,5-Trichlorophenol			1,100 U	720 U	2,900 U	**780** J	**890** J	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2,4,6-Trichlorophenol			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2,4-Dichlorophenol			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2,4-Dimethylphenol[a]	29	29	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
2,4-Dinitrophenol			2,200 U	1,400 U	5,900 U	2,600 U	3,200 U	2,300 U	580 U	1,200 U	600 U	590 U	580 U	580 U	1,900 U	370 U	1,400 U	950 U	590 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB144	RCB146	RCB147	RCB148	RCB149	RCB152	RCB153	RCB154	RCB155	RCB156	RCB157	RCB158	RCB159	RCB160	RCB161	RCB162	RCB165
Lab Ref			MX98	NO90	NO90	NO90	NO90	NP85	NT73	NT73	NW34	NW34	NW34	NW34	OD13	OQ44	OQ44	OQ45	OS71
Sewer Type[c]			SD	SD	SD	SD	SD	SD	SD	SD	SD	CS	SD	SD	SD	SD	SD	SD	SD
Outfall			Diagonal Ave S CSO/SD	S Garden St SD	S Myrtle St SD	S Myrtle St SD	S Myrtle St SD	Highland Park Wy SW SD	Diagonal Ave S CSO/SD	Hamm Cr	Diagonal Ave S CSO/SD	CS	7th Ave S SD	SW Idaho St SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD
Date	SQS	CSL	05/23/08	09/12/08	09/12/08	09/12/08	09/12/08	09/17/08	10/10/08	10/10/08	10/24/08	10/24/08	10/24/08	10/24/08	12/05/08	03/12/09	03/12/09	03/12/09	03/27/09
Total solids (%)			61.6	52.4	48.4	62.1	68.2	53.2	65.4	72.7	32.9	57.1	66.5	78.5	61.2	63.6	55.9	81.0	72.9
2,4-Dinitrotoluene			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2,6-Dinitrotoluene			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2-Chloronaphthalene			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
2-Chlorophenol			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
2-Methylnaphthalene	670	670	220 U	**130** J	**3,600**	**1,900**	**960**	230 U	58 U	**99** J	60 U	59 U	**72**	58 U	190 U	**200**	**69** J	95 U	59 U
2-Methylphenol[a]	63	63	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
2-Nitroaniline			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
2-Nitrophenol			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
3,3'-Dichlorobenzidine			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
3-Nitroaniline			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
4,6-Dinitro-2-methylphenol			2,200 U	1,400 U	5,900 U	2,600 U	3,200 U	2,300 U	580 U	1,200 U	600 U	590 U	580 U	580 U	1,900 U	370 U	1,400 U	950 U	590 U
4-Bromophenyl-phenylether			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
4-Chloro-3-methylphenol			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
4-Chloroaniline			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
4-Chlorophenyl-phenylether			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
4-Methylphenol[a]	670	670	**810**	140 U	**18,000**	**2,600**	**2,000**	**1,700**	58 U	120 U	**650**	**39** J	**230**	**53** J	190 U	**330**	**230**	95 U	59 U
4-Nitroaniline			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
4-Nitrophenol			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
Benzoic acid[a]	650	650	2,200 U	1,400 U	5,900 U	2,600 U	3,200 U	2,300 U	580 U	1,200 U	600 U	590 U	580 U	580 U	1,900 U	**350** J	1,400 U	**570** J	590 U
Benzyl alcohol[a]	57	73	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	**58**	140 U	**280**	59 U
bis(2-Chloroethoxy) methane			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Bis-(2-chloroethyl) ether			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Carbazole			220 U	**140**	590 U	**310**	**300** J	**480**	58 U	**94** J	60 U	59 U	**200**	58 U	190 U	**59**	140 U	54 J	59 U
Dibenzofuran	540	540	220 U	140 U	590 U	260 U	320 U	**160** J	58 U	120 U	60 U	59 U	**220**	58 U	190 U	**63**	140 U	95 U	59 U
Hexachlorobenzene	22	70	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	**4,300**	190 U	37 U	140 U	95 U	59 U
Hexachlorobutadiene	11	120	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Hexachlorocyclopentadiene			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
Hexachloroethane			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Isophorone			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	38	140 U	95 U	59 U
Nitrobenzene			220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
n-Nitroso-di-n-propylamine			1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
N-Nitrosodiphenylamine	28	40	220 U	140 U	590 U	260 U	320 U	230 U	58 U	120 U	60 U	59 U	58 U	58 U	190 U	37 U	140 U	95 U	59 U
Pentachlorophenol[a]	360	690	1,100 U	720 U	2,900 U	1,300 U	1,600 U	1,200 U	290 U	590 U	300 U	290 U	290 U	290 U	970 U	190 U	680 U	480 U	300 U
Phenol[a]	420	1,200	220 U	180 U	850 U	890 U	1000 U	230 U	58 U	120 U	**51** J	59 U	**69**	58 U	190 U	**99**	**260**	**120**	59 U

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
c. TCLP analysis
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB169	
Lab Ref			OX05	
Sewer Type[c]			SD	
Outfall			S Brighton St CSO/SD	
Date	**SQS**	**CSL**	04/29/09	
Total solids (%)			NA	
Metals (mg/kg DW)				
Arsenic	57	93	0.2[d]	U
Copper	390	390	NA	
Lead	450	530	**0.4**[d]	
Mercury	0.41	0.59	0.0001[d]	U
Zinc	410	960	NA	
Total petroleum hydrocarbons (mg/kg DW)				
TPH -diesel	2,000[b]		**6,800**	
TPH-oil	2,000[b]		**12,000**	
LPAH (ug/kg DW)				
Acenaphthene	500	500	NA	
Acenaphthylene	1,300	1,300	NA	
Anthracene	960	960	NA	
Fluorene	540	540	NA	
Naphthalene	2,100	2,100	NA	
Phenanthrene	1,500	1,500	NA	
Total LPAH	5,200	5,200	NA	
HPAH (ug/kg DW)				
Benzo(a)anthracene	1,300	1,600	NA	
Benzo(a)pyrene	1,600	1,600	NA	
Benzo(b)fluoranthene	3,200	3,600	NA	
Benzo(g,h,i)perylene	670	720	NA	
Benzo(k)fluoranthene	3,200	3,600	NA	
Chrysene	1,400	2,800	NA	
Dibenz(a,h)anthracene	230	230	NA	
Fluoranthene	1,700	2,500	NA	
Indeno(1,2,3-cd)pyrene	600	690	NA	
Pyrene	2,600	3,300	NA	
Total HPAH	12,000	17,000	NA	
Phthalates (ug/kg dw)				
Bis(2-ethylhexyl)phthalate	1,300	1,900	NA	
Butylbenzylphthalate	63	900	NA	
Diethylphthalate	200		NA	
Dimethylphthalate	71	160	NA	
Di-n-butylphthalate	1,400	1,400	NA	
Di-n-octyl phthalate	6,200		NA	
PCBs (ug/kg dw)				
Aroclor 1016			99	U
Aroclor 1221			99	U
Aroclor 1232			99	U
Aroclor 1242			99	U
Aroclor 1248			**600**	J
Aroclor 1254			**1,400**	
Aroclor 1260			**910**	
Total PCBs	130	1,000	**2,910**	J
Other organic compounds (ug/kg dw)				
1,2,4-Trichlorobenzene	31	51	NA	
1,2-Dichlorobenzene	35	50	NA	
1,3-Dichlorobenzene			NA	
1,4-Dichlorobenzene	110	110	NA	
1-Methylnaphthalene				
2,2'-Oxybis(1-chloropropane)			NA	
2,4,5-Trichlorophenol			NA	
2,4,6-Trichlorophenol			NA	
2,4-Dichlorophenol			NA	
2,4-Dimethylphenol[a]	29	29	NA	
2,4-Dinitrophenol			NA	

DT-8: Right-of-way catch basin sample results: Dry weight.

Sample ID			RCB169
Lab Ref			OX05
Sewer Type[c]			SD
Outfall			S Brighton St CSO/SD
Date	**SQS**	**CSL**	04/29/09
Total solids (%)			NA
2,4-Dinitrotoluene			NA
2,6-Dinitrotoluene			NA
2-Chloronaphthalene			NA
2-Chlorophenol			NA
2-Methylnaphthalene	670	670	NA
2-Methylphenol[a]	63	63	NA
2-Nitroaniline			NA
2-Nitrophenol			NA
3,3'-Dichlorobenzidine			NA
3-Nitroaniline			NA
4,6-Dinitro-2-methylphenol			NA
4-Bromophenyl-phenylether			NA
4-Chloro-3-methylphenol			NA
4-Chloroaniline			NA
4-Chlorophenyl-phenylether			NA
4-Methylphenol[a]	670	670	NA
4-Nitroaniline			NA
4-Nitrophenol			NA
Benzoic acid[a]	650	650	NA
Benzyl alcohol[a]	57	73	NA
bis(2-Chloroethoxy) methane			NA
Bis-(2-chloroethyl) ether			NA
Carbazole			NA
Dibenzofuran	540	540	NA
Hexachlorobenzene	22	70	NA
Hexachlorobutadiene	11	120	NA
Hexachlorocyclopentadiene			NA
Hexachloroethane			NA
Isophorone			NA
Nitrobenzene			NA
n-Nitroso-di-n-propylamine			NA
N-Nitrosodiphenylamine	28	40	NA
Pentachlorophenol[a]	360	690	NA
Phenol[a]	420	1,200	NA

DT-8: Right-of-way catch basin sample results (dry weight).

Sample ID			CB2-DAL	CB4-DAL	RCB176	RCB177	RCB178	RCB179	RCB180	RCB181	RCB182	RCB183	RCB184	SD14	SW1	RCB189F	RCB185	RCB190
Lab Ref			QN25	QN25	PZ96	PZ96	PZ96	PZ96	PZ96	QN25	QN25	QN25	QN25	QN25	QN25	QW05	QT06	RH70
Sewer Type[c]			CS	CS	SD	SD	SD	SD	SD	CS	CS	CS	CS	CS	CS	SD	SD	SD
Outfall			CS	CS	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Myrtle St SD	CS	CS	CS	CS	CS	CS	S Myrtle St SD	SW Dakota St SD/ditch	2nd Ave S SD
Date	SQS	CSL	3/10/10	3/10/10	12/3/09	12/3/09	12/3/09	12/3/09	12/3/09	3/10/10	3/10/10	3/10/10	3/10/10	3/10/10	3/10/10	5/11/10	4/16/10	8/9/10
Total solids (%)			42.3	61.3	83.1	56.6	52.3	43.1	66	NA	23	43.1	46.9	55.6	45	65.9	81.3	51.1
Metals (mg/kg DW)																		
Arsenic	57	93	10 U	**8**	**6.8** J	**17** J	**18** J	**20** J	**6.5** J	**9**	**8** J	**10**	**10**	8 U	**11.3** J	**22.4**	10 U	9 U
Copper	390	390	**147**	**143**	**291** J	**242** J	**327** J	**238** J	**1,110** J	**105**	**116**	**85.5**	**103**	**112**	**284**	**3,280**	**169**	**151**
Lead	450	530	**237** J	**67** J	**230**	**290**	**275**	**284**	**192**	**83** J	**101** J	**719** J	**61** J	**111** J	**250** J	**904**	**39**	**76**
Mercury	0.41	0.59	**0.08**	**0.04**	**0.42**	**0.45**	**0.39**	**0.36**	**0.33**	**0.04**	0.1 U	**0.87**	**0.08**	**0.24**	**0.33**	**0.66**	**0.04**	**0.07**
Zinc	410	960	**571**	**588**	**985**	**1,100**	**1,340**	**1,400**	**1,500**	**278**	**813**	**592**	**430**	**602**	**1,040**	**3,890**	**202**	**591**
Total petroleum hydrocarbons (mg/kg DW)																		
TPH -diesel	2,000[b]		**530**	75 U	**1,300**	**1,000**	**1,200**	**4,700**	**500**	NA	**860**	**1,000**	**530**	**580**	**900**	**1,800**	**89**	**920**
TPH-oil	2,000[b]		**2,300**	**550**	**6,300**	**4,200**	**6,600**	**13,000**	**2,900**	NA	**3,100**	**2,200**	**1,700**	**2,700**	**3,500**	**8,600**	**460**	**6,600**
LPAH (ug/kg DW)																		
Acenaphthene	500	500	460 U	41 U	**250**	170 U	220 U	260 U	**200**	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Acenaphthylene	1,300	1,300	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Anthracene	960	960	**260** J	41 U	**300**	**180**	220 U	**210** J	**460**	170 U	**160** J	100 U	230 U	**380**	**230** J	**200** J	74 U	360 U
Fluorene	540	540	**360** J	41 U	**320**	**120** J	220 U	**190** J	**360**	170 U	**210**	100 U	**140** J	**450**	**120** J	**240** J	74 U	360 U
Naphthalene	2,100	2,100	**550**	41 U	**200** J	**110** J	220 U	**140** J	**120**	170 U	**100** J	100 U	230 U	**630**	240 U	**470**	**38** J	360 U
Phenanthrene	1,500	1,500	**2,100**	**110**	**1,900**	**710**	**450**	**1,200**	**2,500**	**360**	**1,300**	100 U	**750**	**1,900**	**750**	**1,600**	**75**	**1,000**
Total LPAH	5,200	5,200	**3,270** J	**110**	**2,970** J	**1,120** J	**450**	**1,740** J	**3,640**	**360**	**1,770** J	**100**	**890** J	**3,360**	**1,100** J	**2,510** J	**113** J	**1,000**
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**540**	**44**	**820**	**540**	**370**	**750**	**790**	**300**	**340**	100 U	**390**	**620**	**330**	**610** J	**53** J	**840**
Benzo(a)pyrene	1,600	1,600	**710**	**100**	**720**	**650**	**470**	**800**	**720**	**420**	**580**	**110**	**450**	**650**	**740**	**520**	**78**	**720**
Benzo(b)fluoranthene	3,200	3,600	**760**	**150**	**770**	**850**	**660**	**1,100**	**790**	**450**	**650**	**140**	**550**	**720**	**750**	**610**	**87**	**800**
Benzo(g,h,i)perylene	670	720	**390** J	**74**	**530**	**460**	**350**	**560**	**200**	**180**	**440**	**110**	**330**	**370**	**400**	**220** J	**43** J	**270** J
Benzo(k)fluoranthene	3,200	3,600	**760**	**150**	**770**	**850**	**660**	**1,100**	**790**	**450**	**650**	**140**	**550**	**720**	**750**	**610**	**87**	**800**
Chrysene	1,400	2,800	**1,400**	**260**	**1,400**	**1,200**	**990**	**1,900**	**1,200**	**600**	**1,500**	**280**	**870**	**1,100**	**1,200**	**1,300**	**140**	**1,300**
Dibenz(a,h)anthracene	230	230	460 U	41 U	**210** J	**140** J	220 U	**200** J	**66** J	170 U	**58** J	100 U	230 U	330 U	240 U	330 U	74 U	**120** J
Fluoranthene	1,700	2,500	**1,800**	**190** J	**2,500**	**1,600**	**890**	**2,800**	**2,400**	**850**	**1,700**	**280**	**920**	**1,900**	**1,400**	**2,200**	**120**	**2,000**
Indeno(1,2,3-cd)pyrene	600	690	460 U	**48**	**350**	**400**	**220**	**380**	**180**	**140** J	**200**	**53** J	**190** J	**230** J	**210** J	330 U	74 U	**240** J
Pyrene	2,600	3,300	**1,700**	**210** J	**2,300**	**1,600**	**1,100**	**3,100**	**1,600**	**780**	**2,500**	**560**	**1,200**	**1,900**	**1,700**	**1,700**	**110** J	**2,000**
Total HPAH	12,000	17,000	**8,060** J	**1,226** J	**10,370**	**8,290**	**5,710**	**12,690**	**8,736**	**4,170** J	**8,618** J	**1,673** J	**5,450** J	**8,210** J	**7,480** J	**7,770** J	**718** J	**9,090** J
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**21,000**	**1,600** J	**23,000**	**21,000**	**15,000**	**28,000**	**6,800**	**5,200**	**27,000**	**7,300**	**12,000**	**24,000**	**18,000**	**84,000**	**2,900**	**13,000** B
Butylbenzylphthalate	63	900	**580**	**260**	**2,100**	**1,400**	**2,100**	**1,800**	**1,500**	**430**	190 U	100 U	**73,000**	**1,600**	240 U	**6,200**	**19,000**	**640**
Diethylphthalate	200		**630**	41 U	**130** J	170 U	220 U	**140** J	**63** J	170 U	**650**	**200**	230 U	330 U	240 U	330 U	74 U	360 U
Dimethylphthalate	71	160	460 U	**80**	**780**	**420**	**1,400**	**510**	**360**	170 U	**1,200**	100 U	230 U	330 U	240 U	**870**	**66** J	360 U
Di-n-butylphthalate	1,400	1,400	460 U	41 U	**680**	**400**	**470**	**860**	**270**	**170** J	**330**	100 U	230 U	**350**	240 U	**3,200**	**1,700**	360 U
Di-n-octyl phthalate	6,200		460 U	41 U	**3,400**	**860**	**740**	**2,600**	**770**	170 U	190 U	100 U	230 U	330 U	240 U	**3,500**	**250**	**1,100** J
PCBs (ug/kg dw)																		
Aroclor 1016			47 U	39 U	58 U	92 U	91 U	67 U	45 U	53 U	62 U	75 U	38 U	38 U	40 U	34 U	19 U	19 U
Aroclor 1221			47 U	39 U	58 U	92 U	91 U	67 U	45 U	53 U	62 U	75 U	38 U	38 U	40 U	34 U	19 U	19 U
Aroclor 1232			71 Y	39 U	58 U	92 U	91 U	67 U	45 U	53 U	62 U	75 U	38 U	38 U	40 U	34 U	19 U	19 U
Aroclor 1242			47 U	39 U	58 U	92 U	91 U	67 U	45 U	53 U	62 U	75 U	38 U	38 U	40 U	34 U	19 U	19 U
Aroclor 1248			47 U	39 U	**980**	**1,300**	**700**	**660**	**300**	53 U	93 Y	75 U	38 U	38 U	60 Y	**1,300**	130 Y	48 Y
Aroclor 1254			**140** NJ	**140** NJ	**1,100**	**1,500**	**910**	**770**	**390**	**140** NJ	**180** NJ	**300** NJ	280 U	**120** NJ	**280** NJ	**1,400**	**460**	**110**
Aroclor 1260			**280**	**420**	**280**	**660**	**390** J	**310**	**150**	**530**	**310**	**1,000**	**340**	**160**	**340**	**250**	**150**	**41**
Total PCBs	130	1,000	**420** NJ	**560** NJ	**2,360**	**3,460**	**2,000**	**1,740**	**840**	**670** NJ	**490** NJ	**1,300** NJ	**340**	**280** NJ	**620** NJ	**1,650**	**610**	**151**
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
1,2-Dichlorobenzene	35	50	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
1,3-Dichlorobenzene			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
1,4-Dichlorobenzene	110	110	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
1-Methylnaphthalene				41 U	**150** J	170 U	220 U	**140** J	**100** J								**57** J	360 U
2,2'-Oxybis(1-chloropropane)			460 UJ	41 UJ	230 U	170 U	220 U	260 U	100 U	170 UJ	190 UJ	100 UJ	230 UJ	330 UJ	240 UJ	330 U	74 U	360 U
2,4,5-Trichlorophenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
2,4,6-Trichlorophenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
2,4-Dichlorophenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
2,4-Dimethylphenol[a]	29	29	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
2,4-Dinitrophenol			4,600 U	410 U	2,300 U	1,700 U	2,200 U	2,600 U	1,000 U	1,700 U	1,900 U	1,000 U	2,300 U	3,300 U	2,400 U	3,300 U	740 U	3,600 UJ
2,4-Dinitrotoluene			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U

DT-8: Right-of-way catch basin sample results (dry weight).

Sample ID			CB2-DAL	CB4-DAL	RCB176	RCB177	RCB178	RCB179	RCB180	RCB181	RCB182	RCB183	RCB184	SD14	SW1	RCB189F	RCB185	RCB190
Lab Ref			QN25	QN25	PZ96	PZ96	PZ96	PZ96	PZ96	QN25	QN25	QN25	QN25	QN25	QN25	QW05	QT06	RH70
Sewer Type[c]			CS	CS	SD	SD	SD	SD	SD	CS	CS	CS	CS	CS	CS	SD	SD	SD
Outfall			CS	CS	S Myrtle St SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Brighton St CSO/SD	S Myrtle St SD	CS	CS	CS	CS	CS	CS	S Myrtle St SD	SW Dakota St SD/ditch	2nd Ave S SD
Date	SQS	CSL	3/10/10	3/10/10	12/3/09	12/3/09	12/3/09	12/3/09	12/3/09	3/10/10	3/10/10	3/10/10	3/10/10	3/10/10	3/10/10	5/11/10	4/16/10	8/9/10
Total solids (%)			42.3	61.3	83.1	56.6	52.3	43.1	66	NA	23	43.1	46.9	55.6	45	65.9	81.3	51.1
2,6-Dinitrotoluene			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
2-Chloronaphthalene			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
2-Chlorophenol			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
2-Methylnaphthalene	670	670	**490**	41 U	**280**	**140** J	**120** J	**210** J	**130**	170 U	**320**	100 U	250	**240** J	**120** J	**980**	**91**	360 U
2-Methylphenol[a]	63	63	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
2-Nitroaniline			2,300 UJ	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 UJ	970 UJ	510 UJ	1,200 UJ	1,600 UJ	1,200 UJ	1,600 U	370 U	1,800 U
2-Nitrophenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	330 U	74 U	360 U
3,3'-Dichlorobenzidine			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
3-Nitroaniline			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
4,6-Dinitro-2-methylphenol			4,600 U	410 U	2,300 U	1,700 U	2,200 U	2,600 U	1,000 U	1,700 U	1,900 U	1,000 U	2,300 U	3,300 U	2,400 U	3,300 U	740 U	3,600 U
4-Bromophenyl-phenylether			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
4-Chloro-3-methylphenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
4-Chloroaniline			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
4-Chlorophenyl-phenylether			460 U	**41** U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
4-Methylphenol[a]	670	670	**370** J	**630**	**460**	**290**	**15,000**	**630**	**160**	**2,000**	**1,900**	**140**	**230**	**300** J	240 U	330 U	74 U	360 U
4-Nitroaniline			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
4-Nitrophenol			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
Benzoic acid[a]	650	650	4,600 U	270 J	2,300 U	1,700 U	**3,000**	**640** J	1,000 U	1,700 U	**800** J	**320** J	2,300 U	3,300 U	2,400 U	3,300 U	**1,900**	3,600 U
Benzyl alcohol[a]	57	73	400 J	**56**	230 U	**690**	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	**440**	**3,700**	360 UJ
bis(2-Chloroethoxy) methane			**460** U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Bis-(2-chloroethyl) ether			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Carbazole			460 U	41 U	230 U	170 U	220 U	260 U	100 U	**89** J	**120** J	100 U	230 U	**280** J	240 U	**190** J	74 U	360 U
Dibenzofuran	540	540	460 U	41 U	180 J	170 U	220 U	260 U	**190**	170 U	190 U	100 U	230 U	**240** J	240 U	330 U	74 U	360 U
Hexachlorobenzene	22	70	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	**220** J	240 U	330 U	74 U	360 U
Hexachlorobutadiene	11	120	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Hexachlorocyclopentadiene			2,300 UJ	210 UJ	1,100 U	870 U	1,100 U	1,300 U	530 U	860 UJ	970 UJ	510 UJ	1,200 UJ	1,600 UJ	1,200 UJ	1,600 U	370 U	1,800 UJ
Hexachloroethane			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Isophorone			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Nitrobenzene			460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
n-Nitroso-di-n-propylamine			2,300 U	210 U	1,100 U	870 U	1,100 U	1,300 U	530 U	860 U	970 U	510 U	1,200 U	1,600 U	1,200 U	1,600 U	370 U	1,800 U
N-Nitrosodiphenylamine	28	40	460 U	41 U	230 U	170 U	220 U	260 U	100 U	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U
Pentachlorophenol[a]	360	690	2,300 UJ	210 UJ	1,100 U	870 U	1,100 U	1,300 U	530 U	860 UJ	970 UJ	510 UJ	1,200 UJ	1,600 UJ	1,200 UJ	1,600 U	370 U	1,800 UJ
Phenol[a]	420	1,200	460 U	**110**	230 U	170 U	**180** J	260 U	**55** J	170 U	190 U	100 U	230 U	330 U	240 U	330 U	74 U	360 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. SD = discharges to separated storm drain; CS = discharges to combined sewer system.

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Lookup			CB1-112508-G	6 CB36-112508-G	8 RCB170-052809	10 RCB175-060409	12 RCB200-082808-G	14 RCB200-031709	16 RCB201-042409	18 RCB202-031709	20 RCB203-031709	22 RCB204-032609	24 RCB205-032609	26 RCB206-041509	28 RCB207-042409	30 RCB208-042409	32 RCB209-031709	34
Sample ID			RCB1	RCB36	RCB170	RCB175	RCB200a	RCB200b	RCB201	RCB202	RCB203	RCB204	RCB205	RCB206	RCB207	RCB208	RCB209	
Lab Ref			OB72	OB72	PA69	PB25	NM74	OR05	OW77	OR05	OR05	OS39	OS39	OV62	OW77	OW77	OW77	
Sample Type[c]			CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	Dirt	CB	CB	CB	
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD	2nd Ave S SD	SW Dakota SD/ditch	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	16th Ave S SD	16th Ave S SD	2nd Ave S SD	
Date	SQS	CSL	11/25/08	11/25/08	05/28/09	06/04/09	08/28/08	03/17/09	04/24/09	03/17/09	03/17/09	03/26/09	03/26/09	04/15/09	04/24/09	04/24/09	04/24/09	
Total solids (%)			17.3	79	42.2	87.7	77.7	69	88.6	63	64.3	NA	NA	NA	77.6	76.9	89.5	
Metals (mg/kg DW)																		
Arsenic	57	93	**10**	**12**	**36** J	**20** J	**30**	**8**	**7**	8 U	**11**	6 UJ	20 UJ	**87**	6 U	**7**	**10**	
Copper	390	390	**162**	**126**	**161** J	**91.3** J	**101**	**98.4**	**80.4**	**124**	**131**	**38.4** J	**203** J	**139**	**112**	**105**	**225**	
Lead	450	530	**220**	**46**	**200** J	**40** J	**112**	**60**	**43**	**80**	**521**	**34** J	**135** J	**45**	**88**	**75**	**52**	
Mercury	0.41	0.59	**0.2**	**0.26**	**0.08** J	**0.06** J	0.04 U	**0.13**	**0.06**	0.08 U	**0.22**	0.05 UJ	**0.07** J	**0.08**	**0.09**	**0.10**	**0.13**	
Zinc	410	960	**1,330**	**292**	**289** J	**354** J	**424**	**311**	**234**	**457**	**521**	**135** J	**406** J	**240**	**363**	**374**	**427**	
Total petroleum hydrocarbons (mg/kg DW)																		
TPH -diesel	2,000[b]		**410**	**650**	**480**	**470**	**110**	**91**	**100**	**1,600**	**440**	NA	NA	NA	**190**	**230**	**110**	
TPH-oil	2,000[b]		**2,500**	**2,700**	**3,200**	**2,200**	**330**	**810**	**590**	**6,600**	**3,200**	NA	NA	NA	**1,100**	**1,300**	**610**	
LPAH (ug/kg DW)																		
Acenaphthene	500	500	**100**	**72**	230 U	110 U	19 U	87 U	59 U	**230**	120 U	NA	NA	NA	58 U	60 U	60 U	
Acenaphthylene	1,300	1,300	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
Anthracene	960	960	**330**	**3,000**	230 U	110 U	**27**	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
Fluorene	540	540	**140**	**520**	230 U	110 U	19 U	87 U	59 U	**220**	120 U	NA	NA	NA	58 U	60 U	60 U	
Naphthalene	2,100	2,100	**59** J	**110**	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
Phenanthrene	1,500	1,500	**2,800**	**2,000**	**180** J	**150**	**100**	87 U	59 U	**880**	**340**	NA	NA	NA	**270**	**300**	**65**	
Total LPAH	5,200	5,200	**3,429** J	**5,702**	**180** J	**150**	**127**	87 U	59 U	**1,330**	**340**	NA	NA	NA	**270**	**300**	**65**	
HPAH (ug/kg DW)																		
Benzo(a)anthracene	1,300	1,600	**2,400**	**300**	**140** J	**130**	**120**	87 U	59 U	**340**	**220**	NA	NA	NA	**240**	**270**	60 U	
Benzo(a)pyrene	1,600	1,600	**2,800**	**700**	**180** J	**170**	**150**	87 U	59 U	**350**	**270**	NA	NA	NA	**300**	**340**	60 U	
Benzo(b)fluoranthene	3,200	3,600	**3,600**	**470**	**200** J	**200**	**200**	87 U	**74** J	**480**	**300**	NA	NA	NA	**300**	**450**	**68** J	
Benzo(g,h,i)perylene	670	720	**1,200**	**240**	**140** J	**73** J	**33**	87 U	59 U	200 U	**140**	NA	NA	NA	**240** J	**260** J	60 U	
Benzo(k)fluoranthene	3,200	3,600	**2,100**	**610**	**200** J	**200**	**170**	**140**	**110** J	**490**	**360**	NA	NA	NA	**450**	**450**	**79** J	
Chrysene	1,400	2,800	**3,400**	**1,200**	**510**	**230**	**180**	**140**	**93**	**690**	**390**	NA	NA	NA	**400**	**400**	**98**	
Dibenz(a,h)anthracene	230	230	**510**	**54**	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
Fluoranthene	1,700	2,500	**6,000**	**1,700**	**380**	**310**	**320**	**160**	**130**	**1,100**	**570**	NA	NA	NA	**620**	**640**	**120**	
Indeno(1,2,3-cd)pyrene	600	690	**1,200**	**190**	230 U	110 U	**32**	87 U	59 U	200 U	120 U	NA	NA	NA	**170** J	**180** J	60 U	
Pyrene	2,600	3,300	**4,700**	**1,100**	**260**	**290**	**260**	**180**	**200**	**1,200**	**580**	NA	NA	NA	**910**	**960**	**190**	
Total HPAH	12,000	17,000	**27,910**	**6,564**	**2,010** J	**1,603** J	**1,465**	**620**	**607** J	**4,650**	**2,830**	NA	NA	NA	**3,630** J	**3,950** J	**555** J	
Phthalates (ug/kg dw)																		
Bis(2-ethylhexyl)phthalate	1,300	1,900	**4,900**	**14,000**	**2,200** B	**1,900**	**880**	**2,400** B	**980**	**18,000** B	**5,300** B	NA	NA	NA	**1,500**	**1,300**	**3,600**	
Butylbenzylphthalate	63	900	**1,600**	**1,600**	230 U	**1,000**	**28**	**190**	**140**	**410**	**450**	NA	NA	NA	**150**	**220**	**140**	
Diethylphthalate	200		96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
Dimethylphthalate	71	160	96 U	**650**	**310**	110 U	19 U	87 U	59 U	200 U	**120**	NA	NA	NA	58 U	**78**	60 U	
Di-n-butylphthalate	1,400	1,400	**200**	**150**	230 U	110 U	19 U	87 U	59 U	**370**	**170**	NA	NA	NA	58 U	60 U	**110**	
Di-n-octyl phthalate	6,200		**400**	**730**	**340**	**110**	**43**	87 U	**120**	**1,600**	**590**	NA	NA	NA	**110**	**120**	**210**	
PCBs (ug/kg dw)																		
Aroclor 1016			20 U	20 U	38 U	19 U	20 U	20 U	17 U	20 U	19 U	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1221			20 U	20 U	38 U	19 U	20 U	20 U	17 U	20 U	19 U	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1232			20 U	20 U	38 U	19 U	20 U	20 U	17 U	20 U	19 U	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1242			20 U	20 U	38 U	19 U	20 U	20 U	17 U	20 U	19 U	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1248			20 U	39 Y	**41**	19 U	**30**	20 U	17 U	20 U	**30**	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1254			20 U	**68**	**58**	**20**	**68**	**31**	17 U	**55**	**77**	NA	NA	NA	96 U	98 U	18 U	
Aroclor 1260			20 U	**33**	**110** J	**34**	**35**	**31**	**26**	**34** J	**95**	NA	NA	NA	**220**	**190**	**24**	
Total PCBs	130	1,000	20 U	**101**	**209** J	**54**	**133**	**62**	**26**	**89** J	**202**	NA	NA	NA	**220**	**190**	**24**	
Other organic compounds (ug/kg dw)																		
1,2,4-Trichlorobenzene	31	51	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
1,2-Dichlorobenzene	35	50	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
1,3-Dichlorobenzene			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
1,4-Dichlorobenzene	110	110	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	
1-Methylnaphthalene																		
2,2'-Oxybis(1-chloropropane)			96 U	38 U	230 U	110 U	19 U	87 U	59 U	**590**	120 U	NA	NA	NA	58 U	60 U	60 U	
2,4,5-Trichlorophenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U	
2,4,6-Trichlorophenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U	
2,4-Dichlorophenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U	
2,4-Dimethylphenol[a]	29	29	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U	

DT-8: Right-of-way catch basin sample results: Dry weight.

Lookup			CB1-112508-G 6	CB36-112508-G 8	RCB170-052809 10	RCB175-060409 12	RCB200-082808-G 14	RCB200-031709 16	RCB201-042409 18	RCB202-031709 20	RCB203-031709 22	RCB204-032609 24	RCB205-032609 26	RCB206-041509 28	RCB207-042409 30	RCB208-042409 32	RCB209-031709 34
Sample ID			**RCB1**	**RCB36**	**RCB170**	**RCB175**	**RCB200a**	**RCB200b**	**RCB201**	**RCB202**	**RCB203**	**RCB204**	**RCB205**	**RCB206**	**RCB207**	**RCB208**	**RCB209**
Lab Ref			OB72	OB72	PA69	PB25	NM74	OR05	OW77	OR05	OR05	OS39	OS39	OV62	OW77	OW77	OW77
Sample Type[c]			CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	CB	Dirt	CB	CB	CB
Outfall			Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	7th Ave S SD	2nd Ave S SD	SW Dakota SD/ditch	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	2nd Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	16th Ave S SD	16th Ave S SD	2nd Ave S SD
Date	**SQS**	**CSL**	11/25/08	11/25/08	05/28/09	06/04/09	08/28/08	03/17/09	04/24/09	03/17/09	03/17/09	03/26/09	03/26/09	04/15/09	04/24/09	04/24/09	04/24/09
Total solids (%)			17.3	79	42.2	87.7	77.7	69	88.6	63	64.3	NA	NA	NA	77.6	76.9	89.5
2,4-Dinitrophenol			960 U	380 U	2,300 U	1,100 U	190 U	870 U	590 U	2,000 U	1,200 U	NA	NA	NA	580 U	600 U	600 U
2,4-Dinitrotoluene			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
2,6-Dinitrotoluene			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
2-Chloronaphthalene			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
2-Chlorophenol			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
2-Methylnaphthalene	670	670	96 U	**100**	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
2-Methylphenol[a]	63	63	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
2-Nitroaniline			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
2-Nitrophenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
3,3'-Dichlorobenzidine			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
3-Nitroaniline			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
4,6-Dinitro-2-methylphenol			960 U	380 U	2,300 U	1,100 U	190 U	870 U	590 U	2,000 U	1,200 U	NA	NA	NA	580 U	600 U	600 U
4-Bromophenyl-phenylether			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
4-Chloro-3-methylphenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
4-Chloroaniline			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
4-Chlorophenyl-phenylether			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
4-Methylphenol[a]	670	670	**1,800**	**1,200**	230 U	110 U	19 U	87 U	59 U	**430**	120 U	NA	NA	NA	58 U	60 U	60 U
4-Nitroaniline			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
4-Nitrophenol			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
Benzoic acid[a]	650	650	960 U	**670**	2,300 U	1,100 U	190 U	870 U	590 U	2,000 U	1,200 U	NA	NA	NA	580 U	600 U	600 U
Benzyl alcohol[a]	57	73	96 U	**84**	230 U	110 U	19 U	87 U	59 U	200 U	**550**	NA	NA	NA	58 U	60 U	**210**
bis(2-Chloroethoxy) methane			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Bis-(2-chloroethyl) ether			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Carbazole			**520**	**1,500**	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Dibenzofuran	540	540	**53** J	**160**	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Hexachlorobenzene	22	70	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Hexachlorobutadiene	11	120	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Hexachlorocyclopentadiene			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
Hexachloroethane			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Isophorone			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Nitrobenzene			96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
n-Nitroso-di-n-propylamine			480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
N-Nitrosodiphenylamine	28	40	96 U	38 U	230 U	110 U	19 U	87 U	59 U	200 U	120 U	NA	NA	NA	58 U	60 U	60 U
Pentachlorophenol[a]	360	690	480 U	190 U	1,200 U	550 U	96 U	440 U	300 U	980 U	580 U	NA	NA	NA	290 U	300 U	300 U
Phenol[a]	420	1,200	96 U	**440**	230 U	110 U	19 U	87 U	59 U	200 U	**130**	NA	NA	NA	58 U	60 U	60 U

a. SMS based on dry weight concentration.
b. MTCA Method A soil cleanup level for unrestricted use.
J = Concentration is less than the reporting limit.
U = Chemical not detected at concentration shown
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.
B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample
NJ = Detection of the analyte is not confirmed and the reported value is an estimate.
UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Concentration exceeds the SQS/LAET, MTCA
Concentration exceeds the CSL/2LAET

DT-8: Right-of-way catch basin sample results: Dry weight.

Lookup	RCB210-051909 36	RCB211-052609 38	RCB212-052609 40	RCB213-052709 42	RCB214-052709 44	RCB215-052809 46	RCB216-052809 48	RCB217-060209 50	RCB218-060209 52	RCB219-060209 54	RCB220-060209 56	RCB221-060309 58	RCB222-060309 60	RCB223-060309 62	CB202-052009 64	CB205-052709 66
Sample ID	**RCB210**	**RCB211**	**RCB212**	**RCB213**	**RCB214**	**RCB215**	**RCB216**	**RCB217**	**RCB218**	**RCB219**	**RCB220**	**RCB221**	**RCB222**	**RCB223**	**CB202**	**CB205**
Lab Ref	OZ57	PA21	PA21	PA42	PA42	PA57	PA57	PA98	PA98	PB04	PB04	PB20	PB20	PB20	OZ76	PA42
Sample Type[c]	CB	CB	CB	CB	CB	CB	CB	CB	Dirt	CB	CB	CB	CB	CB	CB	CB
Outfall	16th Ave S bridge (west)	S Brighton CSO/SD	S Brighton SD	7th Ave S SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	SW Idaho St SD	SW Idaho St SD	S96th St SD	S 96th St SD	7th Ave S SD	S River St SD	S River St SD
Date	05/19/09	05/26/09	05/26/09	05/27/09	05/27/09	05/28/09	05/28/09	06/02/09	06/02/09	06/02/09	06/02/09	06/03/09	06/03/09	06/03/09	05/20/09	05/27/09
Total solids (%)	49.2	59.3	59.2	74.1	74.2	78.1	78.4	44.2	97.9	72.2	73.5	85.6	76.3	63.1	60.9	62.6
Metals (mg/kg DW)																
Arsenic	**20** J	**23** J	**21** J	**17** J	**15** J	7 UJ	**6** J	**3** J	**7.4** J	**9** J	**8** J	**9** J	**8** J	**11** J	**32** J	**27** J
Copper	**228** J	**230** J	**186** J	**127** J	**98** J	**78** J	**69.5** J	**183** J	**124** J	**25.1** J	**23.6** J	**39.6** J	**26.2** J	**48.8** J	**106** J	**94.8** J
Lead	**104** J	**170** J	**183** J	**116** J	**91** J	**59** J	**43** J	**1,300** J	**433** J	**20** J	**7** J	**9** J	**20** J	**25** J	**49** J	**44** J
Mercury	**0.06** J	**0.13** J	**0.13** J	**0.09** J	**0.08** J	**0.08** J	**0.03** J	**2.20** J	**0.28** J	0.03 UJ	0.03 UJ	0.02 UJ	0.02 UJ	**0.07** J	**0.04** J	**0.04** J
Zinc	**916** J	**938** J	**949** J	**249** J	**230** J	**721** J	**510** J	**495** J	**356** J	**80** J	**58** J	**75** J	**231** J	**214** J	**413** J	**346** J
Total petroleum hydrocarb																
TPH -diesel	**590**	**3,000**	**4,800**	**840**	**700**	**1,000**	**1,200**	**2,000**	**780**	**150**	**160**	57 U	61 U	**100**	**640**	**910**
TPH-oil	**3,500**	**13,000**	**20,000**	**4,000**	**3,600**	**4,600**	**4,800**	**5,400**	**3,000**	**980**	**940**	110 U	120 U	**510**	**2,800**	**4,700**
LPAH (ug/kg DW)																
Acenaphthene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Acenaphthylene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Anthracene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	**120**	**91** J
Fluorene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	**77** J	180 U
Naphthalene	230 U	**180** J	**210** J	160 U	140 U	210 U	220 U	**45** J	59 U	66 U	**34** J	19 U	19 U	39 U	120 U	180 U
Phenanthrene	**530**	**740**	**880**	**210**	**120** J	**560**	**520**	**270**	**140**	**62** J	**45** J	**14** J	**18** J	**54**	**610**	**490**
Total LPAH	**530**	**920** J	**1,090** J	**210**	**120** J	**560**	**520**	**315** J	**140**	**62** J	**79** J	**14** J	**18** J	**54**	**807** J	**581** J
HPAH (ug/kg DW)																
Benzo(a)anthracene	**190** J	**400**	**440**	**130** J	**120** J	**420**	**350**	**85** J	**100**	**50** J	**35** J	19 U	**14** J	**65**	**320**	**360**
Benzo(a)pyrene	**160** J	**360**	**380**	**140** J	**120** J	**360**	**330**	**84** J	**110**	**58** J	**50** J	19 U	**17** J	**85**	**230**	**340**
Benzo(b)fluoranthene	**310**	**500**	**610**	**180**	**150**	**380**	**360**	**130**	**140**	**85** J	**88** J	19 U	**26**	**100**	**250**	**470**
Benzo(g,h,i)perylene	**130** J	**360**	**380** J	**82** J	**72** J	**220**	**190** J	89 U	**66**	**60** J	**52** J	19 U	19 U	**41**	**160**	**200**
Benzo(k)fluoranthene	**210** J	**500**	**610**	**180**	**150**	**380**	**250**	**120**	**140**	**85** J	**88** J	19 U	**20**	**100**	**250**	**420**
Chrysene	**500**	**1,200**	**1,400**	**380**	**320**	**990**	**860**	**190**	**200**	**130** J	**120** J	**10** J	**23**	**110**	**530**	**740**
Dibenz(a,h)anthracene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Fluoranthene	**1,100**	**1,600**	**2,400**	**640**	**320**	**860**	**730**	**420**	**370**	**120** J	**92** J	**18** J	**42**	**150**	**980**	**1,200**
Indeno(1,2,3-cd)pyrene	230 U	**180** J	**220** J	160 U	140 U	**140** J	220 U	89 U	**37** J	**49** J	**34** J	19 U	19 U	**32** J	**120** J	**130** J
Pyrene	**730**	**1,100**	**1,700**	**430**	**290**	**980**	**820**	**270**	**140**	**77** J	**61** J	**14** J	**29**	**110**	**860**	**870**
Total HPAH	**3,330** J	**6,200** J	**8,140** J	**2,162** J	**1,542** J	**4,730** J	**3,890** J	**1,299** J	**1,303** J	**714** J	**620** J	**42** J	**171** J	**793** J	**3,700** J	**4,730** J
Phthalates (ug/kg dw)																
Bis(2-ethylhexyl)phthalate	**3,600**	**24,000**	**38,000**	**2,200**	**2,600**	**9,400**	**4,600**	**10,000**	**4,800**	**620** J	**780** J	**24**	**300**	**200**	**2,800**	**7,400**
Butylbenzylphthalate	**420**	**3,000**	**5,000**	**220**	**390**	**200** J	**160** J	**1,000**	**310**	66 U	58 U	19 U	19 U	**170**	**150**	**170** J
Diethylphthalate	230 U	310 U	380 U	160 U	140 U	**200** J	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Dimethylphthalate	**190** J	310 U	380 U	**400**	**180**	210 U	220 U	**150**	**57** J	66 U	**60** J	19 U	19 U	39 U	**120** J	**160** J
Di-n-butylphthalate	**370**	**630**	**970**	160 U	140 U	**160** J	**530**	**11,000**	**4,200**	66 U	58 U	19 U	19 U	39 U	**81** J	180 U
Di-n-octyl phthalate	**120** J	**2,900**	**4,800**	**340**	**200**	**1,300**	**200** J	**400** J	**1,300**	**85** J	**100** J	19 U	**31**	**29** J	**150**	**270**
PCBs (ug/kg dw)																
Aroclor 1016	20 U	96 U	99 U	20 U	20 U	20 U	20 U	42 U	19 U	20 U	20 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1221	20 U	96 U	99 U	20 U	20 U	20 U	20 U	42 U	19 U	20 U	20 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1232	20 U	96 U	99 U	20 U	20 U	20 U	20 U	42 U	19 U	20 U	20 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1242	20 U	96 U	99 U	**110**	**87**	20 U	20 U	42 U	19 U	20 U	20 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1248	20 U	**180**	**210**	20 U	20 U	20 U	20 U	**100** J	**360**	20 U	20 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1254	**84**	**180**	**240**	**76**	**55**	**37**	**24**	**210**	**550** J	20 U	20 U	19 U	19 U	19 U	**32**	**34**
Aroclor 1260	**180**	**110**	**150** J	**65**	**53**	**57**	**53**	**81**	**200**	20 U	20 U	19 U	19 U	**20**	**22**	**22**
Total PCBs	**264**	**470**	**600** J	**251**	**195**	**94**	**77**	**391** J	**1,110** J	20 U	20 U	19 U	19 U	**20**	**54**	**56**
Other organic compounds																
1,2,4-Trichlorobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
1,2-Dichlorobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
1,3-Dichlorobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
1,4-Dichlorobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
1-Methylnaphthalene																
2,2'-Oxybis(1-chloropropane)	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
2,4,5-Trichlorophenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2,4,6-Trichlorophenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2,4-Dichlorophenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2,4-Dimethylphenol[a]	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U

DT-8: Right-of-way catch basin sample results: Dry weight.

Lookup RCB210-051909 36 RCB211-052609 38 RCB212-052609 40 RCB213-052709 42 RCB214-052709 44 RCB215-052809 46 RCB216-052809 48 RCB217-060209 50 RCB218-060209 52 RCB219-060209 54 RCB220-060209 56 RCB221-060309 58 RCB222-060309 60 RCB223-060309 62 CB202-052009 64 CB205-052709 66

Sample ID	**RCB210**	**RCB211**	**RCB212**	**RCB213**	**RCB214**	**RCB215**	**RCB216**	**RCB217**	**RCB218**	**RCB219**	**RCB220**	**RCB221**	**RCB222**	**RCB223**	**CB202**	**CB205**
Lab Ref	OZ57	PA21	PA21	PA42	PA42	PA57	PA57	PA98	PA98	PB04	PB04	PB20	PB20	PB20	OZ76	PA42
Sample Type[c]	CB	CB	CB	CB	CB	CB	CB	CB	Dirt	CB	CB	CB	CB	CB	CB	CB
Outfall	16th Ave S bridge (west)	S Brighton CSO/SD	S Brighton SD	7th Ave S SD	7th Ave S SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	Diagonal Ave S CSO/SD	SW Idaho St SD	SW Idaho St SD	S96th St SD	S 96th St SD	7th Ave S SD	S River St SD	S River St SD
Date	05/19/09	05/26/09	05/26/09	05/27/09	05/27/09	05/28/09	05/28/09	06/02/09	06/02/09	06/02/09	06/02/09	06/03/09	06/03/09	06/03/09	05/20/09	05/27/09
Total solids (%)	49.2	59.3	59.2	74.1	74.2	78.1	78.4	44.2	97.9	72.2	73.5	85.6	76.3	63.1	60.9	62.6
2,4-Dinitrophenol	2,300 U	3,100 U	3,800 U	1,600 U	1,400 U	2,100 U	2,200 U	890 U	590 U	660 U	580 U	190 U	190 U	390 U	1,200 U	1,800 U
2,4-Dinitrotoluene	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2,6-Dinitrotoluene	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2-Chloronaphthalene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
2-Chlorophenol	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
2-Methylnaphthalene	230 U	**220** J	**500**	160 U	140 U	**140** J	**120** J	**65** J	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
2-Methylphenol[a]	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
2-Nitroaniline	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
2-Nitrophenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
3,3'-Dichlorobenzidine	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
3-Nitroaniline	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
4,6-Dinitro-2-methylphenol	2,300 U	3,100 U	3,800 U	1,600 U	1,400 U	2,100 U	2,200 U	890 U	590 U	660 U	580 U	190 U	190 U	390 U	1,200 U	1,800 U
4-Bromophenyl-phenylether	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
4-Chloro-3-methylphenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
4-Chloroaniline	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
4-Chlorophenyl-phenylether	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
4-Methylphenol[a]	**530**	310 U	**540**	160 U	100 J	**1,800**	**1,600**	**4,300**	59 U	**1,400** J	**1,700** J	19 U	19 U	39 U	**620**	**240**
4-Nitroaniline	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
4-Nitrophenol	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
Benzoic acid[a]	2,300 U	3,100 U	3,800 U	1,600 U	1,400 U	2,100 U	2,200 U	**780** J	590 U	660 U	580 U	190 U	190 U	390 U	1,200 U	1,800 U
Benzyl alcohol[a]	**620**	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	22 NJ	39 U	120 U	180 U
bis(2-Chloroethoxy) methane	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Bis-(2-chloroethyl) ether	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Carbazole	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	74 J	180 U
Dibenzofuran	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Hexachlorobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Hexachlorobutadiene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Hexachlorocyclopentadiene	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
Hexachloroethane	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Isophorone	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Nitrobenzene	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
n-Nitroso-di-n-propylamine	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
N-Nitrosodiphenylamine	230 U	310 U	380 U	160 U	140 U	210 U	220 U	89 U	59 U	66 U	58 U	19 U	19 U	39 U	120 U	180 U
Pentachlorophenol[a]	1,200 U	1,500 U	1,900 U	790 U	700 U	1,000 U	1,100 U	440 U	300 U	330 U	290 U	95 U	95 U	200 U	590 U	910 U
Phenol[a]	230 U	310 U	380 U	160 U	140 U	210 U	220 U	**120**	**56** J	**45** J	**64** J	19 U	19 U	39 U	120 U	180 U

a. SMS based on dry weight concentration.

b. MTCA Method A soil cleanup level for unrestricted use.

c. CB = catch basin sediment; dirt = street dirt

Concentration exceeds the SQS/LAET, MTCA

Concentration exceeds the CSL/2LAET

J = Concentration is less than the reporting limit.

U = Chemical not detected at concentration shown

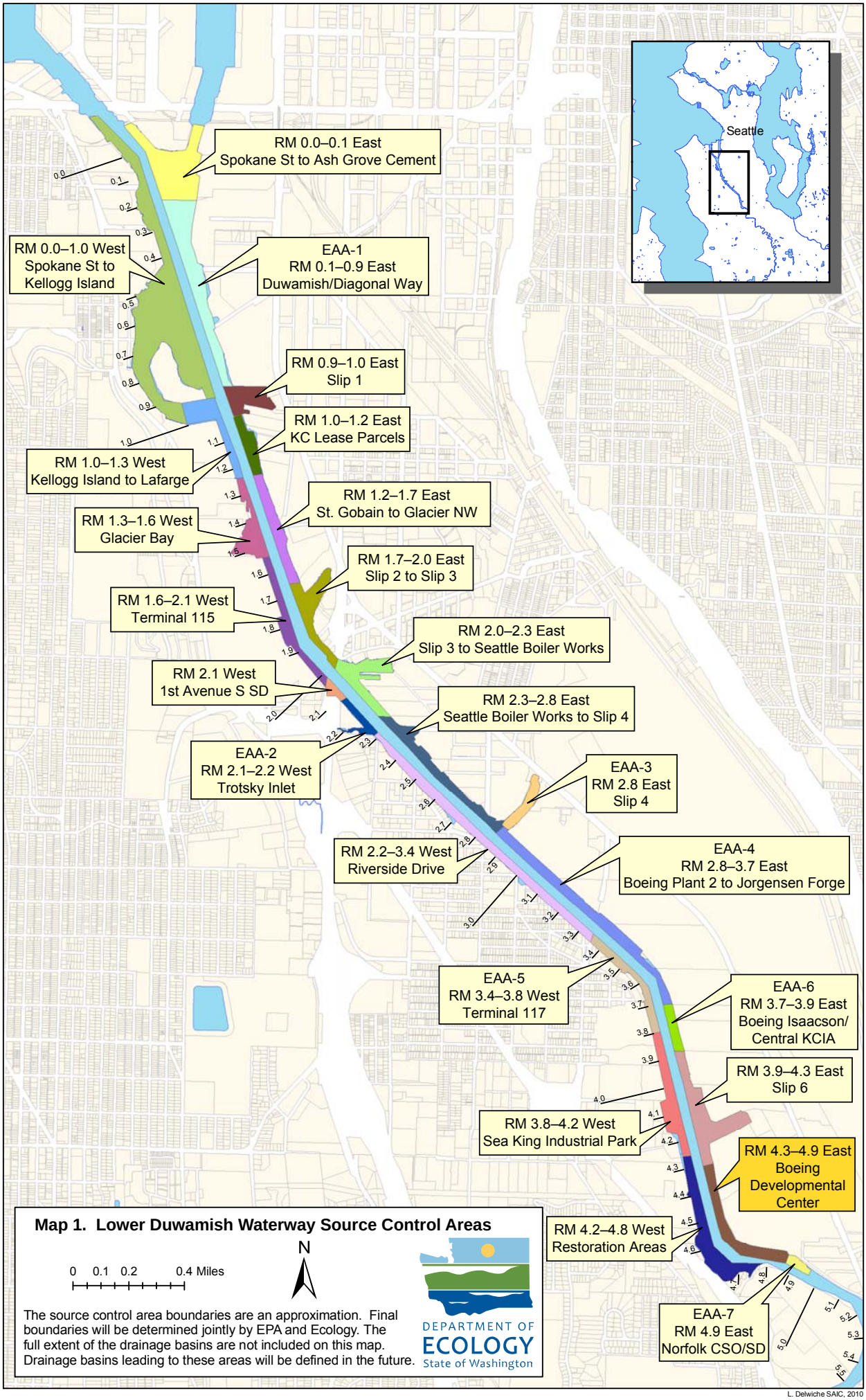
Y = Chemical not detected at concentration shown. Reporting limit raised due to background interference.

B = Analyte detected in associated method blank at concentration >5% of 1) the reporting limit, 2) the regulatory limit, or 3) the analyte concentration in the sample

NJ = Detection of the analyte is not confirmed and the reported value is an estimate.

UJ = Analyte is not detected at the reporting limit and the reporting limit is an estimated value

Maps


Seattle
RM 0.0–0.1 East
Spokane St to Ash Grove Cement
RM 0.0–1.0 West
Spokane St to
Kellogg Island
EAA-1
RM 0.1–0.9 East
Duwamish/Diagonal Way
RM 0.9–1.0 East
Slip 1
RM 1.0–1.2 East
KC Lease Parcels
RM 1.0–1.3 West
Kellogg Island to Lafarge
RM 1.2–1.7 East
St. Gobain to Glacier NW
RM 1.3–1.6 West
Glacier Bay
RM 1.7–2.0 East
Slip 2 to Slip 3
RM 1.6–2.1 West
Terminal 115
RM 2.0–2.3 East
Slip 3 to Seattle Boiler Works
RM 2.1 West
1st Avenue S SD
RM 2.3–2.8 East
Seattle Boiler Works to Slip 4
EAA-2
RM 2.1–2.2 West
Trotsky Inlet
EAA-3
RM 2.8 East
Slip 4
RM 2.2–3.4 West
Riverside Drive
EAA-4
RM 2.8–3.7 East
Boeing Plant 2 to Jorgensen Forge
EAA-5
RM 3.4–3.8 West
Terminal 117
EAA-6
RM 3.7–3.9 East
Boeing Isaacson/
Central KCIA
RM 3.9–4.3 East
Slip 6
RM 3.8–4.2 West
Sea King Industrial Park
RM 4.3–4.9 East
Boeing
Developmental
Center
RM 4.2–4.8 West
Restoration Areas
EAA-7
RM 4.9 East
Norfolk CSO/SD
Map 1. Lower Duwamish Waterway Source Control Areas
N
0 0.1 0.2 0.4 Miles
The source control area boundaries are an approximation. Final boundaries will be determined jointly by EPA and Ecology. The full extent of the drainage basins are not included on this map. Drainage basins leading to these areas will be defined in the future.
DEPARTMENT OF
ECOLOGY
State of Washington
L. Delwiche SAIC, 2010

Lower Duwamish Waterway

Map 2

Lower Duwamish Study Area

Legend

Streets
- Arterials
- State Highway
- Interstate Freeway

Lower Duwamish surface drainage basin

Combined sewer service area

Streams
- Culvert
- Open Channel

Early action sites

0.5 0 0.5 Miles

Produced by the City of Seattle

Combined sewer service area = 20,000 ac
Storm drain basin = 9,000 ac

Elliott Bay

Harbor Island

Diagonal/Duwamish

Georgetown

Slip 4

River mile 2.2

King County Airport

Boeing Plant 2/Jorgensen

South Park

Terminal 117

River mile 3.8 (former Slip 5)

Seward Park

Lake Washington

Norfolk

Turning Basin

Puget Sound

E CHERRY ST
S JACKSON ST
SW ROXBURY ST
SW 116TH ST
S 112TH ST
SW 128TH ST
S 144TH ST
S BANGOR ST
S 128TH ST
1ST AV S
4TH AV S
6TH AV S
15TH AV S
BEACON AV S
50TH AV S
RAINIER AV S
E MARGINAL WY S
W MARGINAL WY SW
EAST MARGINAL WAY S
DELRIDGE WY SW
16TH AV SW
9TH AV SW
35TH AV SW
PACIFIC HY S
M L KING JR WAY S
M L KING JR WY S
AIRPORT WY S

Lower Duwamish Waterway

Map 3

Land Use

Legend

City limits

Land Use

- Commercial
- Industrial
- Single family residential
- Multi-family residential
- Schools
- Vacant
- Park/open space
- Government service

0.5 0 0.5 Miles

Produced by the City of Seattle

ldw_landuse.apr

Elliott Bay

Harbor Island

Lake Washington

Puget Sound

E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
S SPOKANE ST
SW HANFORD ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
SW 128TH ST
S 112TH ST
S MICHIGAN ST
E MARGINAL WY S
W MARGINAL WY S
AIRPORT WAY S
M L KING JR WY S
1ST AV S
4TH AV S
6TH AV S
15TH AV S
16TH AV SW
9TH AV SW
35TH AVE SW
DELRIDGE WAY SW
ALASKAN WY
BEACON AV S
50TH AV S
RAINIER AV S
PACIFIC HY S

Lower Duwamish Waterway

Map 4

Outfalls in the Lower Duwamish Waterway

SW Dakota St SD

S Nevada St SD

SW Idaho St SD

Diagonal Ave S CSO/SD

T115 CSO/SW Kenny St SD

Highland Park Wy SW SD

S River St SD

S Brighton CSO/SD

S Myrtle St SD

2nd Ave S SD

S Garden St SD

Georgetown Flume
North Boeing Field SD
KC Airport SD #3/PS 44 EOF-

7th Ave S SD

16th Ave S SD A
16th Ave S SD B

16th Ave Bridge (S side)

KCIA SD#2/PS 78 EOF

Duwamish substation#1

Duwamish substation #2

Norfolk CSO/SD/PS17 EOF

Legend

Streets
- Arterials
- State Highway
- Interstate Freeway

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County interceptor

City limits

Outfalls
- King County CSO/EOF
- City CSO/SD
- City/County CSO/SD
- CSO/EOF/SD-SPU/KC
- County storm drain
- City storm drain
- Private storm drain
- Unknown piped outfall
- WSDOT storm drain
- Port storm drain
- Seep
- Channel/ditch

Note: Labelled outfalls are city-owned or have contributions from city infrastructure.

0.2 0 0.2 Miles

Produced by the City of Seattle

Lower Duwamish Waterway

Map 5

Businesses Inspected (March 2003 through September 2010)

Legend

Streams
Culvert
Open channel

Combined sewer service area

Lower Duwamish surface drainage basin

Diagonal Ave S CSO/SD drainage basin

Slip 4 drainage basin

Slip 5 drainage basin

Slip 6 drainage basin

Norfolk CSO/EOF/SD drainage basin

S Nevada St SD basin

S Myrtle St SD basin

S Brighton CSO/SD basin

7th Ave S SD basin

SW Kenny St SD/T115 CSO drainage basin

2nd Ave S SD basin

T117 drainage basin

Highland Park Wy SW SD basin

1st Ave S SD (west) basin

SW Dakota St SD basin

SW Idaho St SD basin

City limit

July 2005 - September 2010 inspects

Screening visit
Full inspection
Follow-up inspection

March 2003 - June 2005 inspects

Screening visit
Full inspection
Follow-up inspection

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

ldw_bus_inspects_thru_10-10

Since 2003:
Completed 2,500 inspections at 1,275 businesses

Elliott Bay

Harbor Island

Lake Washington

Puget Sound

E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S 112TH ST
SW 128TH ST
S MICHIGAN ST
E MARGINAL WY
N MARGINAL WY S
AIRPORT WAY S
M L KING JR WY S
PACIFIC HY S
BEACON AV S
RAINIER AV S
1ST AV S
4TH AV S
6TH AV S
15TH AV S
50TH AV S
ALASKAN WY
DELRIDGE WAY SW
9TH AV SW
35TH AVE SW
16TH AV SW
1ST AV SW

Lower Duwamish Waterway
Map 6
Source Tracing Samples Collected through September 2010

Legend

Streams
- Culvert
- Open channel

- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
- S Myrtle St SD basin
- S Brighton CSO/SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin
- City limit

Samples
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

ldw_samples_thru_10-10.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound
E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
S SPOKANE ST
SW HANFORD ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S MICHIGAN ST
S 112TH ST
SW 128TH ST
1ST AV S
4TH AV S
6TH AV S
ALASKAN WY
15TH AV S
BEACON AV S
50TH AV S
RAINIER AV S
ML KING JR WY S
E MARGINAL WY
W MARGINAL WY S
AIRPORT WAY S
PACIFIC HY S
35TH AVE SW
DELRIDGE WAY SW
9TH AV SW
16TH AV SW
5
90

Lower Duwamish Waterway

Map 7

Sediment trap locations

Legend

- City limit
- Streams
  - Culvert
  - Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin
- Sediment trap

KCIAJ-ST1 relocated in 2009 after King County replumbed drainage system

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

samples_sedtraps.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound
E CHERRY ST
S JACKSON ST
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S MICHIGAN ST
S 112TH ST
SW 128TH ST
1ST AV S
4TH AV S
6TH AV S
ALASKAN WY
E MARGINAL WAY S
15TH AV S
BEACON AV S
M L KING JR WY S
RAINIER AV S
AIRPORT WAY S
W MARGINAL WY S
DELRIDGE WAY SW
9TH AV SW
16TH AV SW
PACIFIC HY S
5
90
509

ST6
ST5
ST3
ST2
ST7
ST1
ID-ST2
ID-ST1
ID-ST3
KN-ST1
SL4-T6
SL4-T5A
SL4-T4A
SL4-T3A
SL4-T2A
SL4-T5
SL4-T4
SL4-T3
SL4-T1
SL4-T2
HP-ST4
HP-ST6
1st-ST2
1st-ST1
7th-ST1
1st-ST3
7th-ST3
KCIAJ-ST1
KCIA2-ST1
KCIA2-ST1
7th-ST2
1st-ST7
96-ST3
96-ST2
96-ST1
HC-ST1
NST4
NST5
NST1
NST2
NST3

Lower Duwamish Waterway

Map 8

Source tracing samples in the Diagonal/Duwamish early action area

Legend

- Diagonal combined sewer service area
- Diagonal storm drainage basin
- LDW storm drainage basin

Utilities

- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Source tracing samples

Collected July 2005 -September 2010

- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005

- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

1000 0 1000 Feet

Produced by the City of Seattle

diag_samples.apr

Elliott Bay

Harbor Island

Lake Washington

E MADISON ST

E CHERRY ST

S JACKSON ST

S LANDER ST

S HANFORD ST

S SPOKANE ST

S MICHIGAN ST

ALASKAN WY

1ST AV S

4TH AV S

6TH AV S

15TH AV S

RAINIER AV S

BEACON AV S

50TH AV S

M'LKING JR WY S

See Map 9

RCB27 CB26 CB27B CB28 RCB26 CB26 CB27A CB30 RCB28 CB29

RCB6 RCB25 RCB23 CB5 CB106 CB10 RCB24 CB4 CB92 ST6 CB13 CB85 ROW24 RCB100 RCB10 RCB7 CB105 RCB8 CB136 CB107S CB107F CB7 CB83 RCB22 RCB9 RCB155 ST5 CB53B RCB30 RCB153 RCB126 CB111 CB110 CB112 CB15 CB38 ST3 MH8 RCB141 CB21 CB74 CB1 RCB11 RCB39 RCB41 CB161 CB12 CB32 MH232 RCB5 MH206 T8b RCB144 RCB2 CB25 CB139 CB3 RCB19 RCB40 CB160 CB138 RCB33 CB159 M1 RCB34 RCB21 CB23 CB24 RCB162 CB20 RCB3 CB16 CB22 RCB4 RCB224 RCB16 RCB20 CB11 CB18 CB8 RCB15 CB19 RCB156 CB100

Lower Duwamish Waterway

Map 9

Source tracing samples in the Diagonal /Duwamish early action area (lower subbasin) and vicinity

Legend

- Diagonal combined sewer service area
- Diagonal storm drainage basin
- LDW storm drainage basin

Source tracing samples

Collected July 2005 -September 2010

- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005

- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

N W E S

500 0 500 Feet

Produced by the City of Seattle

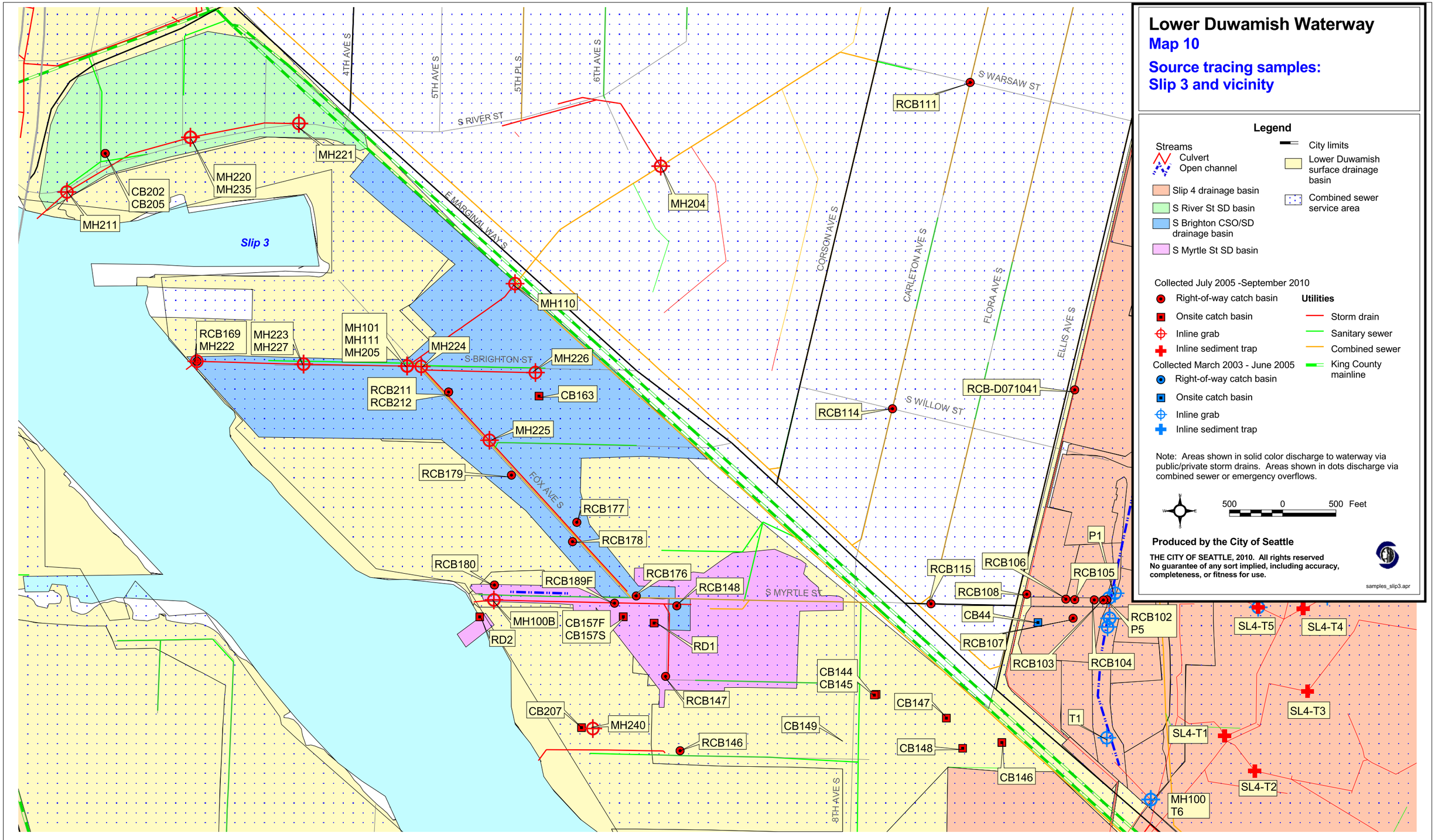
diag_samples2.apr

ST3 MH8 CB58 See Map 28 6TH AVE S S HORTON ST CB74 RCB141 CB117 RCB140 CB1 CB161 RCB39 MH232 1ST AVE S 4TH AVE S S SPOKANE ST ST2 CB12 CB9 RCB143 2ND AVE S RCB29 CB33 CB31 RCB12 CB120 CB119 RCB142 T8b RCB19 M5 MH234 ST7 MH233 T2A RCB17 CB121 MH12 M4 MH14 S INDUSTRIAL WAY MH206 S NEVADA ST T2b MH17 DIAGONAL AVE S MH19 MH21A T3a MH21C 5 RCB33 M3 MH210 4TH AVE S 6TH AVE S 7TH AVE S CB2 CB81 M1 ST1 MH15 1ST AVE S RCB35 MH207 RCB51 RCB13 RCB161 MH209 CB140 MHT6BX RCB217 RCB218 MH18 MH208 COLORADO AVE S UTAH AVE S RCB34 T6b MH231 MH236 RCB1 RCB206 RCB215 RCB216 RCB204 MH10 MH11 RCB36 RCB162 CB130 RCB160 RCB224 RCB205 RCB16 CB128 CB127 E MARGINAL WAY S CB11 RCB20 AIRPORT WAY S S DAWSON ST CB8 RCB15 S LUCILE ST

Lower Duwamish Waterway

Map 10

Source tracing samples: Slip 3 and vicinity



Legend

Streams
- Culvert
- Open channel

- Slip 4 drainage basin
- S River St SD basin
- S Brighton CSO/SD drainage basin
- S Myrtle St SD basin

- City limits
- Lower Duwamish surface drainage basin
- Combined sewer service area

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

samples_slip3.apr

Lower Duwamish Waterway

Map 11

Source tracing samples: Slip 4 early action area and vicinity

Legend

Streams
- Culvert
- Open channel

- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin

- City limits
- Lower Duwamish surface drainage basin
- Combined sewer service area

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

slip4_samples.apr

Insert

RCB105 RCB106 RCB102 P1 RCB104 RCB103 P5 T2 RCB107 P4

S JUNEAU ST
18TH AVE S
20TH AVE S
22ND AVE S
23RD AVE S
S ORCAS ST
RCB156
BAILEY ST ON RP
RCB31
S MICHIGAN ST
RCB113
RCB50
S ALBRO PL
S EDDY ST
RCB112
SL4-T6
CB87
CB88
S GRAHAM ST
RCB111
CB46
CB45
S WARSAW ST
RCB-D071039
T4
CB48
SL4-T5A
RCB-D071041
CORSON AVE S
S CARLETON AVE S
FLORA AVE S
ELLIS AVE S
S WILLOW ST
RCB114
T3
P2
SL4-T4A
RCB108
S MYRTLE ST
SL4-T5
SL4-T4
CB144
CB44
CB147
T1
SL4-T3
CB149
CB148
CB146
SL4-T2
8TH AVE S
CB37
S1
CB143
CB80
CB123
CB86
CB79
RCB49
E MARGINAL WAY S
MH213
MH214
RCB207
CB206
MH212
MH201
MH203
MH202
S KENYON ST
CB113
S ELMGROVE ST
S ROSE ST
10TH AVE S
16TH AVE S
RCB210
SD14
RCB181
SW1
S CLOVERDALE ST
RCB182
CB41A
RCB183
CB42
RCB184
RCB101
CB2-DAL
W MARGINAL WAY S
PortCB6
14TH AVE S
S HENDERSON ST
S DIRECTOR ST
T3
SL4-T4A
SL4-T3A
SL4-T2A
RCB56
CB40
KCIAJ-ST1
KCIA2-ST1
CB208
KCIA1-ST1
S MYRTLE ST
BEACON AVE S
32ND AVE S
RCB116
S AUSTIN ST
RCB118
S CHICAGO ST
S MONROE ST
AIRPORT WAY S
5

Lower Duwamish Waterway

Map 12

Source tracing samples: Norfolk early action area and vicinity

Legend

Streams
- Culvert
- Open channel

City limits

- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- Lower Duwamish surface drainage basin
- Combined sewer service area

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

samples_norfolk.apr

RCB56
SL4-T2A
CB40
RCB116
RCB118
KCIAJ-ST1
CB208
KCIA2-ST1
KCIA1-ST1
CB41B
CB84
RCB120
RCB119
CB82
RCB130
NST4
NST5
Norfolk20
MH7
Norfolk21
CB77
CB78
MH5
MH6
NST1
MH4
MH1
MH3
NST2
MH215
NST3
RCB123
RCB121
RCB122
RCB32
RCB124

S BRIGHTON ST
S WILLOW ST
S MYRTLE ST
BEACON AVE S
28TH AVE S
32ND AVE S
S WEBSTER ST
S AUSTIN ST
S PORTLAND ST
S KENYON ST
37TH AVE S
S THISTLE ST
S CLOVERDALE ST
S TRENTON ST
S BARTON ST
S 92ND PL
S 94TH PL
S 96TH PL
AIRPORT WAY S
EAST MARGINAL WAY S
S CAMBRIDGE ST
S PERRY ST
S NORFOLK ST
M L KING JR WAY S
51ST AVE S
S BOEING ACCESS RD
5

Lower Duwamish Waterway

Map 13

Source tracing samples: SW Idaho St storm drain and vicinity

Legend

Streams
- Culvert
- Open channel

- 2nd Ave S SD basin
- SW Idaho St SD basin
- Highland Park Wy SW SD basin
- Lower Duwamish surface drainage basin
- Combined sewer service area
- SW Dakota St SD basin
- SW Kenny St SD/T115 CSO drainage basin

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

samples_idaho.apr

SW SPOKANE ST
SW CHARLESTOWN ST
SW ANDOVER ST
SW GENESEE ST
SW DAKOTA ST
SW IDAHO ST
SW BRANDON ST
SW JUNEAU ST
SW GRAHAM ST
SW HOLLY ST
SW MYRTLE ST
SW MICHIGAN ST
16TH AVE SW
23RD AVE SW
21ST AVE SW
19TH AVE SW
18TH AVE SW
17TH AVE SW
W MARGINAL WAY SW
HIGHLAND PARK WAY SW
1ST AVE S
Harbor Island
Kellogg Island
Slip 1
Slip 2
Slip 3
RCB185
RCB200a
RCB43
CB41C
CB49
CB52
ID-ST2
CB50
CB51
CB138
CB3
CB139
M1
CB204
CB203
ID-ST1
ID-ST3
MH237
MH238
RCB219
RCB220
MH237
MH238
CB101
CB8
CH-N
CB102
CB93
CH-E
RCB52
CB142
CB103
CB104
CB96
CB95
RCB53
KN-ST1
RCB54
RCB55
CB91
RCB158
MH220
MH235
MH221
CB202
CB205
MH211
RCB169
MH222
HP-ST6
HP-ST4
MH223
MH227

Lower Duwamish Waterway

Map 14

Source tracing samples: 1st Ave S (west) and vicinity

Legend

Streams
- Culvert
- Open channel

City limit

- 2nd Ave S SD basin
- 7th Ave S SD basin
- 1st Ave S SD (west) basin
- Highland Park Wy SW SD basin
- Lower Duwamish surface drainage basin
- Combined sewer service area

Source tracing samples

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

samples_highland.apr

RCB54 KN-ST1 RCB55 CB91 HP-ST4 HP-ST6 CB150 1st-ST2 1st-ST1 1st-ST5 1st-ST3 CB158 MH218 MH219 MH216 MH217 RCB159 RCB152 RCB131 MH230 RCB157 1st-ST7 RCB137 7th-ST2 96-ST1 RCB221 7th-ST1 RCB165 CB154 CB206 CB137 RCB170 CB113 RCB132 RCB213 RCB214 MH228 MH229 7th-ST3 MH22 RCB154 RCB223 RCB154 CB129 CB114 RCB136 RCB222 MH239

Slip 2 Slip 3

SW MICHIGAN ST S MICHIGAN ST SW HOLDEN ST S HOLDEN ST S PORTLAND ST S CHICAGO ST SW KENYON ST S KENYON ST SW CLOVERDALE ST S CLOVERDALE ST S DONOVAN ST SW TRENTON ST S TRENTON ST S DIRECTOR ST SW CAMBRIDGE ST S 96TH ST ROSE ST W MARGINAL WY S

HIGHLAND PARK WAY SW 13TH AVE SW 11TH AVE SW 9TH AVE SW 8TH AVE SW 6TH AVE SW 4TH AVE SW 4TH AVE SW 3RD AVE SW OLSON PL SW 1ST AVE S 2ND AVE SW 2ND AVE S 1ST AV S BR OCCIDENTAL AVE S 5TH AVE S 3RD AVE S 7TH AVE S 8TH AVE S 10TH AVE S 8TH AVE S MYERS WAY S

509

Lower Duwamish Waterway

Map 15

Source tracing samples: 2nd Ave S and 7th Ave S drainage basins and vicinity

Legend

Streams
- Culvert
- Open channel

City limit

- 2nd Ave S SD basin
- 7th Ave S SD basin
- 1st Ave S SD (west) basin
- Lower Duwamish surface drainage basin
- Combined sewer service area

Source tracing samples

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

500 0 500 Feet

Produced by the City of Seattle

samples_trotsky.apr

CB108 RCB128 RCB45 RCB200b RCB109 RCB190 RCB202 CB150 RCB201 RCB203 1st-ST2 1st-ST1 RCB139 RCB110 RCB44 CB116 RCB129 MH20 7th-ST1 RCB175 1st-ST5 MH230 CB154 MH218 MH219 RCB165 CB158 CB137 RCB170 MH216 MH217 RCB159 RCB213 RCB214 MH228 MH229 RCB132 MH22 7th-ST3 RCB210 SD14 RCB181 RCB182 RCB131 RCB183 RCB184 RCB157 RCB154 CB129 RCB223 1st-ST7 RCB137 7th-ST2 CB114 RCB136 RCB222 96-ST1 MH239 RCB221

2ND AVE S · S AUSTIN ST · S HOLDEN ST · S PORTLAND ST · S CHICAGO ST · S KENYON ST · S MONROE ST · S ELMGROVE ST · OCCIDENTAL AVE S · 509 · 5TH AVE S · 8TH AVE S · 10TH AVE S · S ROSE ST · S THISTLE ST · S SULLIVAN ST · S CLOVERDALE ST · S DONOVAN ST · S TRENTON ST · W MARGINAL WY S · 1ST AVE S · 3RD AVE S · 7TH AVE S · 14TH AVE S · S HENDERSON ST · S DIRECTOR ST · OLSON PL SW · S BARTON ST · S CAMBRIDGE ST · S 96TH ST · 8TH AVE S · DES MOINES MEMORIAL

Lower Duwamish Waterway

Map 16

Source tracing samples: S 96th St SD and Hamm Creek drainage basins and vicinity

Legend

Streams
- Culvert
- Open channel

City limit

- S96th St SD basin
- 7th Ave S SD basin
- Hamm Creek basin
- Lower Duwamish surface drainage basin
- Combined sewer service area

Source tracing samples

Collected July 2005 -September 2010
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Collected March 2003 - June 2005
- Right-of-way catch basin
- Onsite catch basin
- Inline grab
- Inline sediment trap

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

200 0 200 400 Feet

Produced by the City of Seattle

samples_96-hamm.apr

RCB210
SD14
RCB181
RCB182
SW1
RCB183
CB42
RCB184
CB129
RCB154
RCB223
CB114
RCB136
96-ST3
96-ST2
MH239
RCB221
HC-ST1

S THISTLE ST
S SULLIVAN ST
S CLOVERDALE ST
S DONOVAN ST
S TRENTON ST
S CONCORD ST
S HENDERSON ST
S DIRECTOR ST
S BARTON ST
S CAMBRIDGE ST
S 96TH ST
S 99TH ST
S 100TH ST
S 101ST ST
S 103RD ST
S 104TH ST
S.104TH ST

8TH AVE S
10TH AVE S
14TH AVE S
15TH AVE S
18TH AVE S
20TH AVE S

W MARGINAL WAY S
DES MOINES MEMORIAL DR

Lower Duwamish Waterway

Map 17
Source tracing samples through September 2010: Arsenic

Legend

- City limit
- Streams
  - Culvert
  - Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin

Arsenic (mg/kg dw)

- <57
- 58 - 93
- 94 - 186
- 187 - 500
- >500

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

As_dot_10-10.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound
CB58
CB130
CB207
CB95
CB104
MH211
MH220
MH235
MH223
MH227
SL4-T3
CB137
RCB159
KCIA2-ST1
MH5
E MADISON ST
E CHERRY ST
S JACKSON ST
RAINIER AV S
1ST AV S
4TH AV S
6TH AV S
ALASKAN WY
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
15TH AV S
BEACON AV S
50TH AV S
M L KING JR WY S
E MARGINAL WY
W MARGINAL WY S
AIRPORT WAY S
SW HOLDEN ST
9TH AV SW
DELRIDGE WAY SW
35TH AVE SW
SW ROXBURY ST
16TH AV SW
S 112TH ST
SW 128TH ST
PACIFIC HY S

Lower Duwamish Waterway

Map 18
Source tracing samples through September 2010: Mercury

Legend

- City limit
- Streams
  - Culvert
  - Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin

Mercury (mg/kg dw)

- <0.41
- 0.42 - 0.59
- 0.60 - 1.18
- 1.19 - 10
- >10

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

Hg_dot_10-10.apr

CB26
CB30
CB83
ST5
CB74
MH233
MH19
RCB217
MH208
ST1
CB130
CB11
CB20
CB16
CB19
CB97
MH204
CB163
MH226
CB48
T4
RD2
MH100B
SL4-T1
CB207
MH240
CB116
RCB175
CB116
CB206
RCB183
NST3

Elliott Bay
Harbor Island
Lake Washington
Puget Sound

E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
S SPOKANE ST
SW HANFORD ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S 112TH ST
SW 128TH ST
S MICHIGAN ST
E MARGINAL WY
W MARGINAL WY S
AIRPORT WAY S
M L KING JR WY S
PACIFIC HY S
RAINIER AV S
BEACON AV S
1ST AV S
4TH AV S
6TH AV S
15TH AV S
50TH AV S
ALASKAN WY
DELRIDGE WAY SW
9TH AV SW
16TH AV SW
35TH AVE SW

Lower Duwamish Waterway

Map 19
Source tracing samples through September 2010: total PCBs

Legend

- City limit
- Streams
- Culvert
- Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin

PCBs (ug/kg dw)

- <130
- 131 - 1,000
- 1,001 - 2,000
- 2,001 - 10,000
- >10,000

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

pcb_dot_10-10.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound

CB13
CB85
CB53B
CB73
CB76
TUL-CB3
RCBSTEV4
ST5
CB74
CB121
RCB218
T1
CB130
CB22
CB90
CB93
CH-N
CH-E
CB97
CB98
CB102
CB142
T4
RCB169
MH222
RD2
RCB180
MH100B
SL4-T5A
SL4-T4
CB40
CB207
MH240
CB206
KCIAJ-ST1
7th-ST1
T117

E MADISON ST
E CHERRY ST
S JACKSON ST
RAINIER AV S
1ST AV S
4TH AV S
6TH AV S
ALASKAN WY
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
AIRPORT WAY S
15TH AV S
BEACON AV S
S MICHIGAN ST
E MARGINAL WY S
W MARGINAL WY S
M L KING JR WY S
RAINIER AV S
SW HOLDEN ST
DELRIDGE WAY SW
35TH AVE SW
SW ROXBURY ST
16TH AV SW
S 112TH ST
SW 128TH ST
PACIFIC HY S

Lower Duwamish Waterway

Map 20
Source tracing samples through September 2010: HPAH

Legend

- City limit
- Streams
  - Culvert
  - Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin

HPAH (ug/kg dw)

- <12,000
- 12,001 - 17,000
- 17,001 - 34,000
- 34,001 - 200,000
- >200,000

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

hpah_dot_10-10.apr

Elliott Bay

Harbor Island

Lake Washington

Puget Sound

CB27B
CB26
CB10
T6
CB112
CB15
CB38
ST2
RCB17
CB119
RCB13
RCB1
CB130
ID-ST1
RCB53
KN-ST1
MH110
CB46
CB48
T4
CB91
SL4-T5A
SL4-T4A
SL4-T4/T5
SL4-T3A
SL4-T2A
CB207
MH240
CB123
CB40
CB100
RCB152
CB206
CB41A
CB42
KCIA1-ST1
CB84
CB82
CB78
MH4
CB34
CB35
CB36

E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
MICHIGAN ST
SW HOLDEN ST
SW ROXBURY ST
S 112TH ST
SW 128TH ST
1ST AV S
4TH AV S
6TH AV S
15TH AV S
50TH AV S
RAINIER AV S
BEACON AV S
ALASKAN WY
DELRIDGE WAY SW
9TH AV SW
16TH AV SW
35TH AVE SW
SW MARGINAL WY S
AIRPORT WAY S
M L KING JR WY S
PACIFIC HY S

Lower Duwamish Waterway

Map 21
Source tracing samples through September 2010: BEHP

Legend

- City limit
- Streams
  - Culvert
  - Open channel
- Combined sewer service area
- Lower Duwamish surface drainage basin
- Diagonal Ave S CSO/SD drainage basin
- Slip 4 drainage basin
- Slip 5 drainage basin
- Slip 6 drainage basin
- Norfolk CSO/EOF/SD drainage basin
- S Nevada St SD basin
  S Myrtle St SD basin
  S Brighton St SD basin
- 7th Ave S SD basin
- SW Kenny St SD/T115 CSO drainage basin
- 2nd Ave S SD basin
- T117 drainage basin
- Highland Park Wy SW SD basin
- 1st Ave S SD (west) basin
- SW Dakota St SD basin
- SW Idaho St SD basin

BEHP (ug/kg dw)

- <1,300
- 1,301 - 1,900
- 1,901 - 3,800
- 3,801 - 100,000
- >100,000

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

hpah_dot_10-10.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound
E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S MICHIGAN ST
S 112TH ST
SW 128TH ST
1ST AV S
4TH AV S
6TH AV S
15TH AV S
BEACON AV S
50TH AV S
M L KING JR WY S
RAINIER AV S
AIRPORT WAY S
W MARGINAL WY S
ALASKAN WY
DELRIDGE WAY SW
9TH AV SW
35TH AVE SW
16TH AV SW
PACIFIC HY S

Lower Duwamish Waterway

Map 22

Water quality complaints and spills through September 2010

Legend

Streams
Culvert
Open channel

Combined sewer service area

Lower Duwamish surface drainage basin

Diagonal Ave S CSO/SD drainage basin

Slip 4 drainage basin

Slip 5 drainage basin

Slip 6 drainage basin

Norfolk CSO/EOF/SD drainage basin

S Nevada St SD basin

S Myrtle St SD basin

S Brighton CSO/SD basin

7th Ave S SD basin

SW Kenny St SD/T115 CSO drainage basin

2nd Ave S SD basin

T117 drainage basin

Highland Park Wy SW SD basin

1st Ave S SD (west) basin

SW Dakota St SD basin

SW Idaho St SD basin

City limit

Water quality complaints (2005 through September 2010)

Spills (September 2007 through September 2010)

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

0.5 0 0.5 Miles

Produced by the City of Seattle

wqcomplaints_spills.apr

Elliott Bay
Harbor Island
Lake Washington
Puget Sound
E MADISON ST
E CHERRY ST
S JACKSON ST
S LANDER ST
SW HANFORD ST
S SPOKANE ST
SW GENESEE ST
SW HOLDEN ST
SW ROXBURY ST
S MICHIGAN ST
S 112TH ST
SW 128TH ST
1ST AV S
4TH AV S
6TH AV S
15TH AV S
50TH AV S
RAINIER AV S
BEACON AV S
M L KING JR WY S
AIRPORT WAY S
E MARGINAL WY S
W MARGINAL WY S
PACIFIC HY S
ALASKAN WY
35TH AVE SW
DELRIDGE WAY SW
9TH AV SW
16TH AV SW

Lower Duwamish Waterway

Map 23

Street sweeping pilot study test sites

Legend

Streets
- Arterials
- State Highway
- Interstate Freeway

Streams
- Culvert
- Open Channel

- Lower Duwamish surface drainage basin
- Combined sewer service area w/in Lower Duwamish
- Diagonal Ave S CSO/SD storm drain basin

0.5 0 0.5 Miles

Produced by the City of Seattle

Elliott Bay

Harbor Island

West Seattle

Diagonal

Southeast Seattle

Georgetown

Rainier Valley

Seward Park

Holly Park

King County Airport

Highland Park

South Park

Lake Washington

Puget Sound

E CHERRY ST

S JACKSON ST

SW 116TH ST

SW 128TH ST

S 112TH ST

E MARGINAL WY S

W MARGINAL WY SW

1ST AV S

4TH AV S

6TH AV S

15TH AV S

16TH AV SW

35TH AV SW

DELRIDGE WY SW

BEACON AV S

M L KING JR WY S

50TH AV S

RAINIER AV S

AIRPORT WY S

PACIFIC HY S

Lower Duwamish Waterway

Map 24

Combined sewer overflow locations in the Diagonal Ave S CSO/SD:

Legend

- Diagonal combined sewer service area
- Diagonal storm drainage basin
- LDW storm drainage basin

Utilities

- Storm drain
- Sanitary sewer
- Combined sewer
- King County mainline

Combined sewer overflows

- King County CSO
- Seattle CSO

Note: Areas shown in solid color discharge to waterway via public/private storm drains. Areas shown in dots discharge via combined sewer or emergency overflows.

N W E S

1000 0 1000 Feet

Produced by the City of Seattle

diag_samples.apr

Harbor Island

East Waterway

ALASKAN WY

1ST AV S

4TH AV S

6TH AV S

AIRPORT WAY S

S LANDER ST

S HANFORD ST

Hanford #1

5

S SPOKANE ST

111A

111B

111C

111D

111E

111F

111G

111H

BEACON AV S

15TH AV S

S MICHIGAN ST

Lower Duwamish Waterway

Map 25

Land use in Diagonal Ave S CSO/SD storm drain basin

Legend

City limits

Land Use

- Commercial
- Industrial
- Single family residential
- Multi-family residential
- Schools
- Vacant
- Park/open space
- Government service

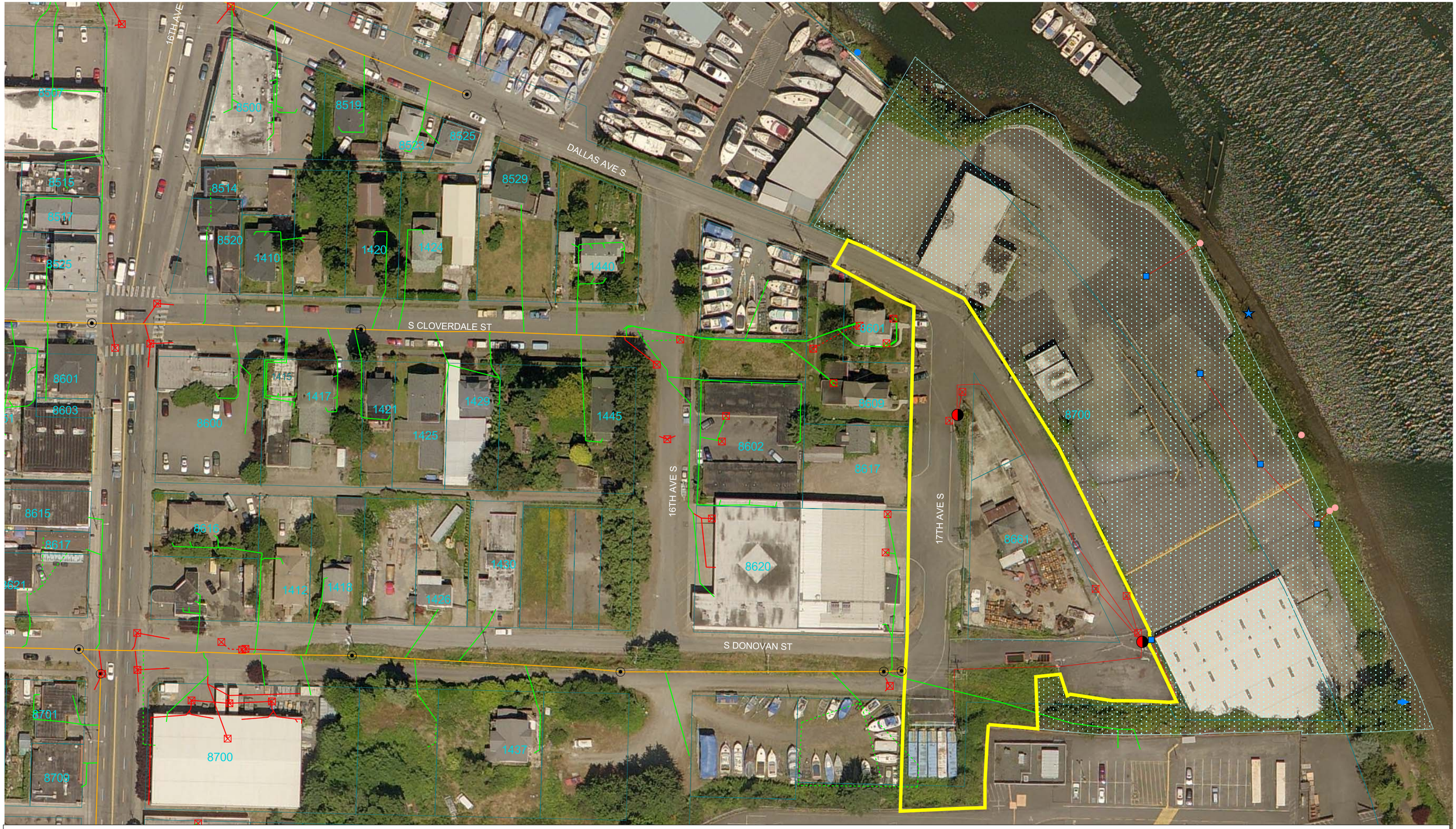
N W E S

1000 0 1000 Feet

Produced by the City of Seattle

diag_landuse.apr

E CHERRY ST
S JACKSON ST
S LANDER ST
S SPOKANE ST
S MICHIGAN ST
ALASKAN WY
1ST AV S
4TH AV S
6TH AV S
15TH AV S
RAINIER AV S
BEACON AV S
M L KING JR WY S
5
90
Lake Washington



Approximate boundaries street drainage basin

Approximate boundaries T117 drainage basin

Utilities

- Storm drain
- Sanitary sewer
- Combined sewer

Structures

- Catch Basin
- Catch Basin - Lg. Inlet
- Inlet (Street Drain)
- Sand Box
- Port catch basin
- Pump station

Outfalls

- Port storm drain
- Private storm drain
- Seep
- Ditch

N W E S

40 0 40 Feet

Lower Duwamish Waterway

Map 26

Terminal 117 and adjacent streets Drainage basins

SD14
120 NJ
160
16TH AVE S
DALLAS AVE S
140 NJ
530
RCB181
SD31
SD30A
S CLOVERDALE ST
SD11
RCB182
180 NJ
310
SD16
SD53
CB-1
CB-3
CB1-DAL
CB2-DAL
140 NJ
280
CB-4
CB-5
14TH AVE S
16TH AVE S
17TH AVE S
SD33
SD32
CB3-DAL
CB4-DAL
140 NJ
420
CB5-DAL
CB-6
RCB183
300 NJ
1,000
SD12
SD17
S DONOVAN ST
SD34
SD22
SD18
RCB184
280 U
340
SW1
280 NJ
340

Utilities
- Storm drain
- Sanitary sewer
- Combined sewer

Structures
- Catch Basin
- Catch Basin - Lg. Inlet
- Inlet (Street Drain)
- Sand Box
- Port catch basin
- Pump station

Outfalls
- Port storm drain
- Private storm drain
- Seep
- Ditch

Sampling locations
- Previous sampling locations
- March 2010 sampling locations
- 180 NJ 310 total PCBs (ug/kg dw)

N W E S

40 0 40 Feet

T117_drainage_system_pcbs.apr

Lower Duwamish Waterway

Map 27

Terminal 117 adjacent streets
March 2010 source tracing samples

Lower Duwamish Waterway

Map 28

Sample locations in S Myrtle St SD, S Garden St SD, and S Brighton St CSO/SD

Produced by the City of Seattle

Utilities

- Storm drain
- Sanitary sewer
- Combined sewer
- King County intercepter

Structures

- Maintenance hole
- Catch basin

Sample locations

- Onsite catch basin
- ROW catch basin
- Roof dirt
- Sediment trap
- Inline grab

N W E S

100 0 100 Feet